

UNDERGRADUATE

ACADEMIC CALENDAR 2019-2020



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Version 8

May 29, 2020

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COVID-19 Crisis

Under the authority delegated by Senate at a special meeting of Senate held on March 16, 2020, the following motions were approved by the Senate Executive Committee:

April 8, 2020:

THAT the Senate Executive Committee approve, on behalf of Senate, a further extension to the Voluntary Withdrawal deadline to May 10, 2020, for courses taught in the 2020 Winter Term, including spanned courses scheduled over the 2019 Fall - 2020 Winter Terms.

April 1, 2020:

THAT the Senate Executive Committee approve, on behalf of Senate, a revised Academic Schedule for the 2020 Summer Term (click for link to document). That the Senate Executive Committee approve, on behalf of Senate:

THAT, in addition to allowing students to choose whether or not to include a grade received for any course completed in the 2020 Winter Term in any Grade Point Average Calculation (previously approved, Senate Executive, March 25, 2020), students, with the exception of those enrolled in the Faculty of Law, be allowed to choose whether or not to receive a 'pass' or 'fail' grade instead of a letter grade (for Winter Term or spanned courses ending in April 2020). Credit will be granted for courses for which a 'pass' grade is granted; and

THAT a 'pass' grade will be available only if the original letter grade is 'D' or higher; and

THAT the 'pass' or 'fail' designation would appear on the transcript with a notation indicating the student made this selection owing to the difficult learning situation during the COVID-19 pandemic; and

THAT, in the event a student chooses to receive a 'pass' or 'fail' grade, no letter grade will be retained or associated with the student's performance in the course; and

THAT students will have until May 10, 2020 to declare to the Registrar's Office using a method put into place by that Office, if they choose to exercise an alternative grading option (either pass/fail option or to exclude a course grade from Grade Point Average calculations); and

THAT students' academic transcript as at May 10, 2020 will be used for the purposes of assessing any application for admission to a program at the University starting September 2020, or to determine eligibility to graduate in Spring 2020; and

THAT students who file a grade appeal, in accordance with the Final Examinations and Final Grades procedure, may elect a 'pass' or 'fail' grade categorization within seven (7) days of notification of the conclusion of their grade appeal; and

THAT regardless of any choice made with respect to course grading, students will remain obliged to meet all existing admission, prerequisite, progression, degree, and graduation policies and requirements that may apply to them.

That the Senate Executive Committee approve, on behalf of Senate, THAT alternative approaches to grading for 2020 Winter Term courses, will be restricted to those approved by Senate Executive as of April 1, 2020. That the Senate Executive Committee approve, on behalf of Senate:

THAT any failing grade received by a student in the 2020 Winter Term will be automatically excluded from all Grade Point Average calculations; and THAT such grades will be denoted on the transcript as having been excluded from Grade Point Average calculations; and

THAT, unless otherwise specified, this restriction will not apply to Grade Point Average calculations that are used for admission purposes.

THAT the Senate Executive Committee approve, on behalf of Senate, the waiver of Degree Exit Requirements, including Current CPR Level C and Emergency or Standard First Aid Certification requirements, for students graduating from the degree programs listed below following the 2020 Winter Term:

- Bachelor of Kinesiology
- Bachelor of Kinesiology – Athletic Therapy
- Bachelor of Physical Education
- Bachelor of Recreation Management and Community Development

THAT the Senate Executive Committee approve, on behalf of Senate, a revised admissions process for the Fall 2020 intake into the Doctor of Pharmacy (Pharm.D.) program; specifically, that the Critical Skills Essay will not be required and eligible applicants will be ranked for selection based on the following:

- Adjusted Grade Point Average (AGPA) weighted at 66 percent;
- Pharmacy College Admissions Test (PCAT®) weighted at 34 percent.

March 25, 2020:

THAT the Senate Executive Committee approve on behalf of Senate: THAT, for the 2020 Winter Term only, students will have the option to include or exclude a final course grade in calculating their Grade Point Average at the University. This option will apply to all courses using standard letter grades scheduled in the 2020 Winter Term or spanned courses scheduled over the 2019 Fall – 2020 Winter Terms; and

THAT students can opt to exclude a course grade following receipt of the final grade and can elect to do so on a course-by-course basis; and THAT grades excluded in the calculation of the Grade Point Average will not be used in calculating Grade Point Averages for the purpose of program progression and/or overall graduation Grade Point Average requirements; however, course grades will continue to be used to satisfy prerequisite requirements for entry into other courses and to satisfy any other program requirements; and

THAT grades will show on an official transcript but will be flagged (by an asterisk or something similar) with a notation that the course was excluded in the Grade Point Average calculation due to the COVID-19 response; and THAT grades, by default, will be included in the Grade Point Average; students must opt to exclude the course and inform the Registrar’s Office by May 15, 2020, to ensure that the course is removed from the Grade Point Average calculation; and

THAT Section 2.3 of the Grade Point Averages policy, be revised, for final term grades for the 2020 Winter Term only, as follows:

Section 2.3. The following rules apply in regards to calculating GPA at the University:

- (a) Standard letter grades (A+ to F) will be included in GPA calculations, unless a student opts to exclude a grade, and will be displayed on a Student’s Official Record in the Term they were completed.
- (b) When a Student repeats a course or takes an equivalent course or mutually exclusive course (for example, a course that may not be held for credit with the original course), all attempts at that course, with the exception of those courses students opted to have excluded, shall be used in the calculation of the TGPA and CGPA. Whether or not grades for repeated courses are used toward the DGPA will be subject to Faculty policy.
- (c) Grades not included in GPA calculations (for example: Pass/Fail, VW, AW) are displayed on a Student’s Official Record. This includes any standard letter grades where students opted to exclude in GPA calculations.
- (d) Courses completed from another institution by means of a Letter of Permission shall be used in the calculation of CGPA and DGPA, but shall not be used in the calculation of TGPA.
- (e) Courses completed by means of Challenge for Credit shall be used in the calculation of CGPA, DGPA, and TGPA.

THAT the Senate Executive Committee approve on behalf of Senate, the extension of:

- the deadline for the Election of Academic and Support Staff to Senate, to be completed and reported to the University Secretary by May 15, 2020; and
- where necessary, appointments of faculty and student members to Senate Committees, whose terms end on May 31, 2020, until such time that the Senate Committee on Nominations is able to make recommendations to Senate for new appointments; and

incumbent student Senators’ terms until such time as a successor is elected, where elections of student Senators have not been held by April 30, 2020.

THAT the Senate Executive Committee approve, on behalf of Senate, that all Juris Doctor (J.D.) courses offered by the Faculty of Law, including (i) spanned courses offered over the 2019 Fall and 2020 Winter Terms, including first-year courses, and (ii) 2020 Winter Term courses, be graded on a mandatory pass-fail basis. THAT the Senate Executive Committee approve, on behalf of

Senate, a four-month extension to the maximum time allowed for the completion of graduate degree requirements for all graduate students.

March 18, 2020:

THAT the Senate Executive Committee approve on behalf of Senate that registration for Summer Term courses (defined as courses offered May – August) be suspended indefinitely. THAT the Senate Executive Committee approve on behalf of Senate that Duo-lingo be approved as an acceptable test of English Language Proficiency (ELP) for the purposes of applying for admission for the Fall 2020 and Winter 2021 intakes. The proposed minimum acceptable test score is 115 which equates to approximately 7.0 on the IELTS test. THAT the Senate Executive Committee approve on behalf of Senate that section 2.5(a) of the Repeated Course Policy be suspended indefinitely. THAT the Senate Executive Committee approve on behalf of Senate that students not be required to provide medical notes in support of absences from class activities/requirements and from evaluations including final examinations. Students will be required to self-declare through an email note to an Advisor in the relevant faculty that they will be unable to meet their course obligations. This declaration will be treated as necessary and sufficient for the student to be afforded reasonable accommodation. THAT the Senate Executive Committee approve on behalf of Senate that no in-person final examinations be held for any courses offered in whole or in part in the Winter 2020 term, and that all assessments be completed by alternative means. Instructors will have the latitude and responsibility to adjust assessments as they deem most suitable and appropriate (e.g., online tests, take-home tests, new assignments, adjusted weightings of completed assessments, etc.) and to communicate these changes promptly to students and unit heads. The current exam period (April 13-25) will be maintained to provide a dedicated period within which online examinations may be scheduled. Faculty offices must consult with the Registrar's Office regarding any intention to offer a scheduled online final examination. THAT the Senate Executive Committee approve on behalf of Senate that no in-person instruction or assessment for any courses take place until at least September 1, 2020. All instruction will take place by alternate methods until at least September 1, 2020. THAT the Senate Executive Committee approve on behalf of Senate that summer courses (broadly defined as courses that were scheduled to take place between early May and the end of August) begin no earlier than June 1, 2020 and be completed no later than August 31, 2020. The Registrar's Office will be responsible for determining an academic schedule for this period. At this time, recognized Distance Education (DE designated) courses, already scheduled to commence in early May, are excluded from this recommendation.

Revised 2020 Summer Term Academic Schedule**Summer Term 2020 Distance Education courses (previously approved)**

Start May 4

End July 31

Last day to add/drop May 15

Last day to VW July 10

Exams August 4 - 11

Proposed schedule for new online courses – previously planned for on-campus**Summer Online & Alternate Delivery (3 credit hour courses)**

Start June 1

End August 14

Last day to add/drop June 12

Last day to VW July 27

Exams August 17 – 21

Summer Online & Alternate Delivery (6 credit hour courses)

Start June 1 End August 14
Last day to add/drop June 5
Last day to VW July 27
Exams August 17 – 21
Summer Condensed 1 (3 credit hour courses)
Start June 1
End July 3
Last day to add/drop June 5
Last day to VW June 26
Exams July 6 – 10
Summer Condensed 2 (3 credit hour courses)
Start July 13
End August 14
Last day to add/drop July 17
Last day to VW August 7
Exams August 17 – 21
Summer Standard (Master Re-Reg and Thesis, Co-op Work Terms, Clinical Placements)
Start May 4
End August 14
Summer Irregular 1 (scheduling in this term permitted by exception only)
Start April 27
End August 14
Summer Irregular 2 (scheduling in this term permitted by exception only)
Start June 29
End August 14

Additions to Anthropology Page 196

ANTH 2380 Art, Symbols, Cultures Cr. Hrs.3

Studies of the social contexts and functions of human artistic and symbolic behaviour in cross-cultural perspective. Students may not hold credit for both ANTH 2380 and ANTH 2381. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2430 Ecology, Technology and Society Cr. Hrs. 3

Ecological analysis of the interplay of socio-political and technological processes in different types of societies. Focus upon the ecological side-effects and selected technologies, economic mechanisms and political institutions. Students may not hold credit for both ANTH 2430 and ANTH 2500. May not be used for Major or Minor in Anthropology.

ANTH 2450 Ethnology of China Cr. Hrs. 3

Issues in the anthropological study of contemporary China will be introduced in comparative perspective. The emphasis will be on issues such as economic development, changing gender relations, population growth and migration, and the politics of culture. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2470 Anthropology of Mass Communication Cr. Hrs. 3

This course focuses on media production and dissemination and on images of the world created by media. Media practices and products are addressed in relation to the formation of social relations and identities, the shaping of peoples' sense of time and space, and media's role in the construction of communities and in processes of socio-economic and cultural change. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2500 Culture, Environment, and Technology Cr. Hrs. 3

Study of ecological systems, focusing on processes of adaptation in societies differing in organization and in views of technology. Demographic and technological changes are examined in relation to cultural, political and ideological factors. Students may not hold credit for both ANTH 2500 and ANTH 2430. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2510 Anthropology of Economic Systems Cr. Hrs. 3

A comparative study of factors bearing upon production, exchange, and consumption of goods, practices and ideas in varying social contexts. The course also examines the articulation of economic systems in the global political economy. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2530 Anthropology of Political Systems Cr. Hrs. 3

Analysis of political institutions and their changing nature in diverse societies and forms of society, with attention to authority, leadership, decision-making, power and its disguises, and forms of resistance. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2550 Culture and the Individual Cr. Hrs. 3

The study of the interrelations between life-cycle, psychological functioning and malfunctioning, and social and cultural institutions. Emphasis is placed on enculturation and life-cycle rituals. Students may not hold credit for both ANTH 2550 and ANTH 2551. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2560 Anthropology of Illness Cr. Hrs. 3

Comparative study of cultural factors involved in health/illness: concepts of disease and curing practices. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2570 Urban Anthropology Cr. Hrs. 3

Comparison of the processes of urbanization and various forms of urbanism, with attention to archaeological evidence and the emergence of urbanism and urbanization in developing nations.

Important Notice

The University of Manitoba reserves the right to make changes in the information contained in the Undergraduate Calendar and the Graduate Calendar without prior notice. The University of Manitoba web site, umanitoba.ca is a source for updated information.

Not every course listed in the Undergraduate Calendar or the Graduate Calendar will be offered in this academic year.

It is the responsibility of all students:

- To familiarize themselves each year with the university's academic regulations and policy in general;
- To familiarize themselves with the regulations and policies applying specifically to their faculty, school, or program;
- To familiarize themselves with the specific graduation requirements of the degree, diploma, or certificate they are seeking; and
- To ensure that the courses they have selected are appropriate to their programs.

In the event of an inconsistency between the general academic regulations and policies published in the Undergraduate Calendar and the Graduate Calendar, and such regulations and policies established by Senate and the councils of the faculties and schools, the version established by Senate and the councils of the faculties and schools shall prevail.

The regulations and policies contained in this year's editions of the Undergraduate Calendar and the Graduate Calendar apply, subject to change, only for the academic year indicated on the cover page of each publication.

The material in the current editions of the Undergraduate Calendar and the Graduate Calendar was submitted by the academic and administrative units concerned. The university neither represents nor warrants that all general information and course references used in these publications is accurate although reasonable efforts have been used to check the accuracy of the information.

Students also agree by the act of registration to be bound by the regulations, policies, and bylaws of the University of Manitoba that are in effect at the time of registration, including any amendments which may be enacted during the period of their registration. Students agree by the act of registration to be bound by the regulations, policies, and bylaws of the faculty or program in which they have registered, including any amendments which may be made during the period of their registration. Students also acknowledge that such amendments may have retroactive application.

No liability shall be incurred by the University of Manitoba for any loss or damage suffered or incurred by any student, or any party claiming through or under any student, as a result of delays in, or termination of, services, courses or classes by acts of God, fires, floods, riots, wars, strikes or lockouts, damage to university property, financial exigency, or any occurrence beyond the reasonable control of the university. Further, the University of Manitoba shall not be liable for any losses or damage suffered by a student who discloses his/her personal identification number (PIN) to anyone other than a university employee in the course of registration.

Freedom of information and protection of privacy act (FIPPA)

This personal information is being collected under the authority of The University of Manitoba Act. It will be used for the purposes of admission, registration, assessment of academic status, and communication with the student. It may be used for administrative research in support of provision

of education and general administration of the University. It may be disclosed to other educational institutions, government departments, and co-sponsoring organizations, and, for those students who are members of UMSU, it will be disclosed to the University of Manitoba Students' Union. Upon graduation, the student's name and address, together with information on degrees, diplomas, and certificates earned will be given to and maintained by the alumni records department in order to assist the University's advancement and development efforts. Information regarding graduation and awards may be made public. Personal information will not be used or disclosed for other purposes, unless permitted by The Freedom of Information and Protection of Privacy Act (FIPPA). If you have any questions about the collection of personal information, contact the Access and Privacy Office (tel. 204-474-9844), The University of Manitoba, 233 Elizabeth Dafoe Library, Winnipeg, Manitoba, Canada, R3T 2N2.

Disclosure of personal information to statistics Canada

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student. At any time, students who do not wish to have their information used are able to ask Statistics Canada to remove their identifying information from the national database. Further information on the use of this information can be obtained from Statistics Canada's website (statcan.gc.ca) or by writing to the Post-Secondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, Canada, K1A 0T6

About the University

About the University - <http://umanitoba.ca/about/>

University Administration - <http://umanitoba.ca/admin/>

Organizational Structure

Senior Administrative Officers

President and Vice-Chancellor

David T. Barnard, O.M., Ph.D., FRSC

Vice-President (Administration)

Lynn Zapshala-Kelln, B.Admin, CPA, CGA

Provost and Vice-President (Academic)

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Vice-President (Research)

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Affiliated, Member and Constituent Colleges

St. Andrew's College

Acting Principal: Very Rev. Fr. Roman Bozyk, B.A., M.Div., M.A., Ph.D.

Université de Saint-Boniface

Recteur: Gabor Csepregi, B.A., M.A., Ph.D. (Laval)

St. John's College

Warden and Vice-Chancellor: Chris Trott, Ph.D.

St. Paul's College

Rector: Christopher Adams, Ph.D.

Approved Teaching Centres

William and Catherine Booth College

Prairie Theatre Exchange

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Barber, D., B.P.E., MNRM (Manitoba), Ph.D. (Waterloo); **Bernstein, C.**, M.D. (Manitoba), FRCPC; **Brydon, D.**, B.A. (Hons), M.A. (Toronto), Ph.D. (Australian National), FRSC; **Cheng, S.**, B.Sc.(Tamkang), M.A., Ph.D. (Western); **Chochinov, H. M.**, O.M., M.D., Ph.D.(Man.), F.R.C.P.C., F.R.S.C., F.C.A.H.S.; **Dhalla, N.S.**, B.Sc.(Panjab), M.S. (Pennsylvania), Ph.D. (Pittsburgh); **Gole, A.M.**, B.Tech. (IIT Bombay), M.Sc., Ph.D.; **Greenfield, H.J.**, B.A., M.Phil., M.A., Ph.D. (City University of New York); **Jayas, D.S.**, B.Sc. (G.B.Pant), M.Sc. (Manitoba), Ph.D. (Saskatchewan), P.Ag., P.Eng.; **Judd, E.R.**, B.A. (Hons.)(Queen's), M.A., Ph.D. (Br.Col.), Diploma (Beijing Language Institute), Diploma (Fudan), F.R.S.C.; **McCance, D.C.**, Cert. Ed., M.A., Ph.D. (Manitoba); **Murphy, L.**, B.Sc. (Hons.) (University of Sydney); **Nickerson, P.**, B.Sc., M.D., FRCP (Manitoba); **Perkins, P.**, B.A. (Hons.) (Utah), M.A., Ph.D. (Dalhousie); **Perry, A.**, B.A. (Simon Fraser), M.A., Ph.D. (York); **Perry, R.P.**, B.A. (UBC), M.Sc., Ph.D. (Calgary); **Pierce, G.**, O.M., B.P.H.E. (Hons.) (Lakehead), M.Sc.(Dalhousie), Ph.D. (Manitoba); **Rockman-Greenberg, C.**, B.Sc. (Hons.), M.D. (McGill), CM, FRCPC, FCCMG; **Roos, L.**, A.B. (Stanford), Ph.D. (MIT); **Toles, G.**, B.A., M.A., Ph.D. (Virginia)

Distinguished Professors Emeritus

Anna, T.E., B.A., M.A., Ph.D. (Duke), F.R.S.C.; **Anthonisen, N.R.**, A.B. (Dartmouth), M.D. (Harvard), Ph.D. (McGill); **Berkes, F.**, B.Sc., Ph.D. (McGill); **Butler, M.**, B.Sc. (Hons.)(Birm.), M.Sc. (Wat), Ph.D. (King's College, London); **Chaturvedi, M.C.**, B.Sc. (Met.) (Banara), M.Met., Ph.D. (Sheffield), P.Eng.; **Cohen, H.**, B.Sc.(Hons.) (Manitoba), Sc.M. (Brown), Ph.D. (Minnesota); **Degner, L.F.**, B.N., M.A., Ph.D (Michigan); **Eales, J.G.**, B.A.(Hons.) (Oxford), M.Sc., Ph.D. (UBC), F.R.S.C.; **Friesen, G.**, B.A. (Saskatchewan), M.A., Ph.D. (Toronto); **Friesen, H.G.**, O.C., B.Sc. (Med.), M.D. (Manitoba), D.Sc. (Western Ontario), F.R.C.P.(C), F.R.S.C.; **Gibson, D.**, B.A., LL.B. (Manitoba), LL.M. (Harvard); **Gratzer, G.**, B.Sc., Ph.D., F.R.S.C.; **Hawthorne, F.C.**, O.C., B.Sc. (Spec.) (Imperial College), A.R.S.M. (Royal School of Mines, London), Ph.D. (McMaster), F.R.S.C., F.G.A.C., F.M.S.A.; **Holley, R.A.**, B.Sc., M.Sc. (McGill); **Ph.D. (Guelph);** **Klostermaier, K.K.**, D.Phil. (Gregorian), Ph.D. (Bombay); **Kroetsch, R.P.**, B.A. (Alberta), M.A. (Middlebury), P.S. (Iowa), F.R.S.C.; **Kwong, J.**, B.A. (Hong Kong), M.Ed. (Alberta), Ph.D. (Toronto); **Martin, G.**, B.A. (Colorado), M.A., Ph.D. (Arizona); **Morrish, A.H.**, F.R.S.C., B.Sc. (Hons.)(Manitoba), M.A. (Toronto), Ph.D. (Chicago); **Oleszkiewicz, J.A.**, M.Sc. (Wroclaw), M.Sc. (Vanderbilt), Ph.D., F.C.S.C.E.; **Page, J.H.**, B.Sc. (Hons.)(Dal.). D.Phil. (Oxf.); **Plummer, F.**, B.Sc. (Hons.), M.D. (Manitoba), F.R.C.P.C.; **Ronald, A.R.**, M.D., B.Sc., (Med.) (Manitoba); **Sehon, A.**, B.Sc., M.Sc., Ph.D., D.Sc. (Manchester), F.R.S.C.; **Shafai, L.**, B.Sc. (Tehran), M.Sc., Ph.D. (Toronto), F.R.S.C.; **Smil, V.**, M.S. (Prague), Ph.D. (Pennsylvania State), F.R.S.C.; **van Oers, W.T.H.**, Ph.D. (Amsterdam); **Wolfart, H.C.**, [B.A. equiv.] (Albert-Ludwigs-University, Freiburg im Breisgau), M.A. (Yale), M.A. (Cornell), M. Phil., Ph.D. (Yale), F.R.S.C.; **Younes, M.**, Ch.B., D.P.H. (Egypt), F.R.C.P., Ph.D.

Chancellors and Presidents Emeriti

Chancellors Emeriti

Mauro, A.V., O.C., Q.C., B.A., LL.B., LL.M., LL.D. (Manitoba), D.Comm. (Lakehead)

Presidents Emeriti

Naimark, A., B.Sc. (Med.), M.D. (Manitoba), M.Sc., (M.), LL.D., F.R.C.P.C., F.R.S.C.

Szathmáry, E.J.E. C.M., O.M., B.A. (Hons.), Ph.D., LL.D. (Toronto), D.Sc. (Western Ontario), D. Litt.S. (St. Michael's College), LL.D. (York), LL.D. (McMaster), LL.D. (Manitoba), LL.D. (Calgary), F.R.S.C.

Faculties/Schools and Departments

Note: Codes for Faculties/Schools, Departments are shown in brackets

| Faculties/Schools | Departments |
|--|--|
| Agricultural and Food Sciences (Faculty 07; School 24) | Agribusiness and Ageconomics (061) |
| | Animal Science (035) |
| | Biosystems Engineering (034) |
| | Textile Sciences (064) |
| | Entomology (038) |
| | Food Science (078) |
| | General Agriculture (065) |
| | Plant Science (039) |
| | Soil Science (040) |
| | Human Nutritional Science (030) |
| Architecture (09) | Architecture (050) |
| | Architecture Interdisciplinary / Design and Planning (166) |
| | City Planning (073) |
| | Environmental Design (079) |
| | Interior Design (051) |
| | Landscape Architecture (031) |
| Art (15) | Fine Arts (054) |
| Arts (01) | Anthropology (076) |
| | Arts Interdisciplinary (099) |
| | Asian Studies (150) |
| | Canadian Studies (151) |
| | Catholic Studies (160) |
| | Central and East European Studies (099S) |
| | Classics (003) |
| | Economics (018) |
| | English, Film, and Theatre (004) |
| | French, Spanish and Italian (044) |
| | German and Slavic Studies (008) |
| | Global Political Economy (157) |
| | History (011) |
| | Icelandic (012) |
| | Judaic Studies (055) |

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| | Labour Studies (153) |
| | Linguistics (126) |
| | Native Studies (032) |
| | Philosophy (015) |
| | Political Studies (019) |
| | Psychology (017) |
| | Religion (020) |
| | Sociology (077) |
| | Ukrainian Canadian Heritage Studies (155) |
| | Women's and Gender Studies (156) |
| Education (08) | Curriculum, Teaching and Learning (132) |
| | Educational Administration, Foundations and Psychology (129) |
| | Education Ph.D. (124) |
| Engineering (03) | Civil Engineering (023) |
| | Electrical and Computer Engineering (024) |
| | Engineering - Preliminary Year (130) |
| | Mechanical (025) |
| | Engineering (025) |
| Environment, Earth, and Resources, Clayton H. Riddell (028) | Geological Sciences (007) |
| | Environment and Geography (128) |
| | Environment, Earth, and Resources (177) |
| | Resource Management (056) |
| Extended Education (26) | |
| Graduate Studies (016) | Disability Studies (162) |
| | Graduate Studies (069) |
| | Mauro Centre for Peace Studies (170) |
| Health Sciences (29) | |
| | General Human Ecology (028) |
| | Health Sciences (173) |
| | Health Studies (173) |
| Dentistry (17) | Dental Diagnostic and Surgical Sciences (103) |
| | Dentistry (066) |
| | Oral Biology (100) |
| | Preventative Dental Science (101) |
| | Restorative Dentistry (102) |
| Dental Hygiene (20) | Dental Hygiene (070) |

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| Medicine (05) | Anaesthesia (096) |
| | Biochemistry and Medical Genetics (137) |
| | Community Health Sciences (093) |
| | Family Social Sciences (062) |
| | Human Anatomy and Cell Science (080) |
| | Immunology (072) |
| | Interdisciplinary Medicine (165) |
| | Medical Education (888) |
| | Medical Microbiology (097) |
| | Medicine (083) |
| | Pathology (088) |
| | Pharmacology (089) |
| | Psychiatry (091) |
| | Physiology (090) |
| | Surgery (094) |
| Nursing (13) | Nursing (049) |
| Pharmacy (11) | Pharmacy (046) |
| Rehabilitation Sciences (19) | Medical Rehabilitation (068) |
| | Occupational Therapy (168) |
| | Physical Therapy (167) |
| | Respiratory Therapy (169) |
| Kinesiology and Recreation Management (22) | Kinesiology (171) |
| | Physical Education (057)) |
| | Physical Education & Recreation Studies General (172) |
| | Recreation Studies (123) |
| Law (10) | Law (045) |
| Management, I. H. Asper School of Business (06) | Accounting and Finance (009) |
| | Actuarial Studies, Warren Centre (010) |
| | Business Administration (027) |
| | Interdisciplinary Management (098) |
| | Marketing (118) |
| | Supply Chain Management (164) |
| Music, Marcel A. Desautels (21) | Music (033) |
| Science (02) | Biological Sciences (071) |
| | Chemistry (002) |
| | Computer Science (074) |
| | Mathematics (136) |
| | Microbiology (060) |
| | Physics and Astronomy (016A) |

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| | Statistics (005) |
| Social Work (12) | Social Work (047) |
| University 1 (27) | |

Alphabetical Listing of Subjects

| Subject | Code | Faculty/School |
|-----------------------------------|------|--------------------------------|
| Accounting | ACC | Management |
| Actuarial Studies Warren Centre | ACT | Management |
| Agribusiness and Ageconomics | ABIZ | Agricultural and Food Sciences |
| Agroecology | AGEC | Agricultural and Food Sciences |
| Agriculture | AGRI | Agricultural and Food Sciences |
| Agriculture Diploma | DAGR | Agricultural and Food Sciences |
| American Sign Language | ASLL | Arts |
| Anatomy | ANAT | Medicine |
| Anesthesia | ANES | Medicine |
| Animal Science | ANSC | Agricultural and Food Sciences |
| Anthropology | ANTH | Arts |
| Applied Mathematics | AMAT | Science |
| Arabic | ARA | Arts |
| Architecture | ARCG | Architecture |
| Architecture Interdisciplinary | ARCH | Architecture |
| Arts Interdisciplinary | ARTS | Arts |
| Asian Studies | ASIA | Arts |
| Astronomy | ASTR | Science |
| Biochemistry and Medical Genetics | BGEN | Medicine |
| Biological Sciences | BIOL | Science |
| Biosystems Engineering | BIOE | Agricultural and Food Sciences |
| Biomedical Engineering | BME | Engineering |
| Biotechnology | BTEC | Science |
| Canadian Studies | CDN | Arts |
| Catholic Studies | CATH | Arts |
| Chemistry | CHEM | Science |
| City Planning | CITY | Architecture |
| Civil Engineering | CIVL | Engineering |

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|--|------|-----------------------------------|
| Classics | CLAS | Arts |
| Community Health Sciences | CHSC | Medicine |
| Computer Science | COMP | Science |
| Dental Diagnostic and Surgical | DDSS | Dentistry |
| Dental Hygiene | HYGN | Dental Hygiene |
| Dentistry | DENT | Dentistry |
| Diagnostic Cytology | CYTO | Medical Rehabilitation |
| Diploma in Agriculture | AGRI | Agricultural and Food Sciences |
| Disability Studies | DS | Disability Studies |
| Economics | ECON | Arts |
| Education Ph.D. | EDUC | Education |
| Educational Administration, Foundations and Psychology | EDUA | Education |
| Education: Curriculum, Teaching and Learning | EDUB | Education |
| Electrical Engineering | ECE | Engineering |
| Engineering - Preliminary Year | ENG | Engineering |
| English | ENGL | Arts |
| Entomology | ENTM | Agricultural and Food Sciences |
| Entrepreneurship/Small Business | ENTR | Management |
| Environment | ENVR | Environment, Earth, and Resources |
| Environment, Earth, and Resources | EER | Environment, Earth, and Resources |
| Environmental Architecture | EVAR | Architecture |
| Environmental Design | EVDS | Architecture |
| Environmental Interior Environment | EVIE | Architecture |
| Environmental Landscape and Urbanism | EVLU | Architecture |
| Family Social Sciences | FMLY | Medicine |
| Film Studies | FILM | Arts |
| Finance | FIN | Management |
| Fine Art General Courses | FA | Art |
| Fine Art Diploma | FNDP | Art |
| Fine Art: Art History | FAAH | Art |

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|---|------|---------------------------------------|
| Fine Art Studio Courses | STDO | Art |
| Food Science | FOOD | Agricultural and Food Sciences |
| Forensic Sciences | FORS | Science |
| French | FREN | Arts |
| General Agriculture | AGRI | Agricultural and Food Sciences |
| General Human Ecology | HMEC | Human Ecology |
| General Management | GMGT | Management |
| Geography | GEOG | Environment, Earth, and Resources |
| Geological Sciences | GEOL | Environment, Earth, and Resources |
| German | GRMN | Arts |
| Global Political Economy | GPE | Arts |
| Graduate Studies | GRAD | Graduate Studies |
| Greek | GRK | Arts |
| Health Studies | HEAL | Health Sciences |
| Hebrew | HEB | Arts |
| History | HIST | Arts |
| Human Nutritional Sciences | HNSC | Agricultural and Food Sciences |
| Human Resources Management/Industrial Relations | HRIR | Management |
| Icelandic | ICEL | Arts |
| Immunology | IMMU | Medicine |
| Interdisciplinary Management | IDM | Management |
| Interdisciplinary Medicine | IMED | Medicine |
| Interior Design | IDES | Architecture |
| International Business | INTB | Management |
| Subject | Code | Faculty/School |
| Italian | ITLN | Arts |
| Judaic Studies | JUD | Arts |
| Kinesiology | KIN | Kinesiology and Recreation Management |
| Kinesiology, Phys.Ed and Recreation | KPER | Kinesiology, Phys.Ed and Recreation |
| Labour and Workplace Studies | LABR | Arts |
| Landscape Architecture | LARC | Architecture |

| | | |
|---|------|---------------------------------------|
| Latin | LATN | Arts |
| Law | LAW | Law |
| Linguistics | LING | Arts |
| Management Information Systems | MIS | Management |
| Management Science | MSCI | Management |
| Marketing | MKT | Management |
| Mathematics | MATH | Science |
| Mechanical Engineering Graduate | MECG | Engineering |
| Mechanical Engineering Undergraduate | MECH | Engineering |
| Medical Microbiology | MMIC | Medicine |
| Medical Rehabilitation | REHB | Medical Rehabilitation |
| Medicine | MED | Medicine |
| Microbiology | MBIO | Science |
| Music | MUSC | Music |
| Native Studies | NATV | Arts |
| Nursing | NURS | Nursing |
| Occupational Therapy | OT | Medical Rehabilitation |
| Operations Management | OPM | Management |
| Oral Biology | ORLB | Dentistry |
| Pathology | PATH | Medicine |
| Peace Studies | PEAC | Graduate Studies |
| Pharmacology | PHAC | Medicine |
| Pharmacy | PHRM | Pharmacy |
| Pharmacy | PHMD | Pharmacy |
| Philosophy | PHIL | Arts |
| Physical Education | PHED | Kinesiology and Recreation Management |
| Physical Education and Recreation Studies General | PERS | Kinesiology and Recreation Management |
| Physical Therapy | PT | Medical Rehabilitation |
| Physics | PHYS | Science |
| Physiology | PHGY | Medicine |
| Plant Science | PLNT | Agricultural and Food Sciences |
| Polish | POL | Arts |
| Political Studies | POLS | Arts |

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|----------------------------------|------|---------------------------------------|
| Post Graduate Medical Education | PGME | Medicine |
| Preventive Dental Science | PDSB | Dentistry |
| Psychiatry | PCTY | Medicine |
| Psychology | PSYC | Arts |
| Recreation | REC | Kinesiology and Recreation Management |
| Religion | RLGN | Arts |
| Resource Management | NRI | Environment, Earth, and Resources |
| Respiratory Therapy | RESP | Medical Rehabilitation |
| Restorative Dentistry | RSTD | Dentistry |
| Russian | RUSN | Arts |
| Science, Interdisciplinary | SCI | Science |
| Semitic Languages and Literature | SEM | Arts |
| Slavic Studies | SLAV | Arts |
| Social Work | SWRK | Social Work |
| Sociology | SOC | Arts |
| Soil Science | SOIL | Agricultural and Food Sciences |
| Spanish | SPAN | Arts |
| Statistics | STAT | Science |
| Supply Chain Management | SCM | Management |
| Surgery | SURG | Medicine |
| Textile Sciences | TXSC | Agriculture |
| Theatre | THTR | Arts |
| Ukrainian | UKRN | Arts |
| Ukrainian Cdn. Heritage | UCHS | Arts |
| Undergraduate Medical Education | UGME | Medicine |
| Women's Studies | WOMN | Arts |
| Yiddish | YDSH | Arts |

Academic Programs

Undergraduate Programs Offered

The following is a listing of all degree, diploma and certificate programs offered at the Fort Garry Campus, the Bannatyne Campus and at Université de Saint-Boniface.

Agricultural and Food Sciences, Faculty of
 Science in Agribusiness, Bachelor of
 Science in Agriculture, Bachelor of
 Science in Agroecology, Bachelor of
 Science in Food Science, Bachelor of
 Science in Human Nutritional Sciences, Bachelor of
 Science (Textile Sciences), Bachelor of
 Agriculture, Diploma in
 Architecture, Faculty of
 Environmental Design, Bachelor of
 Art, School of
 Fine Arts (Honours), Bachelor of
 Fine Arts (Honours) (Art History), Bachelor of
 Fine Arts, Bachelor of
 Fine Arts (Art History), Bachelor of
 Art, Diploma in
 Arts, Faculty of
 Arts (Honours), Bachelor of
 Arts (Advanced), Bachelor of
 Arts, Bachelor of
 Arts (Integrated Studies), Bachelor of
 Université de Saint-Boniface
 Please see chapter for programs offered at Université de Saint-Boniface
 Education, Faculty of
 Education, Bachelor of
 Education, Post-Baccalaureate Diploma in
 Music, Bachelor of/Bachelor of Education (Integrated)
 Engineering, Faculty of
 Science in Engineering (Biosystems), Bachelor of
 Science in Engineering (Civil), Bachelor of
 Science in Engineering (Computer), Bachelor of
 Science in Engineering (Electrical), Bachelor of
 Science in Engineering (Manufacturing), Bachelor of
 Science in Engineering (Mechanical), Bachelor of
 Environment, Earth, & Resources, Clayton H. Riddell Faculty of
 Arts in Geography (Honours), Bachelor of
 Arts in Geography (Advanced), Bachelor of

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| Arts in Geography, Bachelor of | Kinesiology, Bachelor of |
| Environmental Science (Honours), Bachelor of | Physical Education, Bachelor of |
| Environmental Science (Major), Bachelor of | Recreation Mgmt & Community Development, Bachelor of |
| Environmental Science, Bachelor of | Law, Faculty of |
| Environmental Studies (Honours), Bachelor of | Juris Doctor |
| Environmental Studies (Major), Bachelor of | Management, Faculty of/I.H. Asper School of Business |
| Environmental Studies, Bachelor of | Commerce (Honours), Bachelor of |
| Science in Geological Sciences (Honours), Bachelor of | Music, Marcel A. Desautels Faculty of |
| Science in Geological Sciences (Major), Bachelor of | Jazz Studies, Bachelor of |
| Science in Geological Sciences, Bachelor of | Music, Bachelor of /Bachelor of Education (Integrated) |
| Science in Physical Geography (Honours), Bachelor of | Music (Composition), Bachelor of |
| Science in Physical Geography (Major), Bachelor of | Music (History), Bachelor of |
| Extended Education, Division of | Music (Performance), Bachelor of |
| Aboriginal Child & Family Services Diploma | Music, Bachelor of |
| Aboriginal Community Wellness Diploma | Performance, Post-Baccalaureate Diploma in |
| Labour Relations & Workplace Safety, Diploma in | Science, Faculty of |
| Health Sciences, Rady Faculty of | Computer Science (Honours), Bachelor of |
| Dental Hygiene, School of | Science (Honours), Bachelor of |
| Science in Dental Hygiene, Bachelor of | Science (Major), Bachelor of |
| Dental Hygiene, Diploma in | Science, Bachelor of |
| Dentistry, Dr. Gerald Niznick College of | Social Work, Faculty of |
| Dental Medicine, Doctor of | Social Work, Bachelor of |
| Science in Dentistry, Bachelor of | |
| Medicine, Max Rady College of | |
| Medicine, Doctor of | |
| Science in Medicine, Bachelor of | |
| Human Ecology (Family Social Sciences), Bachelor of | |
| Health Sciences, Bachelor of | |
| Health Studies, Bachelor of | |
| Nursing, College of | |
| Nursing, Four-Year Bachelor of | |
| Nursing, Bachelor of BPRN | |
| Pharmacy, College of | |
| Science in Pharmacy, Bachelor of | |
| Rehabilitation Sciences, College of | |
| Respiratory Therapy, Bachelor of | |
| Kinesiology & Recreation Management, Faculty of | |

Academic Schedule

SECTION 1: Dates for Fall/Winter Session

This section contains information for Fall and Winter Terms, including distance and online courses. See section 3 for Summer Term information, including information for distance and online courses offered over Summer Term.

1.1 Dates applicable to all U of M students:

1.1.1 University Closure

| | |
|--|-------------------------------|
| <i>When the University is closed no classes/examinations will be held.</i> | |
| Canada Day | July 1, 2019 |
| Terry Fox Day (Civic Holiday) | Aug. 5, 2019 |
| Labour Day | Sept. 2, 2019 |
| Thanksgiving Day | Oct. 14, 2019 |
| Remembrance Day | Nov. 11, 2019 |
| Winter Holiday | Dec. 21, 2019 to Jan. 1, 2020 |
| Louis Riel Day | Feb. 17, 2020 |
| Good Friday | April 10, 2020 |
| Victoria Day | May 18, 2020 |
| Canada Day (Holiday Observed) | July 1, 2020 |
| Terry Fox Day (Civic Holiday) | Aug. 3, 2020 |

1.2 Dates Applicable to most U of M Students

Some additional or differing date information is included in separate sections for: **Agriculture Diploma, Art (School of), Business Administration (MBA, MFin), Dental Hygiene, Dentistry (includes IDDP), Education (B.Ed. only), Medicine (excludes Family Social Sciences), Nursing, Occupational Therapy, Pharmacy, Physical Therapy, Physician Assistant Studies, Respiratory Therapy, and Social Work.** Students in these programs should also see their respective section of the Academic Schedule.

1.2.1 Orientation

| | |
|--|-------------------|
| <i>Additional or differing dates exist for: Agriculture Diploma, MBA, MFin, IDDP (Dentistry), Education (B.Ed. only), Medicine, Nursing, Occupational Therapy, Physical Therapy, Physician Assistant Studies, Respiratory Therapy, and Social Work. Students in these programs should also see their respective section of the Academic Schedule.</i> | |
| New Student Orientation | |
| Fall Term, Fort Garry Campus | September 3, 2019 |
| Winter Term, Fort Garry Campus | January 3, 2020 |
| Faculty of Arts, Faculty of Engineering, Faculty of Environment, Earth & Resources, Faculty of Graduate Studies, Faculty of Law, Faculty of Science, School of Art, Family Social Sciences, School of Business, Faculty of Architecture Graduate Orientation | September 3, 2019 |
| Faculty of Architecture, Environmental Design Program | August 26, 2019 |
| Faculty of Graduate Studies- | |

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|---|-------------------|
| Fall Term, Fort Garry Campus | August 30, 2019 |
| Winter Term, Fort Garry Campus | January 3, 2020 |
| Faculty of Graduate Studies | |
| Fall Term- Bannatyne Campus | September 6, 2019 |
| Winter Term, Bannatyne Campus | January 6, 2020 |
| Faculty of Kinesiology & Recreation Management | July 4 & 8, 2019 |
| Desautels Faculty of Music | June 20, 2019 |

1.2.2 Start and End Dates

| | |
|--|---------------------------------|
| <i>Additional or differing dates exist for: Agriculture Diploma, MBA, Dental Hygiene, Dentistry, Education, Medicine, Nursing, Occupational Therapy, Pharmacy, Physical Therapy, Physician Assistant Studies, Respiratory Therapy, and Social Work. Students in these programs should also see their respective section of the Academic Schedule.</i> | |
| Fall Term | September 4 to December 6, 2019 |
| <i>No classes, examinations or tests will be held Dec. 7 to 8, 2019</i> | |
| Winter Term | January 6 to April 7, 2020 |
| <i>No classes, examinations or tests will be held Apr. 10 or 12, 2020</i> | |
| Winter/Summer Term spanning distance and online courses | January 6 to July 2, 2020 |

1.2.3 Registration and Withdrawal Dates

| | |
|---|--------------------------------|
| <i>Additional or differing dates exist for: Agriculture Diploma and other faculties, colleges and/or schools offering irregularly scheduled courses. Agriculture Diploma students should also see their respective section of the Academic Schedule; all others should also refer to either the 'Irregular Refund and Voluntary Withdrawal Deadline' information posted on the Registrar's Office website (http://umanitoba.ca/registrar/fees/irregular_refund_vw_deadlines.htm), or in the Class Schedule.</i> | |
| Regular Registration Period | |
| Fall Term and Fall/Winter Term classes | Ends September 3, 2019 |
| Winter Term classes and Winter/Summer term spanning distance and online courses | Ends January 5, 2020 |
| Limited Access Term Expiry Dates (To be determined by the Registrar's Office in accordance with the schedule of registration) | |
| Fall Term and Fall/Winter Term classes | July to September 3, 2019 |
| Winter Term classes and Winter/Summer term spanning distance and online courses | November 20 to January 5, 2020 |
| Registration Revision Period | |
| <i>Students may use this period of time to make changes to their selected courses or class schedule. Last day to drop is 1 business day prior to the end of the Registration Revision Period.</i> | |
| Fall Term and Fall/Winter Term classes | September 4 to 18, 2019 |
| Winter Term classes and Winter/Summer Term spanning distance and online courses | January 6 to 20, 2020 |

| | |
|---|--------------------|
| Last Date to Drop without Penalty | |
| <i>Last date to drop and have courses excluded from transcripts; VWs will be recorded on transcripts for courses dropped after this date. There will be no refunds for courses dropped after this date. Additional or differing dates exist for Agriculture Diploma; students in this program should also see their respective section of the Academic Schedule</i> | |
| Fall Term | September 17, 2019 |
| Fall/Winter Term classes Part A | September 17, 2019 |
| Fall/Winter Term classes Part B (VW recorded if dropped after Sept. 17, 2019) | January 17, 2020 |
| Winter Term classes and Winter/Summer term spanning distance and online courses | January 17, 2020 |
| Last Date to Register/Registration Revision Deadline | |
| Fall Term and Fall/Winter Term classes | September 18, 2019 |
| Winter Term classes and Winter/Summer Term spanning distance and online courses | January 20, 2020 |
| Voluntary Withdrawal (VW) deadline | |
| <i>Last date to withdraw and not receive a final grade; students cannot withdraw from courses after this date.</i> | |
| Fall Term classes | November 18, 2019 |
| Fall/Winter Term spanning classes | January 17, 2020 |
| Winter Term Classes | March 18, 2020 |
| Winter/Summer Term spanning distance and online courses | May 6, 2020 |

1.2.4 Fee Deadlines

| | |
|--|------------------|
| Fee Payment Deadline | |
| <i>A financial penalty will be assessed on accounts with an outstanding balance after this date.</i> | |
| Fall Term | October 2, 2019 |
| Winter Term | February 4, 2020 |
| See Section 1.2.3 for the Last Day to Drop without Penalty | |

1.2.5. Term Breaks

| | |
|---|-------------------------|
| <i>Academic and administrative offices will be open during this period; no classes/examinations will be held for students. Additional or differing dates exist for: Agriculture Diploma, MBA, Dental Hygiene, Dentistry, Education (B.Ed only), Medicine (MD only), Occupational Therapy, Pharmacy (Year 4), Physical Therapy, Physician Assistant Studies, and Respiratory Therapy. Students in these programs should also see their respective section of the Academic Schedule.</i> | |
| Fall Term Break <i>The UofM will be closed Monday November 11 for Remembrance Day (see 1.1.1)</i> | November 12 to 15, 2019 |
| Winter Term Break <i>The UofM will be closed Monday February 17 for Louis Riel day (see 1.1.1)</i> | February 18 to 21, 2020 |

1.2.6 Examination and Test Dates

| |
|---|
| <i>Students are reminded that they must remain available until all examination and test obligations have been fulfilled. Additional or differing dates exist for: Agriculture Diploma, Dental Hygiene, Dentistry, Education, Medicine (MD), Pharmacy, and Physician Assistant Studies. Students in these programs should also see their respective section of the Academic Schedule. Students in faculties, colleges, schools or programs</i> |
|---|

| | |
|--|------------------------|
| <i>offering irregularly scheduled courses should also see the exam timetable available through their program office.</i> | |
| Fall Term (includes tests and midterm exams for Fall/Winter Term classes) | December 9 to 20, 2019 |
| <i>No classes, examinations or tests will be held December 7 or 8, 2019</i> | |
| Winter Term (includes final exams for Fall/Winter Term classes) | April 13 to 25, 2020 |
| <i>No classes, examinations or tests will be held April 10 or 12, 2020</i> | |

1.2.7 Challenge for Credit

| | |
|---|--------------------|
| Challenge for Credit application deadline: | September 18, 2019 |
| For classes offered Fall Term 2019 and spanning Fall/Winter 2019-2020 | |
| For classes offered Winter Term 2020 | January 17, 2020 |

1.2.8 Final Grade Appeal Deadlines

| | |
|--|------------------|
| For final grades received for Fall Term 2019 classes | January 22, 2020 |
| For final grades received for Winter Term 2020 and Fall 2019/Winter 2020 classes | June 8, 2020 |

1.2.9 Graduation and University Convocation

| | |
|--|------------------------|
| <i>Degrees, Diplomas and Certificates will be awarded at Convocation. <u>Graduation date may differ from Convocation Ceremony date.</u> Additional or differing dates exist for Agriculture Diploma, Dental Hygiene, Dentistry, Medicine, Occupational Therapy, Pharmacy, Physical Therapy, Physician Assistant Studies, and Respiratory Therapy; students in these programs should also see their respective section of the Academic Schedule.</i> | |
| For students graduating Fall 2019: | August 1, 2019 |
| <i>Deadline to apply online to graduate for most Undergraduate students</i> | |
| Faculty of Graduate Studies Submission Deadline* | August 29, 2019 |
| Convocation Ceremony (Fort Garry Campus) | October 15 to 17, 2019 |
| Convocation Ceremony (Bannatyne Campus) | November 7, 2019 |
| For students graduating February 2020: | September 18, 2019 |
| <i>Deadline to apply online to graduate for most Undergraduate students</i> | |
| Faculty of Graduate Studies Submission Deadline* | January 2, 2020 |
| Graduation date for students graduating in February | February 5, 2020 |
| Convocation Ceremony (Fort Garry Campus) | June 4 to June 9, 2020 |

| | |
|--|-----------------------|
| For students graduating Spring 2020: Deadline to apply online to graduate <i>for most Undergraduate students</i> | January 20, 2020 |
| Faculty of Graduate Studies Submission Deadline* | March 31, 2020 |
| Convocation Ceremony – Agriculture Diploma | May 1, 2020 |
| Convocation Ceremony - Bannatyne Campus | May 21, 2020 |
| Convocation Ceremony - Fort Garry Campus | June 4 o June 9, 2020 |
| Convocation Ceremony - Université de Saint-Boniface | June 15, 2020 |
| Graduate Studies Submission Deadline* for students graduating Fall 2020 | August 27, 2020 |
| Annual traditional Graduation Pow Wow in honour of Indigenous graduates | May 2, 2020 |
| <i>*Last date for receipt by Graduate Studies of Theses/Practica and reports on Theses/Practica, comprehensive examinations, and project reports from students, and lists of potential graduands from departments.</i> | |

1.3 Dates Applicable to Agriculture Diploma

| | |
|---|---------------------------------|
| 1.3.1 Orientation | Sept. 18, 2019 |
| 1.3.2 Start and End Dates | |
| Fall Term | Sept. 19 to December 6, 2019 |
| Winter Term | January 6 to March 27, 2020 |
| 1.3.3 Registration and Withdrawal Dates | |
| Regular Registration Period | |
| Fall Term and Fall/Winter Term classes | Ends September 18, 2019 |
| Winter Term classes | End January 5, 2020 |
| Late Registration/Registration Revision Period | |
| <i>A financial penalty may be assessed on late registrations. Students may use this period of time to make changes to their selected courses or class schedule.</i> | |
| Fall Term and Fall/Winter Term classes | September 19 to October 3, 2019 |
| Winter Term classes | January 6 to January 20, 2020 |
| Last Day to Drop without Penalty | |
| <i>Last date to drop and have class excluded from transcripts; VWs will be recorded on transcripts for classes dropped after this date</i> | |
| Fall Term and Fall/Winter Term classes | October 2, 2019 |
| Winter Term classes | January 17, 2020 |
| Last Date to Register/Registration Revision Deadline | |
| Fall Term and Fall/Winter Term classes | October 3, 2019 |
| Winter Term classes | January 20, 2020 |
| Voluntary (VW) Withdrawal deadline | |
| <i>Last date to withdraw and not receive a final grade; students cannot withdraw from classes after this date.</i> | |
| Fall Term classes | November 15, 2019 |
| Winter Term and Fall/Winter Term classes | March 6, 2020 |
| 1.3.4 Term Breaks | |

| | |
|--|---------------------------|
| Fall Term Break | n/a |
| Winter Term Break | See section 1.2.5 |
| 1.3.5 Examination and Test Dates | |
| Fall Term (includes tests and midterm exams for Fall/Winter Term classes) | December 9 to 18, 2019 |
| Winter Term (includes final exams for Fall/Winter Term classes) | March 30 to April 8, 2020 |
| 1.3.6 School of Agriculture Convocation | May 1, 2020 |
| 1.3.6 School of Agriculture Convocation | May 1, 2020 |

1.4 Dates Applicable to Art (School of):

| | |
|--|-----|
| 1.4.1 Field Trip First Year Field Trip | TBD |
|--|-----|

1.5 Dates Applicable to Business Administration and Finance (M.B.A. and M.Fin.)

| | |
|--------------------------|--------------------------|
| 1.5.1 Orientation | TBD (mid-August) |
| Fall Term | |
| Winter Term (only M.B.A) | TBD (first week January) |

1.5.2 Start and End Dates

| | |
|-------------|--------------------------------|
| Fall Term | August 21 to December 20, 2019 |
| Winter Term | January 6 to April 30, 2020 |

1.5.3 Term Breaks

| | |
|---|--------------------------|
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students</i> | |
| Fall Term Break | n/a |
| Winter Term Break | n/a |
| 1.5.4 Examination and Test Dates | Dates vary through terms |

1.6 Dates Applicable to Dental Hygiene

1.6.1 Start and End Dates

| | |
|---------------------|--------------------------------|
| Year 2 | |
| Fall Term Classes | August 19 to November 29, 2019 |
| Winter Term Classes | January 6 to April 3, 2020 |
| Year 3 | |
| Fall Term Classes | August 12 to November 29, 2019 |
| Fall Term Clinics | TBD to December 6, 2019 |
| Winter Term Classes | January 6 to April 3, 2020 |
| Winter Term Clinics | January 6 to April 9, 2020 |

1.6.2 Term Breaks

| | |
|--|--------------------|
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Fall Term Break | n/a |
| Winter Term Break | March 2 to 6, 2020 |

1.6.3 Examination and Test Dates

| | |
|---|------------------------|
| Year 2 | |
| Fall Term (includes tests and midterm exams for Fall/Winter Term classes) | December 2 to 13, 2019 |
| Winter Term | April 6 to 9, 2020 |
| Year 3 | |
| Fall Term (includes tests and midterm exams for Fall/Winter classes) | December 9 to 13, 2019 |
| Winter Term | April 13 to 17, 2020 |
| 1.6.4 Convocation Ceremony- Bannatyne Campus | May 21, 2020 |

1.7 Dates Applicable to Dentistry (including International Dentist Degree Program)**1.7.1 Start and End Dates**

| | |
|--|--|
| DENT 2440 IDDP Orientation | TBD |
| Years 1 and 2 Classes and Clinics | |
| Fall Term | August 12 to November 29, 2019 |
| Winter Term | January 6 to May 1, 2020 |
| Year 3/IDDP 1 Classes and Clinics | |
| Fall Term | August 6 to November 29 (classes) & December 6 (clinics), 2019 |
| Winter Term | January 6 to April 24, 2020 |
| Year 4/IDDP 2 Classes and Clinics | |
| Fall Term | August 6 to December 6, 2019 (classes & clinics) |
| Winter Term | January 6 to April 24, 2020 |

1.7.2 Term Breaks

| | |
|--|--------------------|
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Fall Term Break | n/a |
| Winter Term Break | March 2 to 6, 2020 |

1.7.3 Examination and Test Dates

| | |
|---|------------------------|
| Years 1, 2 and 3/IDDP 1 | |
| Fall Term (includes tests and midterm exams for Fall/Winter Term classes) | December 2 to 13, 2019 |
| Winter Term | May 4 to 15, 2020 |
| Year 4/IDDP 2 | |

| | |
|---|------------------------|
| Fall Term (includes tests and midterm exams for Fall/Winter Term classes) | December 9 to 13, 2019 |
| Winter Term | January 13 to 17, 2020 |
| 1.7.4 Convocation Ceremony- Bannatyne Campus | May 21, 2020 |

1.8 Dates applicable to Education (B.Ed only)

Note: Unless registered in a B.Ed course, PBDE students follow the dates listed in Section 1.2: Dates applicable to most U of M students.

1.8.1 Orientation

| | |
|----------------------|---------------------------------|
| Year 1 | September 3, 2019 |
| Year 2/Intergrated 5 | Tentative September 11/12, 2019 |

1.8.2 Start and End Dates Note: Practicum dates may vary by practicum placement.

| | |
|------------------------|--|
| Fall Term | |
| Practicum Block Year 1 | September 4 to 6, 2019 |
| Practicum Block Year 2 | September 3 to 6, 2019 |
| Practicum Mondays | September 9, 16, 23 & 30; October 7, & 28; November 4, 2019 |
| Day Classes | September 10 to November 8, 2019 |
| Practicum Block | November 18 to December 17, 2019 |
| Winter Term | |
| Program Day | January 27, 2020 |
| Day Classes | January 7 to March 13, 2020 |
| Practicum Mondays | January 6, 13, & 20; February 3, 10, & 24; March 2 & 9, 2020 |
| Practicum Block | March 16 to 27; April 6 to 24, 2020 |

1.8.3 Term Breaks

| | |
|--|---------------------------|
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students. Note: Dates may vary by school division and/ or practicum placement.</i> | |
| Fall Term Break | see section 1.2.5 |
| Winter Term Break | See section 1.2.5 |
| Winter Practicum Break . | March 30 to April 3, 2020 |

1.8.4 Examination and Test Dates

| | |
|----------------------------------|------------------|
| Fall Term (as required) | November 9, 2019 |
| Winter Term (as required) | March 14, 2020 |

1.9 Dates Applicable to Medicine (excludes Family Social Sciences and Interdisciplinary Health Programs)**1.9.1 Orientation**

| | |
|--------|-----------------------|
| Year 1 | August 20 to 23, 2019 |
|--------|-----------------------|

1.9.2 Start and End Dates

| | |
|--------------------|---|
| Year 1 | |
| Fall Term | August 20 to December 20, 2019 |
| Winter Term | January 6 to May 29, 2020 |
| Year 2 | |
| Fall Term | August 26 to December 20, 2019 |
| Winter Term | January 6 to May 29, 2020 |
| Year 3 | |
| Fall Term | August 26 to December 20, 2019 |
| Winter Term | January 6 to May 31, 2020 |
| Year 4 | |
| Fall Term | August 19 to December 20, 2019 |
| Winter Term | January 6 to May 8, 2020 |
| B.Sc. (Med) | June to August, 2020 (subject to change) |

1.9.3 Term Breaks

| | |
|--|----------------------|
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Year 1 and 2 | |
| Fall Term Break | n/a |
| Winter Term Break | March 16 to 20, 2020 |
| Year 3 & 4 | |
| Fall & Winter Term Break | n/a |
| 1.9.5 Convocation Ceremony- Bannatyne Campus | May 21, 2020 |

Note: Family Social Sciences and Interdisciplinary Programs students follow the dates listed in Section 1.2: Dates applicable to most U of M students.

1.9.4 Examination and Test Dates

| | |
|-------------|------------------------------------|
| Year 1 & 2 | n/a |
| Year 3 | November 8 & December 20, 2019 |
| Fall Term | |
| Winter Term | February 14, March 27, May 8, 2020 |
| Year 4 | September 27, 2019 |
| Fall Term | |
| Winter Term | n/a |

1.10 Dates Applicable to Nursing**1.10.1 Orientation**

| | |
|--|---------------------------------|
| Year 2 Students admitted for Fall Term | August 28 & 29, 2019 |
| Year 2 Students admitted for Winter Term | December 18 & 19, 2019 |
| 1.10.2 Start and End Dates | |
| Year 2 Fall Term Classes | September 3 to December 7, 2019 |
| Year 3 & 4 Fall Term Classes | Dates vary, see class schedule |
| Winter Term Classes | January 3 to April 7, 2020 |
| Year 3 & 4 Winter Terms Classes | Dates vary, see class schedule |
| Nursing Practice | |
| Fall Term Nursing Practice 1 to 6 | Dates vary, see class schedule |
| Winter Term Nursing Practice 1 to 6 | Dates vary, see class schedule |
| Year 4 NURS 4580 Senior Practicum | |
| Winter Term | January 6 to April 7, 2020 |
| 1.10.3 Examination and Test Dates | Dates vary, see class schedule |

1.11 Dates Applicable to Occupational Therapy

| | |
|--|---|
| 1.11.1 Year 1 Orientation | August 22 & 23, 2019 |
| 1.11.2 Start and End Dates | |
| Year 1 | |
| Fall Term Classes | August 26 to November 15, 2019 |
| Basic Fieldwork | November 18 to December 13, 2019 |
| Winter Term Classes | January 6 to May 1, 2020 |
| Intermediate Fieldwork 1 | May 4 to June 26, 2020 |
| Year 2 | |
| Fall Term Classes | August 26 to December 13, 2019 |
| Intermediate Fieldwork 2 | January 6 to February 28, 2020 |
| Winter Term Classes | March 9 to June 19, 2020 |
| Advanced Fieldwork | flexible start and end dates between June 22 to September 11, 2020 |
| 1.11.3 Term Breaks | |
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Fall Term Break | n/a |
| Winter Mid-Term Break | March 2 to 6, 2020 |
| *Note: Some students may need to complete fieldwork during mid-term break depending on availability of fieldwork sites. | |
| 1.11.4 Convocation Ceremony- Bannatyne Campus | TBD |

1.12 Dates Applicable to Pharmacy:

| | |
|--|---------------------------------|
| 1.12.1 Start and End Dates | |
| Year 1 | |
| Fall Term Classes | August 26 to December 6, 2019 |
| Winter Term Classes | January 2 to April 7, 2020 |
| Year 2 | |
| Fall Term Classes | n/a |
| Winter Term Classes | n/a |
| SPEP 2 | n/a |
| Year 3 | |
| Fall Term Classes | September 3 to December 6, 2019 |
| Winter Term Classes | January 2 to March 25, 2020 |
| SPEP 3 | April 6 to May 1, 2020 |
| Year 4 | |
| Fall Term Classes | September 3 to October 28, 2019 |
| SPEP 4 – Block 1 | November 4 to December 13, 2019 |
| Electives – Block 1 | November 4 to December 20, 2019 |
| Winter Term Classes | n/a |
| SPEP 4 – Block 2 | January 6 to February 14, 2020 |
| Electives – Block 2 | January 6 to February 21, 2020 |
| SPEP 4 – Block 3 | February 24 to April 3, 2020 |
| Electives – Block 3 | February 24 to April 9, 2020 |
| 1.12.2 Term Breaks | |
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Year 1 and 3 | See section 1.2.5 |
| Year 4 | n/a |
| 1.12.3 Examination and Test Dates | |
| Year 1 | |
| See section 1.2.6 | |
| Year 2 | |
| Fall Term Exams | n/a |
| Winter Term Exams | n/a |
| Year 3 | |
| Fall Term Exams | See section 1.2.6 |
| Winter Term Exams | March 27 to April 3, 2020 |
| Year 4 | |

| | |
|--|--------------------------------|
| Fall Term Exams | October 30 to November 1, 2019 |
| Winter Term Exams | n/a |
| 1.12.4 Convocation Ceremony- Bannatyne Campus | May 21, 2020 |

1.13 Dates Applicable to Physical Therapy:

| | |
|--|---|
| 1.13.1 Orientation | n/a |
| 1.13.2 Start and End Dates | |
| Fall Term | |
| MPT1 Classes | August 7 to December 20, 2019 |
| MPT2 Classes | August 7 to October 11, 2019 |
| MPT2 Fall Term Placement | 1x5 week placement between October 14 to December 20, 2019 |
| Winter Term | |
| MPT1 & MPT2 Classes | January 2 to March 27, 2020 |
| MPT1 & MPT2 Winter Term Placements | 2x6-week placement between April 6 to August 7, 2020 |
| 1.13.3 Term Breaks | |
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Fall Term Break | n/a |
| Winter Term Break | March 30 to April 3, 2020 |
| 1.13.4 Convocation Ceremony- Bannatyne Campus | TBD |

1.14 Dates applicable to Physician Assistant Studies

| | |
|-----------------------------------|---|
| 1.14.1 Orientation | August 26 to September 4, 2019 |
| Year 1 | |
| Clinical Year 2 Orientation | August 17 to 21, 2019 |
| 1.14.2 Start and End Dates | |
| Fall Term | September 5 to December 6, 2019 |
| Winter Term | January 6 to April 3, 2020 |
| Clinical Year 2 Rotations | August 22 to December 2019; January 3 to August 28, 2020 |

| | |
|--|------------------------|
| 1.14.3 Term Breaks | n/a |
| Fall Term Break | |
| Winter Term Break | See section 1.2.5 |
| 1.14.4 Examination and Test Dates | December 9 to 13, 2019 |
| Fall Term | |
| Winter Term | April 6 to 13, 2020 |
| 1.14.5 Convocation Ceremony- Bannatyne Campus | TBD |

***Note:** Some students may need to complete fieldwork during the fall and/or winter term breaks

Section 2: Dates for Summer Term

TBA

1.15 Dates Applicable to Respiratory Therapy:

| | |
|--|----------------------------------|
| 1.15.1 Orientation | |
| Year 1 | August 29 & 30, 2019 |
| Year 3 | August 14, 2019 |
| 1.15.2 Start and End Dates | |
| Year 1 | |
| Fall Term | September 3 to December 20, 2019 |
| Winter Term | January 6 to May 22, 2020 |
| Year 2 | |
| Fall Term | September 3 to December 20, 2019 |
| Winter Term | January 6 to June 26, 2020 |
| Year 3 | |
| Fall Term | August 19 to December 20, 2019 |
| Winter Term | January 2 to May 15, 2020 |
| 1.15.3 Term Breaks | |
| <i>The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students.</i> | |
| Fall Term Break | n/a |
| Winter Term Break | see section 1.2.5 |
| 1.15.4 Convocation Ceremony- Bannatyne Campus | TBD |

1.16 Dates Applicable to Social Work:

| | |
|-----------------------------------|----------------------------------|
| 1.16.1 Orientation | |
| Fort Garry, Inner City | |
| Field Instruction Orientation | September 3, 2019 |
| 1.16.2 Start and End Dates | |
| Field Instruction* | |
| Fall Term | September 3 to December 13, 2019 |
| Winter Term | January 6 to April 17, 2020 |

University Policies and Procedures

Responsibilities of Academic Staff with Regard to Students Policy

Part I

Reason for Policy

- 1.1 The purpose of this Policy is to identify the responsibilities and the discharge of responsibilities of Academic Staff with regard to Students.
- 1.2 Some of the responsibilities and discharge of responsibilities with regard to Students will rest with the individual Academic Staff member, while others are collective responsibilities to be exercised at the Unit level.
- 1.3 This Policy and its related Procedures will identify and differentiate the responsibilities and discharge of responsibilities of Academic Staff at the individual and at the Unit level.

Part II

Policy Content

Definitions

- 2.1 The following terms are defined for the purpose of this Policy and related Procedures:
- (a) "Academic Administrator(s)" refers to the senior academic administrative positions having direct management authority over a Unit and the primary responsibility for the management functions of planning, directing, controlling and evaluating a large group of the University's resources within that Unit, including people, budgets and facilities. This category includes, without limitation, a dean, director, associate dean, assistant dean, chair or head of department, insofar as they perform managerial duties.
- (b) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (c) "Policy" means this Responsibilities of Academic Staff with regard to Students Policy.
- (d) "Procedure" means the Responsibilities of Academic Staff with regard to Students Procedure.
- (e) "Student" or "Students" refer to any person or group of people registered as a student at the University of Manitoba.
- (f) "Unit" refers to a department, centre, institute, college, faculty, school, or other academic division to which Academic Staff is assigned to teach Students.
- (g) "University" refers to the University of Manitoba.

Individual Responsibilities of Academic Staff

- 2.2 The responsibilities of Academic Staff with regard to Students are primarily instructional and scholarly, and secondarily administrative. They may include:
- (a) Undergraduate, graduate, and continuing education instruction;
- (b) Scholarly attainment through personal study and research, including:
- study for purposes of academic self-improvement or course improvement; and
 - keeping abreast of new developments, and research that leads to a useful or original contribution toward the advancement of knowledge and understanding;
- (c) Administrative work as required for instructional and scholarly activities including committee work at various levels (departmental, faculty, university) as it pertains directly or indirectly to Students.
- 2.3 In discharging their instructional responsibilities, Academic Staff shall act with academic integrity, scholarly competence and pedagogic effectiveness by providing Students with pertinent materials in a timely manner, by maintaining familiarity with current policies and responsibilities regarding privacy, copyright and human rights, and by adhering to regulations pertaining to instruction, reporting and evaluation at the University.
- 2.4 Academic Staff are to provide an effective learning environment and to

endeavor to ensure fair and consistent treatment of Students by periodically reviewing and updating all course content and outlines. Collective Responsibilities of Academic Staff

- 2.5 The collective responsibilities of the Academic Staff shall be exercised through the actions of the Unit's administrators and councils, including:
- Periodically reviewing all courses and programs, including course descriptions, to ensure that the material to be presented is current and appropriate and the academic calendar information is clear and accurate;
 - Ensuring that the Unit's policies, regulations and procedures provide for fair and consistent treatment of Students;
 - Ensuring the academic calendar reflects any Unit-specific policies that may affect the Student's academic progress;
 - Making available on the University's website and providing for convenient student access to information on supplemental Unit-specific regulations, policies and procedures; and
 - Providing the names of instructors assigned to teach particular courses and sections at the earliest possible opportunity.

Part III

Accountability

- 3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Policy is required.
- 3.2 The Provost and Vice-President (Academic) is responsible for the implementation, administration and review of this Policy.
- 3.3 Academic Staff and Academic Administrators are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

- 4.1 The Provost and Vice-President (Academic) or the Approving Body may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V

Review

- 5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Policy is September 1, 2026.
- 5.2 In the interim, this Policy may be revised or repealed if:
- the Provost and Vice-President (Academic) or the Approving Body deems it necessary or desirable to do so;
 - the Policy is no longer legislatively or statutorily compliant; and/or
 - the Policy is now in conflict with another Governing Document.
- 5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:
- comply with the revised Policy; or
 - are in turn repealed.

Part VI

Effect on Previous Statements

- 6.1 This Policy supersedes all of the following:
- Responsibilities of Academic Staff with Regard to Students Policy, revised June 25, 1998;
 - all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
 - all previous Administration Governing Documents on the subject matter contained herein.

Part VII

Cross References

- 7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:
- Responsibilities of Academic Staff with Regard to Students Procedure;
 - Conflict of Interest Policy;

- (c) Conflict of Interest between Evaluators and Students due to Close Personal Relationships Policy;
- (d) Electronic Communication with Students Policy;
- (e) Final Examination and Final Grades Policy;
- (f) Grade Point Averages Policy;
- (g) Intellectual Property Policy
- (h) Multi-Sectioned Courses Policy;
- (i) Respectful Work and Learning Environment Policy;
- (j) Sexual Assault Policy;
- (k) Responsible Conduct of Research Policy;
- (l) Student Advocacy Office Policy;
- (m) Student Discipline Bylaw;
- (n) Student Academic Misconduct Procedure;
- (o) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (p) Student Discipline Appeal Procedure;
- (q) Teaching Evaluation Policy;
- (r) The University of Manitoba Accessibility Policy;
- (s) University Health Services Policy;
- (t) Voluntary Withdrawal Policy.

Responsibilities of Academic Staff with Regard to Students Procedures

Part I

Reason for Procedure

1.1 To set out Procedures secondary to the Policy entitled "Responsibilities of Academic Staff with Regard to Students".

Part II

Procedural Content

Definitions

2.1 These procedures are to be read in conjunction with the Responsibilities of Academic Staff with regard to Students policy, and all capitalized terms used herein shall have the meaning given to them in the Policy. In addition, the following definitions shall apply:

- (a) "Academic Administrator(s)" refers to the senior academic administrative positions having direct management authority over a Unit and the primary responsibility for the management functions of planning, directing, controlling and evaluating a large group of the University's resources within that Unit, including people, budgets and facilities. This category includes, without limitation, a dean, director, associate dean, assistant dean, chair or head of department, insofar as they perform managerial duties.
- (b) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (c) "Calendar" means the University of Manitoba's official Academic Calendar under which the course is taught.
- (d) "Policy" means the Responsibilities of Academic Staff with regard to Students policy.
- (e) "Procedure" means this Responsibilities of Academic Staff with regard to Students procedure.
- (f) "Student" or "Students" refer to any person or group of people registered as a student at the University of Manitoba.
- (g) "Unit" refers to a department, centre, institute, college, faculty, school, or other academic division to which Academic Staff is assigned to teach Students.
- (h) "Working Days" will mean Monday through Friday excluding days in which the University is closed.

Individual Responsibilities of Academic Staff

2.2 Course Content. Academic Staff shall teach their courses with due alignment to Calendar descriptions.

2.3 Policies. Academic Staff will maintain familiarity with current University, faculty, school, college and/or department policies regarding plagiarism

and cheating, examination impersonations, student access to final examination scripts, student discipline, grade appeals, copyright and intellectual property, and the University policy regarding the respectful work and learning environment, as posted on the University's "Governing Documents" website;

2.4 Regulations. Academic Staff will adhere to regulations pertaining to the format, content and conduct of courses and laboratories, including regulations pertaining to examinations, term work, grades, and related matters as outlined in University and Unit guidelines.

2.5 Course Outline. Academic Staff shall provide a course outline to every Student registered in their class and review its content within the first week of classes, either through a paper copy and/or via the University's student information system (Aurora, UM Learn, or such other University information system as may be approved by the University from time to time). The course outline will contain at minimum the following information:

- (a) Name of Academic Staff;
- (b) Office number, telephone number and email address;
- (c) A list of the learning materials that the Student is required to obtain including the appropriate referencing style guide(s) acceptable to the Academic Staff and/or discipline in courses where it is relevant;
- (d) A course description outlining the topics to be covered and goals of the course, which could include the bona fide academic requirements and learning outcomes for the course;
- (e) Expectations for class attendance and penalties, if any, for non-compliance;
- (f) A description of the evaluation procedure and methods that will be used, including:
 - (i) The weighting of the components that will contribute to the final grade;
 - (ii) A description of how the numeric grade will be converted to the University's letter grade system; and
 - (iii) An indication of whether specific assignment instructions, grading rules, or rubrics will be provided.

NOTE: It is understood by Senate that the provision of this information is not intended to affect the question of equity in multi-sectioned courses in any way.

- (g) An indication of how evaluative feedback will be given to the student, including:
 - (i) The form of evaluative feedback (formative (e.g. comments) or summative (e.g. grade));
 - (ii) When summative feedback will be distributed in relation to the voluntary withdrawal deadline, Unit guidelines, and section 2.9(f) of this Procedure; and
 - (iii) The method in which evaluative feedback will be delivered (for example, via paper or electronic method);
- (h) A schedule of the Academic Staff member's availability for individual student consultation, in accordance with section 2.9(d);
- (i) A schedule of term assignments and tests;
- (j) A statement of the practice to be followed regarding late submission of assignments and missed term tests;
- (k) A statement outlining parameters for the use of electronic and mechanical devices and course technology that may be required (for example, cellphones, laptops, tablets);
- (l) A statement regarding recording of classes, with reference to any University policies that might apply;
- (m) A statement referring Students with disabilities to Student Accessibility Services to facilitate the implementation of accommodations, and a statement communicating willingness to meet with Students to discuss the accommodations recommended by Student Accessibility Services; and
- (n) A statement regarding academic integrity, including "plagiarism and cheating" and "examination personation" as described in the Calendar and, where appropriate, references to specific course requirements for individual work and group work, such as:
 - (i) Group projects are subject to the rules of academic dishonesty;
 - (ii) Group members must ensure that a group project adheres to the principles of academic integrity.
 - (iii) Students should also be made aware of any specific instructions concerning study groups and individual assignments;
 - (iv) The limits of collaboration on assignments should be defined as explicitly as possible; and
 - (v) All work is to be completed independently unless otherwise specified.

2.6 Policy and Resource Document. Academic Staff shall provide to every student the information on University support offices and policies outlined in Schedule "A" to this Procedure, within the first week of classes, either through a paper copy and/or via the University's student information system (Aurora, UM Learn, or such other University information system as may be approved by the University from time to time).

2.7 Learning Materials. Academic Staff shall specify learning materials in accordance with announced purchasing deadlines.

2.8 Changes to Course Outline and Timing Requirements. Academic Staff who wish to make changes to the method of evaluation or format of assignments in the course outline after it has been distributed to the class shall proceed as follows:

(a) Academic Staff shall, in a timely fashion:

(i) Discuss the proposed changes (e.g. in the class and/or through UM Learn) and encourage Students to provide feedback to the Academic Staff if there are any issues with the proposed changes;

(ii) Provide the revised outline to the Academic Administrator of the Unit; and

(iii) Confirm the changes in writing by providing the revised course outline to every Student registered in the course within the first week following the change, either through a paper copy and via the University's student information system (Aurora, UM Learn, or such other University information system as may be approved by University administration from time to time).

(b) In circumstances where weighting of assignments is changed retroactively, a Student who wishes to be graded according to the original course outline must advise the Academic Staff within at least five (5) Working Days of receiving the revised outline, failing which the Student will be graded according to the revised outline. Academic Staff shall advise Students of the deadline when they provide the revised outline.

2.9 Interactions with Students. In their interactions with Students, Academic Staff shall:

(a) not deny registration for instruction in those courses for which the permission of the Academic Staff is required, except where the Student lacks appropriate qualifications or where an approved policy on limited enrolment is in effect;

(b) comply with existing human rights legislation;

(c) not accept money or other goods or services from Students for assistance with any course offered by the University. This clause, however, shall not prevent student teaching assistants or other Academic Staff from accepting payment for tutoring in courses/sections which do not fall within the scope of their University employment;

(d) be available for a reasonable amount of time, on a known and posted basis, for individual consultation with Students registered in their courses or laboratories;

(e) evaluate student academic performance in a fair and reasonable manner, and by means of appropriate academic criteria;

(f) provide early evaluative feedback as specified in the course outline (see section 2.5(g));

(g) foster an exchange of ideas between themselves and their Students in the classroom and allow Students the freedom to take legitimate exception to the data, views, or methods presented;

(h) respect the confidentiality of information about Students;

(i) keep confidential any information about the academic performance of a Student, unless release is authorized by the Student, required by his/her instructional team, or requested by an administrative officer in accordance with the University policy on the release of information;

(j) explicitly acknowledge in written or oral presentations any contribution of student research or assistance;

(k) not obtain any improper personal advantage from a Student or Student work; and

(l) not retaliate against a student who has filed a complaint, whether the complaint was substantiated or unsubstantiated.

2.10 Instruction. Academic Staff are responsible for:

(a) the organization, preparation and delivery of course material, the evaluation of student academic progress;

(b) the reporting of such evaluation in accordance with approved policies and schedules; and

(c) consultation with Students out of class or laboratory hours, and supervision of student research and thesis preparation.

2.11 Scheduled Classes. Academic Staff shall not cancel, miss, terminate or shorten scheduled instruction except for good reasons. Whenever a scheduled period of instruction is cancelled, the Academic Staff shall:

(a) inform the class at the earliest possible time;

(b) inform the Academic Administrator of his/her Unit at the earliest possible time; and

(c) where possible, ensure that appropriate substitution or make-up instruction is provided.

2.12 Evaluation. Academic Staff shall adhere to the relevant Senate-approved policy regarding professor-course evaluation.

2.13 Reporting Student Grades. Academic Staff who provide instruction shall comply with the schedules and formats for reporting student grades, as established by their Unit and the Registrar's Office. Where such grades are reviewed by Unit committees, Academic Staff should be available for the duration of the committees' work. Academic Staff must also correct any grade errors of which they become aware in a timely manner and notify the Student accordingly.

2.14 Term Work. Academic Staff shall adhere to Unit-specific policies regarding return and/or retention of term work. In the absence of Unit-specific policies, all term work shall be returned to the Student. Any unclaimed term work will be held by the Unit for 4 months from the end of the term in which the work was assigned. At the conclusion of this time, all unclaimed term work will become property of the Unit and be destroyed according to the University's common records schedule, using confidential measures for disposal.

2.15 Class Size. Where necessitated by large class sizes or other circumstances, the Unit shall ensure that Academic Staff and/or designated substitutes are available for individual consultation with Students for a reasonable amount of time on a known and posted basis.

Collective Responsibilities of Academic Staff

2.16 Course Descriptions. Through their Unit councils, Academic Staff members should review program and course descriptions periodically to ensure that the material to be presented is current and appropriate and that the Calendar information is clear and accurate.

2.17 Materials. The following material must be kept on file in the Unit's general offices and made available to Students:

(a) University and Unit policy and procedures regarding class attendance and penalties, if any, for non-compliance;

(b) the information described in section 2.5 of this Procedure in regards to materials to be provided to Students by the Academic Staff of each course section;

(c) University and Unit policy and procedures regarding the evaluation of professors and courses by Students;

(d) University and Unit policy and procedures regarding student access to final examination scripts;

(e) University policy and procedures on student discipline;

(f) University and Unit policy and procedures regarding grade appeals;

(g) University policy and related procedures on the Responsibilities of Academic Staff with regard to Students;

(h) University policy and protocol regarding responding to sexual assault;

(i) University policy and related procedures on Respectful Work and Learning Environment;

(j) University policy and related procedures on Accessibility for Students with Disabilities; and

(k) University policy and related procedures on Intellectual Property.

2.18 Instruction. The Unit should ensure the provision of names of Academic Staff assigned to teach particular courses and sections at the earliest possible opportunity;

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Procedure is required.

3.2 The Vice-Provost (Academic Affairs) is responsible for the implementation, administration and review of this Procedure.

3.3 Academic Staff and Academic Administrators are responsible for complying with this Procedure.

Part IV Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Procedure is September 1, 2026.

4.2 In the interim, this Procedure may be revised or repealed if:
(a) the Provost and Vice-President (Academic) or Approving Body deems it necessary or desirable to do so;
(b) the Procedure is no longer legislatively or statutorily compliant;
(c) the Procedure is now in conflict with another Governing Document; and/or
(d) the Parent Policy is revised or repealed.

Part V Effect on Previous Statements

5.1 This Procedure supersedes all of the following:
(a) Responsibilities of Academic Staff with regard to Students Policy, effective July 4, 1979 and revised June 25, 1998;
(b) Cancellation of Scheduled Classes Policy, effective November 30, 1971 and revised November 29, 1988;
(c) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
(d) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Responsibilities of Academic Staff with Regard to Students Policy;
- (b) Schedule "A": Policy and Resource Document;
- (c) Conflict of Interest Policy;
- (d) Conflict of Interest between Evaluators and Students due to Close Personal Relationships Policy;
- (e) Electronic Communication with Students Policy;
- (f) Final Examination and Final Grades Policy;
- (g) Grade Point Averages Policy;
- (h) Intellectual Property Policy;
- (i) Multi-Sectioned Courses Policy;
- (j) Respectful Work and Learning Environment Policy;
- (k) Sexual Assault Policy;
- (l) Responsible Conduct of Research Policy;
- (m) Student Advocacy Office Policy;
- (n) Student Discipline Bylaw;
- (o) Student Academic Misconduct Procedure;
- (p) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (q) Student Discipline Appeal Procedure;
- (r) Teaching Evaluation Policy;
- (s) The University of Manitoba Accessibility Policy;
- (t) University Health Services Policy;
- (u) Voluntary Withdrawal Policy.

SCHEDULE "A": POLICIES AND RESOURCES

1. In accordance with section 2.6 of the Responsibilities of Academic Staff with Regard to Students procedure, Academic Staff shall provide the following information to every student within the first week of classes, either through a paper copy and/or via the University's student information system (Aurora, UM Learn, or such other University information system as may be approved by the University from time to time):

- (a) A list of academic supports available to Students, such as the Academic Learning Centre, Libraries and other supports as may be appropriate;
- (b) A statement regarding mental health that includes referral information to resources and student supports, such as Student Counselling Centre,

- University Health Services and other supports as may be appropriate;
- (c) A notice to respect copyright, with a reference directing Students to the University's Copyright Office;
- (d) A statement directing the Student to University and Unit policies, procedures and supplemental regulations available online, with special direction to review the University's policies and procedures regarding:
 - (i) Academic Dishonesty: plagiarism, cheating and examination impersonation;
 - (ii) Student access to final examination scripts;
 - (iii) Student discipline;
 - (iv) Grade appeals;
 - (v) Student advocacy;
 - (vi) Respectful Work and Learning Environment;
 - (vii) Sexual Assault; and
 - (viii) Intellectual Property.

2. The University's Centre for Advancement Teaching and Learning will compile sample language and templates for Academic Staff to use in fulfilling the above requirements.

This Policy is available online at:

http://umanitoba.ca/admin/governance/governing_documents/students/278.html

Respectful Work and Learning Environment and Sexual Assault Policy

Respectful Work and Learning Environment Policy

Part I Reason for Policy

- 1.1 The reason for this Policy is to:
- (a) Promote and support a respectful work and learning environment at the University; and
 - (b) Ensure compliance with relevant legislation, including The Human Rights Code (Manitoba), and The Workplace Health and Safety Regulation (Manitoba).

Part II Policy Content Definitions

- 2.1 The following terms are defined for the purpose of this Policy:
- (a) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
 - (b) "Breach" means any conduct, behaviour, action or omission which is prohibited under this Policy or the Procedure, including but not limited to Discrimination, Harassment, and Reprisals.
 - (c) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
 - (d) "Committee" means the Human Rights Advisory Committee, established pursuant to section 2.13 of this Policy.
 - (e) "Complainant" means the individual or individuals bringing forward a complaint of a Breach.
 - (f) "Designated Officer" means the Vice-President (Administration), or designate.
 - (g) "Discrimination" has the same meaning as defined in section 2.5 of the Procedure.
 - (h) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
 - (i) "Formal Complaint" means a complaint to the Human Rights and Conflict Management Officer that is in writing and contains, at minimum, the following information:
 - (i) The name of the Complainant and contact information for the Complainant;

- (ii) A description of the alleged Breach;
 - (iii) The approximate date of the alleged Breach, being within 1 year from the date of the most recent alleged incident unless, in the discretion of the Human Rights and Conflict Management Officer, extenuating circumstances would warrant an extension of time;
 - (iv) The name of the Respondent;
 - (v) Contact information for the Respondent, if known;
 - (vi) An indication that the Complainant desires the complaint to be the subject of an Investigation; and
 - (vii) The Complainant's signature.
- (j) "Harassment" refers to Personal Harassment, Human Rights Based Harassment, and/or Sexual Harassment as defined in section 2.10 of the Procedure.
- (k) "Human Rights and Conflict Management Officer" or "HRCMO" means an individual appointed by the University of Manitoba as someone possessing the appropriate training and skills to fulfill the role outlined in section 2.17 of this Policy.
- (l) "Informal Resolution" means the resolution of an alleged Breach to the satisfaction of the Complainant and the Respondent, without an Investigation being completed.
- (m) "Investigation" means a formal investigation of an alleged Breach conducted in accordance with the Procedure.
- (n) "Investigator" means one or more persons appointed as the investigator of an alleged Breach, pursuant to section 2.36 of the Procedure.
- (o) "Policy" means this Respectful Work and Learning Environment Policy.
- (p) "Preliminary Assessment" means the initial review of a Formal Complaint, in accordance with sections 2.23 to 2.28 of the Procedure.
- (q) "Procedure" means the RWLE and Sexual Assault Procedure.
- (r) "Protected Characteristic" has the same meaning as defined in section 2.6 of the Procedure.
- (s) "Reasonable Accommodation" means an accommodation of the special needs of any individual or group, if those special needs are based upon any Protected Characteristic, that is reasonable but not necessarily perfect in the circumstances, that does not cause undue hardship to the University, and does not compromise bona fide and reasonable requirements of the University.
- (t) "Reprisal" has the same meaning as defined in section 2.57 of the Procedure.
- (u) "School" means a "School of the University" or a "School of the Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (v) "University" means The University of Manitoba.
- (w) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, students, volunteers, external parties, contractors and suppliers.
- (x) "University Matter" has the same meaning as defined in section 2.3 of the Procedure.

Vision for the University Community

2.2 The University wishes to promote and support a community which embraces diversity and inclusion, provides for equality of opportunity, and recognizes the dignity of all people.

2.3 Members of the University Community, including every student and employee, are entitled to a respectful work and learning environment that is:

- (a) Free from Discrimination and provides for Reasonable Accommodation;
- (b) Free from Harassment; and
- (c) Collegial and conducive to early resolution of conflict between members of the University Community.

2.4 A respectful work and learning environment is critical to the success and proper functioning of the University. Whether behaviour is viewed as respectful can be influenced by place, time, and context.

2.5 The University wishes to encourage early resolution of conflict between members of the University Community, and to provide guidance to managers, Academic Staff and Unit Heads on addressing behaviour that falls short of Harassment or Discrimination, but that nevertheless has a negative impact on the work and learning environment for which they are responsible.

2.6 Managers, Academic Staff and Unit Heads must encourage a respectful environment within the work and learning environments for which they are primarily responsible. They are expected to identify and address issues of

concern in a timely manner, recognizing the value of early intervention. The University will provide training and resources to assist managers, Academic Staff and Unit Heads to fulfil these expectations.

Implementation of Vision

2.7 In furtherance of its vision, the University will:

- (a) Through various academic and administrative units and programs, educate members of the University Community about:
 - (i) The University's general expectations for respectful conduct;
 - (ii) The rights and obligations of members of the University Community under this Policy and the Procedure; and
 - (iii) Best practices to facilitate early resolution of conflict between members of the University Community and/or to address behaviour that falls short of Harassment or Discrimination, but nevertheless has a negative impact on the work and learning environment.
- (b) Ensure, so far as is reasonably practicable, that:
 - (i) No member of the University Community is subjected to Discrimination or Harassment while participating in a University Matter;
 - (ii) No employee is subjected to Discrimination or Harassment in the workplace; and
 - (iii) No student is subjected to Discrimination or Harassment in the learning environment;
- (c) Adopt procedures, protocols, and practices which will encourage individuals to bring concerns about an alleged Breach to an appropriate authority, including provisions to protect against Reprisal those who bring forward such allegations;
- (d) Provide supports to encourage and facilitate the Informal Resolution of an alleged Breach where appropriate;
- (e) Take action respecting any person under the University's direction who subjects a student, an employee, or any other member of the University Community, to Discrimination or Harassment;
- (f) Supplement existing policies, procedures or bylaws, by providing a mechanism for the Investigation of an alleged Breach; and
- (g) Adopt procedures, protocols and practices which promote the creation of a respectful environment, including providing guidance on how to deal with matters of concern which do not constitute Harassment or Discrimination.

2.8 The University is committed to promoting a respectful work and learning environment by encouraging all members of the University Community to:

- (a) Bring forward credible evidence of a Breach of which they become aware, to an appropriate authority;
- (b) Provide reasonable cooperation in an Investigation of a Breach; and
- (c) Be aware of their rights and responsibilities under this Policy.

2.9 Discipline may be implemented against any person whose behaviour is found to have caused or contributed to a Breach or other violation of this Policy and the Procedure.

Awareness Building and Responsibilities

2.10 All members of the University Community have a responsibility to educate themselves as to expectations for respectful conduct and reporting requirements as outlined in this Policy and the Procedure.

2.11 All members of the University Community, especially those in an instructional, supervisory or managerial position, have a duty to educate those for whom they are responsible regarding expectations for respectful conduct, including this Policy and the Procedure. It is further the duty of such individuals to deal appropriately with allegations regarding Breaches or other violations of this Policy and the Procedure.

2.12 The University, through the Office of Human Rights and Conflict Management and other units as appropriate, will provide information to and respond to inquiries from the University Community regarding the University's expectations for respectful conduct and the rights and obligations of members of the University Community under this Policy and the Procedure.

Human Rights Advisory Committee

2.13 The University will establish a Human Rights Advisory Committee, with a membership consisting of:

- (a) The Associate Vice-President (Human Resources) or designate;
- (b) The Vice-Provost (Students) or designate; and
- (c) The Vice-Provost (Academic Affairs) or designate, provided that the designate holds an academic appointment with the University.

2.14 The mandate of the Committee is to:

(a) Hear appeals from Preliminary Assessment decisions, in accordance with the Procedure;

(b) Receive and review the HRCMO's annual report under section 2.18 of this Policy;

(c) Provide advice and guidance on potential amendments or revisions to this Policy and the Procedure.

2.15 If any member of the Committee is unable or unwilling to fulfill his/her responsibilities under this Policy and the Procedure, or if the subject matter of a Formal Complaint is such that it would be inappropriate for that member of the Committee to review the matter for reason of conflict of interest or any other reason, the HRCMO will ask the President to appoint an alternate to act in place of that member. The alternate may be any person with a direct report to the Vice-President (Administration) or Provost and Vice-President (Academic), or any other employee of the University, who:

(a) Has skills and/or experience desirable in the circumstances;

(b) Would be able to review the Formal Complaint in an unbiased manner; and

(c) Would not be placed in a conflict of interest.

2.16 Any appointment under section 2.15 must be made with notice to the Complainant.

Role of HRCMO

2.17 The Human Rights and Conflict Management Officer (HRCMO) will:

(a) Provide advice and guidance to the University Community on how to best implement this Policy and the Procedure;

(b) Facilitate education and training opportunities for members of the University Community regarding their rights and obligations under this Policy and the Procedure;

(c) Conduct Preliminary Assessments of Formal Complaints;

(d) Provide information to both the Complainant and Respondent regarding opportunities and resources available to facilitate Informal Resolution of concerns and, where appropriate, coordinate communications between Complainants and Respondents on the understanding that such communications will not be provided to the Investigator if the matter moves to a Formal Complaint;

(e) Identify and track trends in matters relating to this Policy and the Procedure, and provide advice and guidance to the administration and the University Community on such trends; and

(f) Provide advice and guidance on potential amendments or revisions to this Policy and the Procedure.

Annual Report

2.18 The HRCMO will produce and provide an annual report to the Designated Officer and the Committee, outlining:

(a) De-identified data regarding the number and types of complaints received;

(b) De-identified data regarding the number and types of Investigations conducted;

(c) Information regarding observable trends;

(d) De-identified information regarding particularly important cases;

(e) Information on educational activities; and

(f) Other relevant information which may further the implementation of the Policy and its Procedures.

2.19 The annual report will be made available to the University Community.

Balancing of Rights

2.20 Nothing in this Policy or the Procedure is intended to detract from the academic freedom of the University's Academic Staff.

2.21 Nothing in this Policy or the Procedure is intended to compromise the University's academic standards or the integrity of its programs. The University encourages diversity and Reasonable Accommodation, but will also vigorously defend bona fide academic requirements.

2.22 The University encourages informed debate which may, from time to time, include discussion of unpopular opinions or controversial material. Such material may be used to further scholarly pursuits, provided that the communication is compatible with the principles of human rights, the Criminal Code, and the principles of respectful behaviour embodied in this Policy and the Procedure. Opinions must be expressed in a manner which is not in Breach of this Policy or the Procedure.

2.23 This Policy and the Procedure applies to the general workplace, but is not intended to:

(a) Detract from academic freedom;

(b) Regulate teaching techniques and pedagogy; or

(c) Limit the legitimate work of managers, supervisors and academic administrators to assign work and provide feedback on work or performance.

Additional Protections

2.24 The University will not disclose the name of a Complainant or Respondent or the circumstances related to a complaint of alleged Breach except where disclosure is:

(a) Necessary to investigate the complaint or take corrective action with respect to the complaint; or

(b) Required by law.

2.25 Nothing in this Policy or the Procedure is intended to discourage or prevent a member of the University Community, including students and employees, from filing a complaint with the Manitoba Human Rights Commission, or from exercising any other legal rights pursuant to any other law.

2.26 Nothing in this Policy or the Procedure is intended to limit the rights of an employee governed by a collective agreement. If there is any ambiguity or conflict between this Policy or the Procedure, and a collective agreement, the collective agreement will prevail.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Policy is required.

3.2 The Vice-President (Administration) is responsible for the implementation, administration and review of this Policy.

3.3 All members of the University Community are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

4.1 The Vice-President (Administration) may approve procedures, if applicable, which are secondary to and comply with this Policy, including but not limited to:

(a) A procedure to supplement existing policies, procedures or bylaws, by providing a mechanism for the Investigation of an alleged Breach, including regarding:

(i) Receipt and review of complaints;

(ii) The circumstances under which an Investigation should take place;

(iii) Appointment of investigators;

(iv) Conduct of an Investigation, in accordance with the principles of procedural fairness and natural justice;

(v) Respecting the confidentiality of information collected in relation to complaints and Investigations;

(vi) Protecting individuals against Reprisal;

(vii) Protecting individuals against unfounded allegations of a Breach;

(viii) Producing a report at the conclusion of an Investigation; and

(ix) Implementing discipline, if necessary.

(b) Generally defining the responsibility, authority and accountability of members of the University Community under this Policy.

Part V

Review

5.1 Governing Document reviews shall be conducted every three (3) years. The next scheduled review date for this Policy is June 22, 2019.

5.2 In the interim, this Policy may be revised or repealed by Approving Body if:

(a) The Vice-President (Administration) or the Approving Body deems it necessary or desirable to do so;

(b) The Policy is no longer legislatively or statutorily compliant; and/or

(c) The Policy is now in conflict with another Governing Document.

5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

(a) Comply with the revised Policy; or

(b) Are in turn repealed.

Part VI Effect on Previous Statements

6.1 This Policy supersedes all of the following:

- (a) Respectful Work and Learning Environment Policy, dated January 27, 2009;
- (b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (c) all previous Administration Governing Documents on the subject matter contained herein.

Part VII Cross References

7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) RWLE and Sexual Assault Procedure;
- (b) Sexual Assault Policy;
- (c) Academic Freedom and Responsibilities Policy;
- (d) Access and Privacy Policy and Procedure;
- (e) Definitions of Academic Units Policy;
- (f) Records Management Policy and Procedure;
- (g) Responsible Conduct of Research Policy;
- (h) Student Discipline Bylaw;
- (i) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (j) Student Discipline Appeal Procedure;
- (k) Violent or Threatening Behaviour Policy and Procedure;
- (l) Use of Computer Facilities Policy and Procedure;
- (m) Criminal Code, RSC 1985, c C-46.
- (n) The Human Rights Code, C.C.S.M. c. H175;
- (o) Workplace Safety and Health Regulation, 217/2006.

Respectful Work and Learning Environment and Sexual Assault Procedures

Part I Reason for Procedure

1.1 The reason for this Procedure is to:

- (a) Promote and support a respectful work and learning environment at the University;
- (b) Provide specific guidance for the University Community regarding expectations for respectful conduct;
- (c) Provide a mechanism for the consideration of complaints of Harassment, Discrimination, Sexual Assault, or Reprisal, for Informal Resolution of concerns regarding the work and learning environment, and for the Investigation of an alleged Breach; and
- (d) Ensure compliance with relevant legislation, including The Human Rights Code (Manitoba), and The Workplace Health and Safety Regulation (Manitoba).

1.2 Nothing in this Procedure is intended to detract from academic freedom of the University's Academic Staff.

1.3 Nothing in this Procedure is intended to detract from the rights and duties of those with supervisory authority to manage, and if necessary to discipline faculty, employees and students, in accordance with applicable legislation or common law, collective agreements or University policies, procedures or bylaws.

1.4 This Procedure is not intended to be an exhaustive list of all issues of conduct which may arise in the University Community.

Part II Procedural Content Definitions

2.1 The following terms are defined for the purpose of this Procedure:

- (a) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a

dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.

(b) "Breach" means any conduct, behaviour, action or omission which is prohibited under the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure, including but not limited to Discrimination, Harassment, Sexual Assault, and Reprisals.

(c) "College" means a Professional College as defined under the Definitions of Academic Units Policy.

(d) "Committee" means the Human Rights Advisory Committee established pursuant to section 2.13 of the Respectful Work and Learning Environment Policy or pursuant to section 2.20 of the Sexual Assault Policy to:

- (i) Hear appeals from Preliminary Assessment decisions, in accordance with this Procedure;
- (ii) Receive and review the HRCMO's annual report under section 2.18 of the Respectful Work and Learning Environment Policy and under section 2.25 of the Sexual Assault Policy; and
- (iii) Provide advice and guidance on potential amendments or revisions to the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, and/or this Procedure.

(e) "Complainant" means the individual or individuals bringing forward a complaint of a Breach.

(f) "Consent" has the same meaning as defined in section 2.14 of this Procedure.

(g) "Designated Officer" means the Vice-President (Administration), or designate.

(h) "Discrimination" has the same meaning as defined in section 2.5 of this Procedure.

(i) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.

(j) "Formal Complaint" means a complaint to the Human Rights and Conflict Management Officer under the Respectful Work and Learning Environment Policy or the Sexual Assault Policy that is in writing and contains, at minimum, the following information:

- (i) The name of the Complainant and contact information for the Complainant;
 - (ii) A description of the alleged Breach;
 - (iii) The approximate date of the alleged Breach, being within 1 year from the date of the most recent alleged incident unless, in the discretion of the Human Rights and Conflict Management Officer, extenuating circumstances would warrant an extension of time;
 - (iv) The name of the Respondent;
 - (v) Contact information for the Respondent, if known;
 - (vi) An indication that the Complainant desires the complaint to be the subject of an Investigation; and
 - (vii) The Complainant's signature.
- (k) "Harassment" refers to Personal Harassment, Human Rights Based Harassment, and/or Sexual Harassment as defined in section 2.10 of this Procedure.

(l) "Human Rights and Conflict Management Officer" or "HRCMO" means an individual appointed by the University of Manitoba as someone possessing the appropriate training and skills to fulfill the role outlined in section 2.17 of the Respectful Work and Learning Environment Policy and section 2.24 of the Sexual Assault Policy.

(m) "Informal Resolution" means the resolution of an alleged Breach to the satisfaction of the Complainant and the Respondent, without an Investigation being completed.

(n) "Investigation" means a formal investigation of an alleged Breach conducted in accordance with this Procedure.

(o) "Investigator" means one or more persons appointed as the investigator of an alleged Breach, pursuant to section 2.36 of this Procedure.

(p) "Preliminary Assessment" means the initial review of a Formal Complaint, in accordance with sections 2.23 to 2.28 of this Procedure.

(q) "Procedure" refers to this RWLE and Sexual Assault Procedure.

(r) "Protected Characteristic" has the same meaning as defined in section 2.6 of this Procedure.

(s) "Reasonable Accommodation" means an accommodation of the special needs of any individual or group, if those special needs are based upon any Protected Characteristic, that is reasonable but not necessarily perfect in

the circumstances, that does not cause undue hardship to the University, and does not compromise bona fide and reasonable requirements of the University.

(t) "Report" has the same meaning as defined in section 2.46 of this Procedure.

(u) "Reprisal" has the same meaning as defined in section 2.57 of this Procedure.

(v) "Representative" means:

(i) in the case of a student, a Student Advocate, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, a member of the student's immediate family or other support person as may be appropriate;

(ii) in the case of an employee, a union representative, lawyer, or support person as may be appropriate; and

(iii) in the case of another member of the University Community, a lawyer or support person as may be appropriate.

(w) "Respondent" means an individual or individuals accused of having caused or contributed to a Breach.

(x) "School" means a "School of the University" or a "School of the Faculty", as those terms are defined under the Definitions of Academic Units Policy.

(y) "Sexual Assault" has the same meaning as defined in section 2.13 of this Procedure.

(z) "STATIS" means the Student/Staff Threat Assessment Triage Intervention Support team comprised of the following representatives:

(i) Vice-Provost (Students);

(ii) Associate Vice-President (Human Resources);

(iii) Director, Security Services;

(iv) Executive Director, Student Support;

(v) Student Support Case Manager; and

(vi) Legal Counsel.

(aa) "Student Advocate" is a member of the University's Student Advocacy Office who provides students with information on their rights and responsibilities, as well as assistance with resolving problems or concerns resulting from actions or decisions taken by the University.

(bb) "Unit" means a Faculty, College, School, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or Vice-Provost. An academic department within a Faculty or School is not a Unit as the term is used within this Procedure.

(cc) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents, and Vice-Provosts with respect to their Units.

(dd) "University" means The University of Manitoba.

(ee) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, students, volunteers, external parties, contractors and suppliers.

(ff) "University Instituted Investigation" means an Investigation initiated by the Designated Officer in consultation with the HRCMO, pursuant to section 2.34 of this Procedure.

(gg) "University Matter" has the same meaning as defined in section 2.3 of this Procedure.

SCOPE

2.2 This Procedure applies to members of the University Community in relation to any University Matter.

2.3 "University Matter" means any activity, event, or undertaking in which a member of the University Community participates, which has a substantial connection to the University, such as:

(a) University-related activities or events, including but not limited to:

(i) Any activity or event on property owned or controlled by the University;

(ii) The leasing of space, including student residence rooms, on property owned or controlled by the University;

(iii) The offering of any service by the University, including educational services;

(iv) Student placements, practica, or clinical training;

(v) University research activities, whether on or off campus;

(vi) Student and/or employee exchanges arranged in connection with the University;

(vii) Social events or networking, where matters regarding the University or members of the University Community are a significant focus of the activity;

(viii) University field trips, travel-study tours, service-learning activities, and similar activities;

(b) Activities or events involving members of the University Community, where the actions of those members of the University Community may reasonably reflect upon or affect the University, including but not limited to:

(i) Any aspect of the employment or engagement of employees and contractors for roles and projects substantially connected to the University;

(ii) Participation on a committee or board as a representative of the University;

(iii) Writings, photographs, artwork, audio or video recordings, and/or electronic communications, including communications through social media, where matters regarding the University or members of the University Community are a significant focus of the communication;

(iv) Matters related to The University of Manitoba Students' Union, the Graduate Students' Association, and their affiliated student groups to the extent that it affects the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments; or

(v) Matters of off-campus conduct that have, or might reasonably be seen to have an adverse effect on the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments.

PROHIBITED CONDUCT

Discrimination

2.4 Subject to section 2.8 of this Procedure, any member of the University Community who commits Discrimination in relation to a University Matter will be subject to discipline.

2.5 "Discrimination" means an intentional or unintentional act or omission resulting in:

(a) Differential treatment of:

(i) An individual on the basis of the individual's actual or presumed membership in or association with some class or group of persons, rather than on the basis of personal merit;

(ii) an individual or group on the basis of any Protected Characteristic;

(iii) an individual or group on the basis of the individual or group's actual or presumed association with another individual or group whose identity or membership is determined by any Protected Characteristic;

(b) Failure to make Reasonable Accommodation for the special needs of an individual or group, if those needs are based upon a Protected Characteristic.

2.6 "Protected Characteristic" means those characteristics listed in The Human Rights Code (Manitoba) (as amended from time to time) as being protected, which at the time of approval of this Procedure include:

(a) Ancestry, including colour and perceived race;

(b) Nationality or national origin;

(c) Ethnic background or origin;

(d) Religion or creed, or religious belief, religious association or religious activity;

(e) Age;

(f) Sex, including sex-determined characteristics or circumstances, such as pregnancy, the possibility of pregnancy, or circumstances related to pregnancy;

(g) Gender identity;

(h) Sexual orientation;

(i) Marital or family status;

(j) Source of income;

(k) Political belief, political association or political activity;

(l) Physical or mental disability or related characteristics or circumstances, including reliance on a service animal, a wheelchair, or any other remedial appliance or device;

(m) Social disadvantage.

2.7 Examples of Discrimination include, but are not limited to:

(a) Systemic discrimination resulting from interrelated actions, policies, or rules which together have a discriminatory effect;

(b) Evaluations of performance based on a Protected Characteristic;

(c) Establishment of a scholarship, bursary, or other award which provides for differential treatment of a particular group, subject to 2.8 of this

Procedure; or

(d) Failure to provide a Reasonable Accommodation.

2.8 Acts or omissions which would otherwise be Discrimination under this Procedure are permitted where:

(a) There is a bona fide and reasonable cause for the Discrimination.

(b) The acts or omissions are intended and likely to:

(i) Make Reasonable Accommodation for the special needs of an individual or group; or

(ii) Ameliorate the conditions of disadvantaged individuals or groups, including those disadvantaged by a Protected Characteristic.

(c) The acts or omissions are in the context of a research project that has received all required research ethics approvals.

Harassment

2.9 Any member of the University Community who commits Harassment in relation to a University Matter will be subject to discipline.

2.10 "Harassment" refers to:

(a) "Personal Harassment", which means offensive behaviour directed towards another person and not connected to a Protected Characteristic, including but not limited to:

(i) A severe single incident or a series of incidents of objectionable and unwelcome conduct or comments, directed toward a specific person or group, which does not serve a reasonable work or academic purpose, and objectively would have the effect of creating an intimidating, humiliating, hostile or offensive work or learning environment;

(ii) Verbal or written abuse, threats or intimidation that objectively is humiliating or demeaning;

(iii) Objectionable and unwelcome conduct or comments that objectively impacts the mental or physical health of another person;

(b) "Human Rights Based Harassment", which means offensive behaviour connected to a Protected Characteristic, including but is not limited to:

(i) A severe single incident or a series of incidents of objectionable and unwelcome conduct or comments, directed toward a specific person or group, which objectively would have the effect of creating an intimidating, humiliating, hostile or offensive work or learning environment;

(ii) Verbal or written abuse, threats or intimidation that objectively is humiliating or demeaning;

(iii) Objectionable and unwelcome conduct or comments that objectively impacts the mental or physical health of another person;

(iv) Sexual Harassment.

(c) "Sexual Harassment", which is a form of Human Rights Based Harassment and refers to a course of objectionable and unwelcome conduct or comments undertaken or made on the basis of the Protected Characteristics 2.6(f), 2.6(g), or 2.6(h), including but not limited to:

(i) Unwanted sexual attention, including persistent invitations for dates, by a person who knows or ought reasonably to know that such attention is unwanted or unwelcome;

(ii) Gender-based abusive or unwelcome conduct or comments that would objectively have the effect of creating an intimidating, humiliating, hostile or offensive work or learning environment;

(iii) Sexist jokes or remarks, including comments regarding a person's appearance or clothing;

(iv) Leering, ogling, or other sexually oriented gestures;

(v) Questions about a person's sexual history, sexuality, sexual orientation, or sexual identity by a person who knows or ought reasonably to know that the questions are unwanted or unwelcome;

(vi) Offensive physical contact by a person who knows or ought reasonably to know that the contact is unwanted or unwelcome;

(vii) A single sexual solicitation or advance or a series of solicitations or advances made by a person who is in a position to confer any benefit on or deny any benefit to the recipient, and who knows or ought reasonably to know that the solicitation or advance was unwanted or unwelcome; or

(viii) A Reprisal for rejecting a sexual solicitation or advance.

2.11 It is not Harassment or otherwise a violation of this Procedure for:

(a) A supervisor or manager to engage in the legitimate evaluation of the performance of an employee or contractor, or otherwise overseeing their work;

(b) Academic Staff to engage in the academic evaluation of a student's work;

(c) A good faith and formal evaluation of an Academic Staff member or supervisor;

(d) A legitimate peer review or other critique of research or academic work;

(e) A Unit Head to take actions intended to address or deter violent, threatening, or intimidating behaviour, or behaviour which significantly disrupts the University and members of the University Community.

Sexual Assault

2.12 Any member of the University Community who commits Sexual Assault in relation to a University Matter will be subject to discipline.

2.13 "Sexual Assault" means the intentional sexual touching of another person with any object or body part without Consent or by force.

2.14 "Consent" means the voluntary agreement of the person to engage in the sexual activity in question. Without limiting the foregoing, no Consent is obtained where:

(a) the person submits or does not resist by reason of the application of force to the person or to someone other than the person;

(b) the person submits or does not resist by reason of threats or fear of the application of force to the person or to someone other than the person;

(c) the person submits or does not resist by reason of fraud or blackmail;

(d) the person submits or does not resist by reason of the exercise of authority;

(e) the agreement is expressed by the words or conduct of someone other than the person;

(f) the person is incapable of consenting to the activity due to age, consumption of drugs or alcohol, or due to some other mental or physical incapacity;

(g) the accused induces the person to engage in the activity by abusing a position of trust, power or authority;

(h) the person expresses, by words or conduct, a lack of agreement to engage in the activity; or

(i) the person, having consented to engage in sexual activity, expresses, by words or conduct, a lack of agreement to continue to engage in the activity.

COMPLAINT PROCEDURE

Making a Complaint

2.15 Any person, whether or not a member of the University Community, may contact the HRCMO to raise a concern regarding Discrimination, Harassment, Sexual Assault, or Reprisal, or to make a Formal Complaint. Any other concerns regarding conduct or conflict that is not supportive of a respectful work and learning environment should be addressed with the appropriate manager, Academic Staff, or Unit Head responsible for the affected environment, in accordance with sections 2.5 of the Respectful Work and Learning Environment Policy.

2.16 Wherever practical, the HRCMO may encourage Informal Resolution of a complaint of a Breach.

2.17 If a Complainant wishes the complaint to be the subject of an Investigation, the Complainant must file a Formal Complaint no later than 1 year after the alleged Breach, or where a continuing contravention is alleged, no later than 1 year after the last alleged instance of the Breach.

2.18 Where the Complainant is not the person against whom the Breach is alleged to have occurred, the HRCMO will have discretion to:

(a) Refuse to accept the Complaint unless the person against whom the Breach is alleged to have occurred consents to the filing of the Formal Complaint; or

(b) Conduct a Preliminary Assessment and/or recommend a University-Instituted Investigation.

2.19 Where a Formal Complaint refers to an urgent allegation of Reprisal, the HRCMO will advise the Designated Officer and any such persons as believed necessary to discuss and implement interim measures. Interim measures may be implemented by the Designated Officer or the Unit Head. Informal Resolution

2.20 Subject to section 2.22 of this Procedure, the HRCMO will provide information to both the Complainant and Respondent regarding the opportunities and resources available to facilitate Informal Resolution of an alleged Breach.

2.21 The HRCMO may develop and adopt guidelines and other documents secondary to and consistent with the Respectful Work and Learning Environment Policy and the Sexual Assault Policy and this Procedure, which outline Informal Resolution options and the processes related to each option.

2.22 The HRCMO may decide not to facilitate an Informal Resolution process where:

(a) Successful resolution is unlikely;

(b) The concerns were not brought forward in a timely manner; or
 (c) A full Investigation would better serve the University and the purposes of the Respectful Work and Learning Environment Policy and/or the Sexual Assault Policy.

Preliminary Assessment of Formal Complaints.

2.23 The HRCMO will conduct a Preliminary Assessment for each Formal Complaint to determine whether or not an Investigation should proceed in accordance with this Procedure. Except in extenuating circumstances, the HRCMO will complete a Preliminary Assessment of a Formal Complaint within 30 working days of receiving the Formal Complaint.

2.24 A Formal Complaint will not proceed to Investigation, and no further action is required by the HRCMO or the University, if the Formal Complaint does not strictly meet the requirements of section 2.1(j) of this Procedure, including but not limited to where the Formal Complaint is not in writing, is anonymous, is out of time, or does not contain all the required information.

2.25 Notwithstanding subsection 2.24 and subject to subsection 2.55 of this Procedure, the HRCMO may exercise his or her discretion to accept a non-compliant Formal Complaint or to bring a non-compliant Formal Complaint to the attention of the Designated Officer for consideration of a University Instituted Investigation.

2.26 In making his or her Preliminary Assessment, the HRCMO will consider whether:

(a) The Formal Complaint deals with a Breach to which the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure applies;

(b) The Formal Complaint appears credible, to have been made in good faith, and not to be frivolous or vexatious;

(c) The issues disclosed by the Formal Complaint have not been or are not in the process of being addressed in another forum or pursuant to a collective agreement or University policy, procedure or bylaw, which would deal comprehensively with the alleged Breach;

(d) The issues disclosed by the Formal Complaint would more appropriately be dealt with in another forum or through another process;

(e) The matters included in the Formal Complaint are of sufficient seriousness to warrant an Investigation;

(f) An Investigation would serve the University in furthering the objectives under the Respectful Work and Learning Environment Policy and/or the Sexual Assault Policy; and

(g) The Complainant has attempted to address the matters included in the Formal Complaint through Informal Resolution, pursuant to the Respectful Work and Learning Environment Policy, the Sexual Assault Policy and this Procedure.

2.27 The HRCMO will advise the Complainant in writing of his or her decision on the Preliminary Assessment. Where the Formal Complaint is not accepted to proceed to an Investigation, the HRCMO will include brief reasons for his or her decision. Where the Preliminary Assessment was not completed within 30 working days, the Complainant will also be informed as to the reason for the delay.

2.28 A Formal Complaint that is not accepted to proceed to an Investigation after Preliminary Assessment and appeal of the Preliminary Assessment, if any, will require no further action by the HRCMO or by the University.

Appeal of Preliminary Assessment

2.29 If a Formal Complaint is dismissed by the HRCMO on Preliminary Assessment, the Complainant may appeal the HRCMO's decision by giving notice and submissions in writing to the Designated Officer within 10 working days from the date of the HRCMO's decision. The submissions must include:

(a) A letter to the Designated Officer clearly explaining the grounds for the appeal, with specific reference to section 2.30 of this Procedure;

(b) A copy of the letter of decision from the HRCMO; and

(c) A copy of all of the documentation submitted to the HRCMO with the Formal Complaint (no new documentation can be submitted at this time).

2.30 The grounds for an appeal of a Preliminary Assessment include:

(a) Failure of the HRCMO to follow the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure;

(b) Failure of the HRCMO to reasonably consider all factors relevant to the decision being appealed;

(c) Failure of the HRCMO to comply with applicable legislation.

2.31 The Designated Officer will immediately forward the Complainant's notice and submissions to the Committee, who will make a decision based

on the written submissions within 10 working days. The Committee may:

(a) Cause the HRCMO to appoint an Investigator; or

(b) Confirm the decision to dismiss the Formal Complaint.

2.32 The Committee will provide brief written reasons for its decision to the HRCMO and the Complainant. The decision of the Committee will be final.

2.33 The Committee may develop and adopt additional guidelines and other documents secondary to and consistent with the Respectful Work and Learning Environment Policy, the Sexual Assault Policy and this Procedure for the process of appeal of a Preliminary Assessment.

University Instituted Investigation

2.34 "University Instituted Investigation" means an Investigation initiated at the discretion of the Designated Officer, where:

(a) A non-compliant Formal Complaint was received, but disclosed a credible issue of sufficient importance to warrant an Investigation;

(b) Matters come to the attention of the Designated Officer that lead him or her to believe there has been a Breach of sufficient importance to warrant an Investigation; or

(c) It would be more practical to conduct a single broad Investigation, than addressing a series of Formal Complaints from two or more individuals.

2.35 The Designated Officer shall be deemed to be the Complainant for the purpose of the University Instituted Investigation. The University Instituted Investigation shall proceed in the same manner as an Investigation under this Procedure, with methods of investigation adapted as necessary to meet the circumstances. Based on the results of the University Instituted Investigation, appropriate disciplinary action may be taken.

Appointment of Investigator

2.36 If an Investigation is found to be warranted, the HRCMO will arrange for the appointment of an Investigator. Having regard to the seriousness and nature of the Formal Complaint, the HRCMO may appoint either an employee of the University or an external consultant to act as the Investigator for a particular Complaint, provided that the Investigator:

(a) Has skills and/or experience desirable in the circumstances;

(b) Would be able to conduct the Investigation in an unbiased manner; and

(c) Would not be placed in a conflict of interest.

Investigation

2.37 The Investigator may conduct the Investigation in any manner he or she deems appropriate, having regard to the nature of the particular Formal Complaint, the seriousness of the issues involved, and any admissions made during the Investigation. This may include some or all of:

(a) Interviewing witnesses;

(b) Reviewing documents and records (both paper and electronic);

(c) Reviewing photographs, audio, and video recordings;

(d) Examining physical evidence;

(e) Arranging for testing of physical evidence;

(f) With the consent of participants, arranging for medical or psychological evaluations; and/or

(g) Submitting a Third Party Data Access Request Form to IST regarding accessing electronic systems in accordance with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act. IST will consult with the Access and Privacy Office to facilitate the request.

2.38 The Complainant and Respondent shall cooperate fully with the Investigator and provide any information reasonably required by the Investigator upon request. The Investigator may set reasonable timelines for individuals to respond to requests for assistance with the Investigation.

2.39 Where an individual fails to provide reasonable cooperation with the Investigation, the Investigator may continue the Investigation and make a determination on the information available.

2.40 The Investigator will conduct the Investigation in accordance with the principles of procedural fairness and natural justice. In particular, the Investigator will ensure that:

(a) The Complainant must be provided an opportunity to explain and provide evidence in support of the Complaint;

(b) The Respondent must be informed of the alleged Breach and provided a copy of the Formal Complaint.

(c) The Respondent must be provided a reasonable opportunity to respond to the allegations. The Respondent must be provided access to documentary and other evidence as required to ensure procedural fairness and natural justice, subject to section 2.69 of this Procedure;

(d) While strict rules of evidence do not apply, appropriate weight must be

given to evidence based on its credibility and reliability; and
 (e) Witnesses (including Complainants and Respondents) may consult with and be accompanied by a Representative.

2.41 An Investigation must normally be completed within 90 working days of the Complaint being assigned to the Investigator. The Investigator may apply to the HRCMO for an extension of time of up to 30 working days. An Investigator may make multiple applications for extensions, but extensions may only be granted if reasonable in the circumstances and at a maximum of 30 working days at a time. The HRCMO will inform the Complainant and Respondent in writing of any extensions granted.

2.42 If, prior to or in the course of an Investigation:

- (a) The Investigator discovers that another Breach may have occurred, that others may have been involved in the Breach or there has been an allegation or act of Reprisal, the Investigator may apply to the HRCMO to expand the scope of the Investigation;
- (b) A subsequent complaint, cross-complaints, allegation or act of Reprisal, or other matters related to a violation of the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure is raised which would most efficiently be dealt with through the same Investigation, the HRCMO may expand the scope of the Investigation; or
- (c) It becomes clear that a Formal Complaint would be most efficiently and thoroughly investigated jointly with another organization or institutional partner, the HRCMO may make arrangements for a joint Investigation, so long as reasonable provisions are made to respect confidentiality.

2.43 Nothing in this Procedure is intended to prevent any Unit Head, or member of the University Community in an instructional, supervisory or managerial position, from taking reasonable and immediate steps to:

- (a) Address a situation dangerous to the health or safety of the University Community in accordance with University policy, procedure, bylaw, and/or applicable collective agreements;
- (b) Protect University funds or assets;
- (c) Take interim measures intended to facilitate a thorough Investigation, discourage Reprisal, or prevent future Breaches; or
- (d) Manage, and if necessary discipline, employees or students in accordance with University policy, procedure, bylaw, and/or applicable collective agreements.

2.44 At any time during an Investigation, and with the consent of the Complainant, Respondent and the HRCMO, the Investigation may be suspended in order to provide an opportunity for Informal Resolution. Reports on Investigations

2.45 At the conclusion of the Investigation, the Investigator will issue a Report to the Designated Officer and the HRCMO.

2.46 "Report" means a report that is issued by the Investigator at the end of an Investigation and contains, at a minimum, the following information:

- (a) A summary of the Formal Complaint and the alleged Breach;
- (b) A summary of the process and key timelines in the Investigation;
- (c) A summary of the key evidence obtained through the Investigation, including a summary of the response of the Respondent;
- (d) An indication of which key evidence was considered credible and reliable;
- (e) A conclusion as to whether, on a balance of probabilities, a Breach has been committed, including identification of which individuals caused or contributed to the Breach;
- (f) A summary of the Investigator's reasons for the conclusion; and
- (g) A summary of any remedial measures taken in regard to a Breach to the date of the Report.

Finding of No Breach of Policy

2.47 If it is determined that no Breach has occurred, the Designated Officer will advise the Complainant and Respondent accordingly and may choose to provide them with a copy of the Report. No further action will be taken and no record of the complaint will be placed on the University's official employment file or student file for the Respondent.

2.48 No record of the complaint shall be kept in the Complainant's personnel file or student record unless it is determined that the complaint was frivolous or vexatious. The University may take disciplinary action against a complainant in cases where frivolous or vexatious complaints are submitted.

Finding of Breach of Policy

2.49 If it is determined that a Breach has occurred, or that discipline is warranted under section 2.61 of this Procedure, the Designated Officer may

distribute the Report in accordance with section 2.54 of this Procedure to decide upon and implement discipline, mitigation steps or remedial measures.

2.50 The Designated Officer may request the Investigator to prepare a summary of the Report for the purposes of protecting confidentiality and protecting the identity of persons involved in the Investigation. The Investigator may consult with the Access & Privacy Office and/or the Office of Legal Counsel for assistance in preparing such summary.

2.51 The Designated Officer will provide a summary and/or the Report (either in original or redacted form), within 30 working days of receiving the Report, to:

- (a) The Complainant;
- (b) The Respondent;
- (c) All such individuals as the Designated Officer believes necessary to decide upon and implement discipline, mitigation steps, or remedial measures, in accordance with section 2.54;
- (d) All such individuals as the Designated Officer believes necessary to implement due diligence to prevent similar or related Breaches in the future;
- (e) All such individuals as the Designated Officer reasonably believes necessary to protect or restore the reputation of those wrongly accused of causing or contributing to a Breach; and
- (f) Any other person required in order to comply with legal, regulatory, or contractual obligations.

2.52 In each case the summary or Report will include, at a minimum, a summary of any evidence provided by the recipient and enough information for the recipient to understand the essential nature of the Formal Complaint and whether or not a Breach was found to have occurred. Such information will be provided in accordance with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act

DISCIPLINE

2.53 Individuals who are found in Breach of the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure will be subject to disciplinary action as follows:

- (a) Where the individual is an employee, the discipline will be implemented in accordance with applicable legislation, common law, collective agreements, and University policies, procedures or bylaws.
- (b) Where the individual is a student, the discipline will be implemented in accordance with the Student Discipline Bylaw and the Student Non-Academic Misconduct and Concerning Behaviour procedure.
- (c) Where the individual is neither an employee nor a student, the Vice-President (Administration) or designate may make any determination regarding the individual's continued access to the University in accordance with the Vice-President (Administration) Bylaw.

2.54 Before deciding on or implementing any discipline, mitigation steps or other remedial measures, the Designated Officer may seek advice and guidance from appropriate individuals, which may include: the HRCMO, the Associate Vice-President (Human Resources), the Director of Staff Relations, the Vice-Provost (Students), legal counsel, the supervisor or manager of an employee, and/or the Unit Head of the affected Unit.

2.55 Anonymous material may only be considered in a disciplinary decision where it would not violate the principles of procedural fairness and natural justice, and it would not conflict with an applicable collective agreement.

APPEAL OF DISCIPLINE

2.56 The Respondent may appeal a disciplinary decision made against him or her as follows:

- (a) If the Respondent is a unionized employee, in accordance with the appropriate grievance process defined by any applicable collective agreement;
- (b) If the Respondent is a student, in accordance with the Student Discipline Bylaw and the Student Discipline Appeal Procedure.

PROTECTION FROM REPRISAL

2.57 Subject to section 2.61, "Reprisal" means any of the following measures taken against a Complainant or any other person because they have sought advice regarding the Respectful Work and Learning Environment Policy or the Sexual Assault Policy, brought forward allegations of a Breach or made a Formal Complaint, cooperated with an Investigation, or rejected a sexual solicitation or advance:

- (a) Discipline;

- (b) Academic penalties (in the case of students);
 (c) Demotion;
 (d) Termination of employment;
 (e) Termination of an academic appointment;
 (f) Any other measure which significantly adversely affects his or her working conditions or educational experience; and
 (g) A threat to take any of the measures referred to above.
- 2.58 A Complainant, Respondent, witness, and/or any other person who has sought advice regarding the Respectful Work and Learning Environment Policy or the Sexual Assault Policy, who has brought forward allegations of a Breach, who has made a Formal Complaint, who has cooperated with an Investigation, or who has rejected a sexual solicitation or advance, is entitled to be protected from a Reprisal. An individual may complain about an alleged Reprisal to the Investigator or to the HRCMO.
- 2.59 Upon observing or being notified of an alleged Reprisal the Investigator may:
- (a) Investigate and include in his or her Report information relating to the alleged Reprisal; and
 (b) If the matter is urgent, refer the information regarding alleged Reprisal to the HRCMO.
- 2.60 Where the Investigator refers an urgent allegation of Reprisal to the HRCMO, the HRCMO will advise the Designated Officer and any such persons as believed necessary to discuss and implement interim measures. Interim measures may be implemented by the Designated Officer or the Unit Head.
- 2.61 It is not a Reprisal for the University to implement discipline or take other measures against an individual if:
- (a) The individual has interfered or attempted to interfere with an Investigation;
 (b) The person made a Formal Complaint or allegations in bad faith;
 (c) The individual has materially breached the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure; or
 (d) Discipline is otherwise warranted against the individual under applicable legislation or common law, or University policies, procedures or bylaws.
- 2.62 Even where an individual indicates that he or she wishes to withdraw a Formal Complaint (including for fear of Reprisal or being identified) during an Investigation, the Designated Officer may determine that the issue is important enough that an Investigation must continue.
- CONFIDENTIALITY**
- Obligations of Confidentiality by University with respect to Allegations of Breach
- 2.63 The University will not disclose the name of a Complainant or Respondent or the circumstances related to a complaint of alleged Breach except where disclosure is:
- (a) Necessary to investigate the complaint or take corrective action with respect to the complaint; or
 (b) Required by law.
- Obligations of Confidentiality by University with respect to Findings of Breach
- 2.64 The University will not disclose the name of a Complainant or the circumstances related to a finding of Breach except where disclosure is:
- (a) Necessary to address a risk to the health or safety of an individual or group;
 (b) Necessary to comply with insurance requirements; or
 (c) Required by law.
- 2.65 The University may disclose the name of the Respondent or the circumstances related to a finding of Breach for the following purposes:
- (a) In order to address a risk to the health or safety of an individual or group;
 (b) In order to prevent further or continuing Breaches or other violations of the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure;
 (c) In order to obtain confidential professional advice;
 (d) In order to report a legal offense to appropriate authorities;
 (e) In order to respond to legal or administrative proceedings;
 (f) In order to comply with any legal or contractual requirement;
 (g) In accordance with the Access and Privacy policy; or
 (h) As otherwise permitted or as necessary to give effect to the Respectful Work and Learning Environment Policy, the Sexual Assault Policy, or this Procedure.

- Information to be minimum amount necessary for purpose
- 2.66 Personal information that is disclosed under section 2.63 and 2.65 above in respect of an alleged Breach or a finding of Breach will be the minimum amount necessary for the purpose.
- Obligations of Confidentiality by the Complainant, Respondent, and Witnesses
- 2.67 The Complainant, the Respondent, and witnesses involved in an Investigation must keep confidential:
- (a) The existence and nature of the Investigation; and
 (b) Any information or documentation obtained as a result of the Investigation;
 which information may only be disclosed to those who reasonably need to know. Where an individual is unsure of whether they may disclose particular information, they may seek advice from the HRCMO or from the Access and Privacy Office. This section is not intended to limit the distribution of Reports as contemplated by this Procedure.
- 2.68 Notwithstanding section 2.67, the Complainant, the Respondent, and witnesses involved in the Investigation may:
- (a) Obtain confidential advice and/or direction in relation to the complaint from persons such as their supervisor, lawyer, union representative, Student Advocate, or support person, as may be appropriate);
 (b) Disclose information to others only to the extent reasonably necessary to gather evidence and, in the case of a Respondent, to make full answer and defense to the allegations; and
 (c) Use information obtained independent of the Investigation in any other forum.
- Obligations of Confidentiality by the Investigator
- 2.69 The Investigator, in conducting the Investigation, will comply with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act with respect to personal information and personal health information collected, used and disclosed in the course of the investigation. Where the Investigator is unsure of whether they may disclose particular information, they may seek advice from the University's Access and Privacy Office. The Investigator will further ensure that individuals participating in the Investigation are only provided with such information as they may reasonably need to know to be effective witnesses, or in the case of a Respondent, to address the allegations in accordance with the principles of procedural fairness and natural justice. Subject to section 2.40 of this Procedure, individuals participating in the Investigation may not necessarily be provided with all information, documentation, the names of Complainants or other witnesses, or the full text of the Formal Complaint.
- 2.70 The Investigator will advise all persons involved with an Investigation as to their obligations regarding confidentiality, and the protections available to them under this Procedure.
- Records Management
- 2.71 The University will maintain files with respect to each complaint in accordance with the Records Management Policy and Procedure. The Investigator will securely transfer his or her files to the HRCMO once the Investigation has concluded.

Part III

Accountability

- 3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Procedure is required.
- 3.2 The Vice-President (Administration) is responsible for the implementation, administration and review of this Procedure.
- 3.3 All members of the University Community are responsible for complying with this Procedure.

Part IV

Review

- 4.1 Governing Document reviews shall be conducted every three (3) years. The next scheduled review date for this Procedure is June 22, 2019.
- 4.2 In the interim, this Procedure may be revised or repealed if:
- (a) the Approving Body deems it necessary or desirable to do so;
 (b) this Procedure is no longer legislatively or statutorily compliant;
 (c) this Procedure is now in conflict with another Governing Document;

and/or
(d) the Parent Policy is revised or repealed.

Part V

Effect on Previous Statements

5.1 This Procedure supersedes all of the following:

- (a) Respectful Work and Learning Environment Procedure, effective January 27, 2009, and revised March 15, 2010;
- (b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (c) all previous Administration Governing Documents on the subject matter contained herein.

Part VI

Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Respectful Work and Learning Environment Policy;
- (b) Sexual Assault Policy;
- (c) Definitions of Academic Units Policy;
- (d) Records Management Policy and Procedure;
- (e) Access and Privacy Policy and Procedure;
- (f) Third Party Data Access Request Form;
- (g) Student Discipline Bylaw;
- (h) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (i) Student Discipline – Appeal Procedure;
- (j) Use of Computer Facilities Policy and Procedure;
- (k) Violent or Threatening Behaviour Policy and Procedure;
- (l) Vice-President (Administration) Bylaw;
- (m) The Human Rights Code, C.C.S.M. c. H175;
- (n) The Workplace Safety and Health Regulation 217/2006.

This Policy is available online at:

http://umanitoba.ca/admin/governance/governing_documents/community/230.html

Sexual Assault Policy

Part I

Reason for Policy

1.1 The reason for this Policy is to:

- (a) Provide guidance, assistance and support to members of the University Community who have experienced Sexual Assault or who have received a disclosure of Sexual Assault;
- (b) Set out a consistent process for responding to Sexual Assault that ensures that:
 - (i) Members of the University Community understand their respective rights and obligations when reporting or responding to a Sexual Assault.
 - (ii) Those who experience Sexual Assault are treated with dignity and respect and that their rights are respected;
 - (iii) Those who are accused of committing Sexual Assault are treated fairly and in a manner that ensures due process; and
- (c) The University is compliant with relevant legislation, including The Human Rights Code (Manitoba), and The Workplace Health and Safety Regulation (Manitoba).

Part II

Policy Content

Definitions

2.1 The following terms are defined for the purpose of this Policy:

- (a) "Breach" means any conduct, behaviour, action or omission which is prohibited under this Policy, including but not limited to Sexual Assault and Reprisals.
- (b) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (c) "Committee" means the Human Rights Advisory Committee established

pursuant to section 2.20 of this Policy to:

- (i) Hear appeals from Preliminary Assessment decisions, in accordance with the Procedure;
- (ii) Receive and review the HRCMO's annual report under section 2.25 of this Policy; and
- (iii) Provide advice and guidance on potential amendments or revisions to this Policy and the Procedure.
- (d) "Complainant" means the individual or individuals bringing forward a complaint of a Breach.
- (e) "Consent" means the voluntary agreement of the person to engage in the sexual activity in question. Without limiting the foregoing, no Consent is obtained where:
 - (i) the person submits or does not resist by reason of the application of force to the person or to someone other than the person;
 - (ii) the person submits or does not resist by reason of threats or fear of the application of force to the person or to someone other than the person;
 - (iii) the person submits or does not resist by reason of fraud or blackmail;
 - (iv) the person submits or does not resist by reason of the exercise of authority;
 - (v) the agreement is expressed by the words or conduct of someone other than the person;
 - (vi) the person is incapable of consenting to the activity due to age, consumption of drugs or alcohol, or due to some other mental or physical incapacity;
 - (vii) the accused induces the person to engage in the activity by abusing a position of trust, power or authority;
 - (viii) the person expresses, by words or conduct, a lack of agreement to engage in the activity; or
 - (ix) the person, having consented to engage in sexual activity, expresses, by words or conduct, a lack of agreement to continue to engage in the activity.
- (f) "Designated Officer" means the Vice-President (Administration), or designate.
- (g) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (h) "Formal Complaint" means a complaint to the Human Rights and Conflict Management Officer that is in writing and contains, at minimum, the following information:
 - (i) The name of the Complainant and contact information for the Complainant;
 - (ii) A description of the alleged Breach;
 - (iii) The approximate date of the alleged Breach, being within 1 year from the date of the most recent alleged incident unless, in the discretion of the Human Rights and Conflict Management Officer, extenuating circumstances would warrant an extension of time;
 - (iv) The name of the Respondent;
 - (v) Contact information for the Respondent, if known;
 - (vi) An indication that the Complainant desires the complaint to be the subject of an Investigation; and
 - (vii) The Complainant's signature.
- (i) "Human Rights and Conflict Management Officer" or "HRCMO" means an individual appointed by the University of Manitoba as someone possessing the appropriate training and skills to fulfill the role outlined in section 2.24 of this Policy.
- (j) "Informal Resolution" means the resolution of an alleged Breach to the satisfaction of the Complainant and the Respondent, without an Investigation being completed.
- (k) "Investigation" means a formal investigation of an alleged Breach conducted in accordance with the Procedure.
- (l) "Investigator" means one or more persons appointed as the investigator of an alleged Breach, pursuant to section 2.36 of the Procedure.
- (m) "Policy" means this Sexual Assault Policy.
- (n) "Preliminary Assessment" means the initial review of a Formal Complaint, in accordance with sections 2.23 to 2.28 of the Procedure.
- (o) "Procedure" means the RWLE and Sexual Assault Procedure.
- (p) "Reprisal" has the same meaning as defined in section 2.57 of the Procedure.
- (q) "Respondent" means an individual or individuals accused of having caused or contributed to a Breach.
- (r) "School" means a "School of the University" or a "School of the Faculty", as those terms are defined under the Definitions of Academic Units Policy.

- (s) "Sexual Assault" means the intentional sexual touching of another person with any object or body part without Consent or by force.
- (t) "STATIS" means the Student/Staff Threat Assessment Triage Intervention Support team comprised of the following representatives:
- (i) Vice-Provost (Students);
 - (ii) Associate Vice-President (Human Resources);
 - (iii) Director, Security Services;
 - (iv) Executive Director, Student Support;
 - (v) Student Support Case Manager; and
 - (vi) Legal Counsel.
- (u) "UMSS" means the University of Manitoba's Security Services.
- (v) "University" means The University of Manitoba.
- (w) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, students, volunteers, external parties, contractors and suppliers.
- (x) "University Instituted Investigation" means an Investigation initiated by the Designated Officer in consultation with the HRCMO, pursuant to section 2.34 of the Procedure.
- (y) "University Matter" has the same meaning as defined in section 2.3 of the Procedure.

Vision for the University Community

2.2 The University recognizes that Sexual Assault can occur between individuals regardless of sexual orientation, gender, gender identity and/or relationship status. The University also recognizes that individuals who have experienced Sexual Assault may experience mental, physical, academic and/or other difficulties. The University is committed to:

- (a) Supporting those who have experienced Sexual Assault by providing information, including the provision of and/or referral to counselling and medical care, and the provision of appropriate and reasonable academic and other accommodation;
- (b) Ensuring that those who disclose that they have experienced Sexual Assault are supported and treated with compassion, dignity and respect throughout the process of disclosure and institutional response;
- (c) Respecting the privacy of individuals who disclose Sexual Assault and recognize that those individuals are the final decision-makers about their own best interests, subject to the limits of confidentiality set out in this Sexual Assault Policy and the Procedure;
- (d) Coordinating and communicating among the various departments who are most likely to be involved in the response to Sexual Assault affecting the University Community and implementing interim measures, while ensuring that fairness and due process are respected;
- (e) Engaging in public education, awareness and prevention activities;
- (f) Providing information to the University Community about Sexual Assault on campus;
- (g) Providing appropriate education and training to the University Community about responding to the disclosure of Sexual Assault; and
- (h) Monitoring and updating University policies and protocols to ensure that they remain effective and in line with other existing policies and best practices.

Implementation of Vision

2.3 In furtherance of its vision, the University will:

- (a) Take action in accordance with the Procedure respecting any person under the University's direction who subjects a student, an employee, or any other member of the University Community to Sexual Assault;
- (b) Adopt procedures, protocols, and practices which will encourage individuals to bring concerns about an alleged Breach to an appropriate authority, including provisions to protect against Reprisal those who bring forward such allegations;
- (c) Through various academic and administrative units and programs, educate members of the University Community about the rights and obligations of members of the University Community under this Policy and the Procedure;
- (d) Provide information and supports to encourage and facilitate the Informal Resolution of an alleged Breach if appropriate; and
- (e) Supplement existing policies, procedures or bylaws, by providing a mechanism for the Investigation of an alleged Breach that ensures procedural fairness and due process to the Respondent.

2.4 The University is committed to promoting a safe work and learning environment by encouraging all members of the University Community to:

- (a) Bring forward credible evidence of a Breach of which they become aware to an appropriate authority, subject to section 2.9 of this Policy;
 - (b) Provide reasonable cooperation in an Investigation of a Breach; and
 - (c) Be aware of their responsibilities under this Policy and the Procedure.
- Immediate Response to Disclosures**
- 2.5 The University will maintain a website to support those affected by Sexual Assault, with links to on-campus and off-campus supports and resources that may be accessed by members of the University Community. Members of the University Community are encouraged to consult this website, to consult with the resources contained therein, and to consult with a health care provider for treatment or referral for post-incident counselling, if appropriate.
- 2.6 For students affected by Sexual Assault, the University will:
- (a) Provide reasonable academic accommodations (such as extensions on assignments, deferrals of exams, leaves of absences, authorized withdrawals, etc.); and
 - (b) Create a safety plan in consultation with the University's Student Support Case Manager, UMSS, and other offices as appropriate.
- 2.7 For employees affected by Sexual Assault, the University will:
- (a) Provide reasonable work accommodations, in consultation with Human Resources; and
 - (b) Create a safety plan in consultation with the Unit Head, UMSS, and other offices as appropriate.
- 2.8 Any information required to facilitate accommodations under sections 2.6 and 2.7 above will be subject to section 2.9 below, and will be limited in accordance with the confidentiality provisions outlined in section 2.16 of this Policy and sections 2.63 to 2.66 of the Procedure.
- Reporting Protocol**
- 2.9 Rights of survivors of Sexual Assault. Where possible, a person who has experienced Sexual Assault will retain control over the process of reporting a Sexual Assault. However, the University also has an obligation to protect the University Community from harm. The University reserves the right to initiate a University Instituted Investigation in accordance with the Procedure, and/or to report the incident to local police services, even without the consent of the survivor, if it believes that the safety of the University Community is at risk or if reporting is required by law (for example, in the case of a minor). In cases where actions are taken without the consent of the survivor, reasonable efforts will be made to preserve the anonymity of the survivor. In addition, the survivor will be notified of the actions the University intends to take in order that the survivor can work with the University to take any additional safety precautions that may be required as a result of the University's actions.
- 2.10 Report to HRCMO. Where a report of Sexual Assault is received by a member of the University Community other than UMSS, that member is encouraged to consult with the HRCMO to ensure that coordinated support and action is provided to the member(s) of the University Community affected by the Sexual Assault. The HRCMO may consult with STATIS in providing support.
- 2.11 Report to UMSS. Where a report of Sexual Assault is received by UMSS, a UMSS member shall create a security report and refer the matter to the HRCMO and STATIS to ensure that coordinated support and action is provided to the affected members of the University Community.
- 2.12 Report to STATIS. Where a report of Sexual Assault is received by STATIS, the role of STATIS will be to:
- (a) Develop an action plan to assist and support the members of the University Community affected by the Sexual Assault;
 - (b) Ensure that members of the University Community affected by the Sexual Assault are consulted where appropriate and kept informed of the developments within the parameters of confidentiality; and
 - (c) Take all necessary action relative to the above.
- 2.13 Any information required to facilitate support and action by the University will be subject to section 2.9 above, and will be limited in accordance with the confidentiality provisions outlined in section 2.16 of this Policy and sections 2.63 to 2.66 of the Procedure.
- Investigation**
- 2.14 The University will investigate allegations of Sexual Assault in relation to a University Matter in accordance with the Procedure where:
- (a) The HRCMO receives a Formal Complaint and determines in the Preliminary Assessment that the matter should proceed to Investigation; or
 - (b) The Designated Officer determines, upon recommendation by the

HRCMO, that the circumstances warrant a University Instituted Investigation, in accordance with section 2.34 of the Procedure and section 2.9 of this Sexual Assault Policy.

Discipline

2.15 Any member of the University Community who commits Sexual Assault in relation to a University Matter will be subject to discipline under the Procedure.

Confidentiality

2.16 Confidentiality is particularly important to those who have disclosed Sexual Assault. The confidentiality of all persons involved in a report of Sexual Assault must be strictly observed, and the University will respect the confidentiality of all persons, subject to section 2.9 above and in accordance with sections 2.63 to 2.66 of the Procedure.

Awareness Building and Responsibilities

2.17 All members of the University Community have a responsibility to educate themselves as to the expectations and reporting requirements outlined in this Policy and the Procedure.

2.18 All members of the University Community, especially those in an instructional, supervisory or managerial position, have a duty to educate those for whom they are responsible regarding expectations for safe and respectful conduct, including this Policy and the Procedure. It is further the duty of such individuals to deal appropriately with allegations regarding Breaches or other violations of this Policy or the Procedure.

2.19 The University, through the Office of Human Rights and Conflict Management and other units as appropriate, will provide information to and respond to inquiries from the University Community regarding the University's expectations for safe and respectful conduct and the rights and obligations of members of the University Community under this Policy and the Procedure.

Human Rights Advisory Committee

2.20 The University will establish the Committee, with a membership consisting of:

- (a) The Associate Vice-President (Human Resources) or designate;
- (b) The Vice-Provost (Students) or designate; and
- (c) The Vice-Provost (Academic Affairs) or designate, provided that the designate holds an academic appointment with the University.

2.21 The mandate of the Committee is to:

- (a) Hear appeals from Preliminary Assessment decisions, in accordance with the Procedure;
- (b) Receive and review the HRCMO's annual report under section 2.25 of this Policy;
- (c) Provide advice and guidance on potential amendments or revisions to this Policy and the Procedure.

2.22 If any member of the Committee is unable or unwilling to fulfill his/her responsibilities under this Policy and the Procedure, or if the subject matter of a Formal Complaint is such that it would be inappropriate for that member of the Committee to review the matter for reason of conflict of interest or any other reason, the HRCMO will ask the President to appoint an alternate to act in place of that member. The alternate may be any person with a direct report to the Vice-President (Administration) or Provost and Vice-President (Academic), or any other employee of the University, who:

- (a) Has skills and/or experience desirable in the circumstances;
- (b) Would be able to review the Formal Complaint in an unbiased manner; and
- (c) Would not be placed in a conflict of interest.

2.23 Any appointment under section 2.22 must be made with notice to the Complainant.

Role of HRCMO

2.24 The Human Rights and Conflict Management Officer (HRCMO) will:

- (a) Provide advice and guidance to the University Community on how to best implement this Policy and the Procedure;
- (b) Facilitate education and training opportunities for members of the University Community regarding their rights and obligations under this Policy and the Procedure;
- (c) Conduct Preliminary Assessments of Formal Complaints;
- (d) Provide information to both the Complainant and Respondent regarding opportunities and resources available to facilitate Informal Resolution of concerns and, where appropriate, coordinate communications between Complainants and Respondents on the

understanding that such communications will not be provided to the Investigator if the matter moves to a Formal Complaint;

- (e) Identify and track trends in matters relating to this Policy and the Procedure, and provide advice and guidance to the administration and the University Community on such trends; and
- (f) Provide advice and guidance on potential amendments or revisions to this Policy and the Procedure.

Annual Report

2.25 The HRCMO will produce and provide an annual report to the Designated Officer and the Committee, outlining:

- (a) De-identified data regarding the number and types of complaints received;
- (b) De-identified data regarding the number and types of Investigations conducted;
- (c) Information regarding observable trends;
- (d) De-identified information regarding particularly important cases;
- (e) De-identified information regarding disclosures of Sexual Assault that have been reported to the HRCMO;
- (f) Information on educational activities; and
- (g) Other relevant information which may further the implementation of the Policy and its Procedures.

2.26 The annual report will be made available to the University Community.

Additional Protections

2.27 Nothing in this Policy or the Procedure is intended to discourage or prevent a member of the University Community, including students and employees, from filing a complaint with the Manitoba Human Rights Commission, or from exercising any other legal rights pursuant to any other law.

2.28 Nothing in this Policy or the Procedure is intended to limit the rights of an employee governed by a collective agreement. If there is any ambiguity or conflict between this Policy or the Procedure, and a collective agreement, the collective agreement will prevail.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Policy is required.

3.2 The Vice-President (Administration) is responsible for the implementation, administration and review of this Policy.

3.3 All members of the University Community are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

4.1 The Vice-President (Administration) may approve procedures, if applicable, which are secondary to and comply with this Policy, including but not limited to:

- (a) A procedure to supplement existing policies, procedures or bylaws, by providing a mechanism for the Investigation of an alleged Breach, including regarding:
 - (i) Receipt and review of complaints;
 - (ii) The circumstances under which an Investigation should take place;
 - (iii) Appointment of investigators;
 - (iv) Conduct of an Investigation, in accordance with the principles of procedural fairness and natural justice;
 - (v) Respecting the confidentiality of information collected in relation to complaints and Investigations;
 - (vi) Protecting individuals against Reprisal;
 - (vii) Protecting individuals against unfounded allegations of a Breach;
 - (viii) Producing a report at the conclusion of an Investigation; and
 - (ix) Implementing discipline, if necessary.
- (b) Generally defining the responsibility, authority and accountability of members of the University Community under this Policy.

Part V

Review

5.1 Governing Document reviews shall be conducted every three (3) years. The next scheduled review date for this Policy is June 22, 2019.

5.2 In the interim, this Policy may be revised or repealed by the Approving Body if:

- (a) The Vice-President (Administration) or the Approving Body deems it necessary or desirable to do so;
- (b) The Policy is no longer legislatively or statutorily compliant; and/or
- (c) The Policy is now in conflict with another Governing Document.

5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

- (a) Comply with the revised Policy; or
- (b) Are in turn repealed.

Part VI Effect on Previous Statements

6.1 This Policy supersedes all of the following:

- (a) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (b) all previous Administration Governing Documents on the subject matter contained herein.

Part VII Cross References

7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) RWLE and Sexual Assault Procedure;
- (b) Respectful Work and Learning Environment Policy;
- (c) Definitions of Academic Units Policy;
- (d) Access and Privacy Policy and Procedure;
- (e) Records Management Policy and Procedure;
- (f) Student Discipline Bylaw;
- (g) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (h) Student Discipline Appeal Procedure;
- (i) Use of Computer Facilities Policy and Procedure;
- (j) Violent or Threatening Behaviour Policy and Procedure;
- (k) Criminal Code, RSC 1985, c C-46.
- (l) The Human Rights Code, C.C.S.M. c. H175;
- (m) The Workplace Safety and Health Regulation 217/2006.

Accessibility Policy

This Policy and the Procedures that follow are available online at http://umanitoba.ca/admin/governance/governing_documents/students/accessibility.html.

Part 1

Reason for Policy

1.1 The University of Manitoba promotes diversity, inclusion, and accessibility in our programs, employment opportunities, and in the conduct of the University's affairs. We believe in the inherent dignity of all people. We are committed to identifying and removing barriers that prevent full and meaningful participation in all aspects of campus life. The University will comply with all applicable federal, provincial, and municipal legislation with respect to accessibility and will implement the standards specified under *The Accessibility for Manitobans Act ("AMA")*.

1.2 The purpose of this Policy is to ensure that all members of the University community, including those with disabilities, are provided with an accessible learning and working environment.

Part II

Policy Content

Disability

2.1 For the purpose of this Policy and related procedures an employee or student with a disability is a person who experiences a mental, cognitive,

physical or sensory impairment for which they may require accommodation.

General

2.3 The University recognizes it is subject to The Human Rights Code (Manitoba) and the AMA, and as such has a duty to provide reasonable accommodation to employees and students with documented disabilities in its efforts to provide an accessible learning and working environment.

2.4 The concept of reasonable accommodation requires a partnership between the individual requiring the accommodation and the University. All concerned should be responsible for respecting the dignity and confidentiality of the individual who requests the accommodation.

2.5 The University shall endeavor to maintain an accessible work and learning environment at all its campuses through the provision of accommodation supports and services to employees and students with disabilities.

2.6 The University will use reasonable efforts to offer reasonable accommodation in the working and learning environments. The University will also seek to identify, remove and prevent barriers to accessibility at the University.

2.7 The University will use reasonable efforts to ensure that employment opportunities and programs of study are accessible to potential employees and students with disabilities.

Confidentiality

2.8 All communication regarding the accommodation of an employee's or student's disability shall be confidential and in accordance with the University's policy and procedures related to *The Personal Health Information Act (Manitoba)*.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Policy is required.

3.2 The Associate Vice-President (Human Resources) and Vice-Provost (Students) are responsible for the implementation, administration and review of this Policy.

3.3 All members of the University community are responsible for complying with this Policy.

Part IV Authority to Approve Procedures

4.1 The Board, the Senate and the Administration may approve procedures which give effect to this Policy, in accordance with their respective jurisdiction.

Part V Review

5.1 Governing Document reviews shall be conducted every ten (10) years by the Responsible Executive Officer. The next scheduled review date for this Policy is January 1, 2025.

5.2 In the interim, this Policy may be revised or repealed if:

- (a) the Approving Body deems it necessary or desirable to do so;
- (b) the Policy is no longer legislatively or statutorily compliant; and/or
- (c) the Policy is now in conflict with another Governing Document

Part VI Effect on Previous Statements

6.1 This Policy is a new policy.

Part VII Cross References

7.1 This Policy, should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Student Accessibility Procedure;
- (b) Student Accessibility Appeal Procedure;
- (c) Respectful Work and Learning Environment Policy;
- (d) RWLE and Sexual Assault Procedure;
- (e) *The Accessibility for Manitobans Act*;
- (f) *The Human Rights Code*; and
- (g) *The Personal Health Information Act*.

Student Accessibility Procedure

Part I

Reason for Procedure

1.1 To set out Procedures secondary to the Policy entitled "The University of Manitoba Accessibility Policy" in connection with supporting an accessible learning environment where students with disabilities who are admitted to the University can gain access to and participate in all programs for which they are academically qualified.

1.2 While it is a guiding principle of this policy that all members of the University community share responsibility for creating and maintaining an accessible learning environment, the University has designated Student Accessibility Services ("SAS") to facilitate the implementation of accommodations for students with documented disabilities.

1.3 The University's duty to provide reasonable accommodation to students with documented disabilities may obligate the University to offer a modification, substitution, or waiver. Such accommodations are consistent with the obligation to administer the University's academic programs as approved by Senate so long as

- (a) The accommodation is reasonable;
- (b) The accommodation does not create an undue hardship for the University; and
- (c) The accommodation does not compromise a defined Bona Fide Academic Requirement.

Part II

Procedural Content

Definitions

2.1 The terms below have the following defined meanings for the purpose of this Procedure:

- (a) "**Documented Disability**" means a disability requiring accommodation which has been accepted as such by Student Accessibility Services.
- (b) "**Bona Fide Academic Requirement**" or "**BFAR**" describes the knowledge and skills that a Student must acquire and /or demonstrate in order to complete a course or program successfully. These are the essential and minimum requirements, including methods of assessment that the Student must meet. Unless otherwise specified by an academic program, BFARs may be modified. They cannot be waived or substituted.
- (c) "**Reasonable Accommodation**" means an accommodation of the special needs of any Student, if those special needs are based upon a Documented Disability, that is reasonable but not necessarily perfect in the circumstances, that does not cause undue hardship to the University, and does not compromise a Bona Fide Academic Requirement of the University.

The University is under no obligation to offer a Reasonable Accommodation (or any accommodation for that matter) on compassionate or other grounds.

(d) Standard Accommodations are those Reasonable Accommodations that are widely accepted by post-secondary institutions in Canada, which includes but are not limited to examples of Modifications provided in section 2.2(a)(i-vi).

(e) Non-Standard Accommodations are considered when Standard Accommodations do not address the disability-related barriers a Student is experiencing in an academic program. Non-Standard Accommodations are those Reasonable Accommodations recommended by Student Accessibility Services and considered by the Accommodation Team in accordance with section 2.24.

(f) "**Academic Staff Member**" means a professor, instructor and/or academic staff person who is responsible for providing the educational program or course to a Student requiring Reasonable Accommodation.

(g) "**Accessibility Advisory Committee**" (AAC) means a Faculty/School or College committee, which is responsible for advising the respective Dean/Director on matters related to accommodation and the impact of accommodation on academic standards. Other resource personnel from within or external to the University may act as a consultant to the AAC. Since the AAC is advisory to the Dean/Director and may, at times, be in receipt of and requested to consider a Student's personal information and personal health information, student membership on the AAC is not recommended.

(h) "**Accommodation Team**" (AT) means the Faculty/School or College team established to work with Student Accessibility Services on the provision of Reasonable Accommodation when Student Accessibility Services identifies the Reasonable Accommodation as Non-Standard or unusual for the circumstances. It is intended AT will be engaged early on in the process when necessary.

(i) "Faculty/School" includes:

(i) all faculties, including constituent colleges within a faculty and constituent schools of a faculty, in which students enroll for study, and including the Extended Education Division and University 1; and

(ii) all schools of the University

(j) "SAS" refers to the office of Student Accessibility Services at the University of Manitoba.

(k) "Student" means any of the following individuals:

(i) Applicant- an individual who has submitted application for admission to the University;

(ii) Admitted- an individual who has accepted an offer of admission to the University;

(iii) Current- an individual who is either registered in course(s) or in a program of studies at the University or is eligible to continue in their studies at the University either because the individual meets minimum academic performance requirements or will be eligible to continue after discharging a financial hold or serving suspension.

2.2 The terms below have the following defined meanings and are types of 'Reasonable Accommodation':

(a) "**Modification**" means an accommodation involving a relatively minor change made to an academic requirement of a program or course. Modifications usually entail a revision to the way a Student must demonstrate required skills and knowledge, or sometimes additional assistance for a Student which does not detract from the skills and knowledge the Student must acquire. Without limitation, modifications typically include such things as:

- (i) providing additional time and quiet space to write examinations;
- (ii) alternate exam formats;
- (iii) alternate modes of course delivery or evaluation;
- (iv) provision of a note taker or interpreter;
- (v) special equipment in classrooms; and
- (vi) adaptive technology

The implementation of modifications is facilitated by SAS in consultation with Academic Staff Members.

(b) **“Substitution”** means the replacement of a certain admission criterion, prerequisite course, course/program requirement or University requirement with another that is deemed comparable. Substitutions are commonly used to effect accommodations. Senate approves required program content including courses and other elements such as breadth, depth, math and written requirements; Faculties/Schools administer these programs. In administering a program, it may become impossible, impractical, or unfeasible for a Student to complete all program requirements exactly as approved by Senate. Deans and directors, or their designates may approve Substitutions. Deans may delegate their authority to an associate Dean or department head. Such delegations should be made in writing.

(c) **“Waiver”** means the removal of a criterion for admission, progression or graduation from a program of study. A waiver is an accommodation, but should never be offered in regard to a Bona Fide Academic Requirement. A Waiver does not include a case where a requirement is replaced by another requirement (this is a Substitution), but rather is the complete elimination of a non-essential academic requirement. Deans and Directors may approve Waivers and may delegate this authority to an associate Dean. Such delegations should be made in writing. Deans and Directors do not have the authority to waive general university academic requirements that apply to all students regardless of Faculty/College or School.

(d) **“Degree Notwithstanding a Deficiency”** means a degree that is conferred upon a Student who has not met all the Senate-approved requirements of his or her program of study and for whom no other accommodation has been approved in regard to the missing requirements. A Degree Notwithstanding a Deficiency, when approved by Senate, is the only way in which a Student may effectively obtain a Waiver of what would otherwise be considered a Bona Fide Academic Requirement. Senate alone may grant a Degree Notwithstanding a Deficiency.

Responsibilities and Rights of Students

2.3 In order to facilitate appropriate Reasonable Accommodations of a student’s disability related needs, SAS requires Students with disabilities requesting accommodations to register with the office as soon as possible.

2.4 Students registering with SAS must provide the following information in a form approved by SAS:

- (a) Name, contact information, student number; and
- (b) Documentation from a registered health professional which should include:
 - (i) Name of the registered health professional;
 - (ii) Dates of the clinical assessments performed in determining the disability and the need for Reasonable Accommodations;
 - (iii) How the disability will affect the Student in the academic setting (i.e. on campus, in classroom, lab, clinical/fieldwork and other instructional settings, and during tests and exams);

(iv) An indication of the duration of the Student’s period of disability; and

(v) Recommendations for appropriate accommodations to be made for that Student, with reference to any relevant health information that may support those recommendations.

2.5 The information outlined in section 2.4 is required from the Student at time of registration and must be kept up to date.

2.6 All personal information, including personal health information, shall be kept confidential in accordance with *The Freedom of Information and Protection of Privacy Act (Manitoba)* and *The Personal Health Information Act (Manitoba)*. The information will be shared with only those who need to know in order to give effect to the Policy and assist the Student in obtaining Reasonable Accommodations.

2.7 Students must schedule a meeting with SAS staff to discuss their accommodation requirements and acquaint themselves with the SAS procedures. The following documents should be prepared by SAS staff for each Student as required:

- (a) Letter of Accommodation (outlining individual needs for distribution to instructors); and
- (b) Tests/Exams Particular Forms (to be completed for each test/exam).

2.8 As part of the registration process, Students should be made aware of the Canada Student Grant program of funding.

The Canada Student Grant

2.9 All eligible Students will be requested to complete an application for a Canada Student Grant or notify SAS of ineligibility for the grant.

2.10 Upon receipt of a Canada Student Grant, any portion designated for services retained through the SAS office at the University should be submitted to the SAS office. A receipt will then be issued to the Student for their records.

Responsibility and Rights of Student Accessibility Services¹

2.11 Student Accessibility Services has the responsibility and right to:

- (a) Offer advice, guidance and support for Students requiring academic accommodation and assign a SAS advisor to the Student.
- (b) Request and evaluate documentation from registered health professionals provided by Students requesting assistance from SAS and assign appropriate services to meet the needs of each Student by adapting services, courses, and programs as feasible. SAS will consider the suggestions/ recommendations noted in the documentation of a disability/condition but may not agree to all of the suggestions/recommendations.
- (c) On the basis of supporting documentation, make recommendations and decisions regarding Reasonable Accommodation in a timely manner. In situations where the requested academic accommodation is beyond the authority of SAS (i.e. a Substitution, Waiver, or Degree Notwithstanding a Deficiency), SAS will provide recommendations to the appropriate authority identified in section 2.2 of this procedure.
- (d) Coordinate service(s) and Reasonable Accommodation(s) for Students with Documented Disabilities to ensure that their needs are addressed.
- (e) Provide support to Academic Staff Members in accommodating and working with Students with Documented Disabilities.
- (f) Prepare the recommended accommodation plan for the Student with Documented Disabilities and send out the Letter of Accommodation to alert Academic Staff Members to the Reasonable Accommodations in place.

(g) Inform and assist Academic Staff Members and other staff in providing Reasonable Accommodations and understanding disability issues.

(h) Ensure that the University's Bona Fide Academic Requirements will not be compromised.

(i) Work with Students and Academic Staff Members to resolve disagreements regarding recommended Reasonable Accommodation(s).

(j) Provide a focus for activity and expertise regarding disability-related Reasonable Accommodations within the University, and for liaison with outside organizations regarding accessibility issues, and programs and services for Students with disabilities at the University.

(k) Keep current with associated legislation.

(l) Prepare an annual report for the University Senate.

Responsibility and Rights of Academic Staff Members

2.12 Academic Staff Members have the right to:

(a) Determine course content and methods of instruction.

(b) Ensure that the academic integrity and standards of the course are not compromised and ensure that established entry-to-practice competencies and requirements for professional disciplines are not compromised.

(c) Evaluate Student work, performance and competencies related to the course content and relevant academic standards, including failing any Student who has not passed or satisfied the course requirements.

(d) Discuss with as much notice as possible, any particular Accommodation(s) with SAS, if in the Academic Staff Member's opinion, the Accommodation(s) compromise(s) the integrity of the course.

(e) Determine the appropriate method of adapting their teaching style to meet Accommodation(s).

(f) Consult with professionals, on or off campus, to determine how best to accommodate Students with Documented Disabilities in their course.

(g) Question or challenge an Accommodation by working first with SAS and/or with any Accommodation Team or Liaison.

2.13 Academic Staff Members have the responsibility to:

(a) Support the University's commitment and obligation to accommodate Students with Documented Disabilities.

(b) Work with SAS to gain knowledge of appropriate Reasonable Accommodations(s) for Student(s).

(c) Provide Reasonable Accommodation(s) recommended by SAS without compromising the academic integrity and professional standards of the course.

(d) Maintain the Student's dignity and privacy in relation to the Documented Disability and Reasonable Accommodation.

(e) Communicate in the classes and/or course outline their willingness to meet with Students to discuss Accommodation(s) facilitated by SAS.

(f) Work with Students and SAS to resolve disagreements regarding Reasonable Accommodation(s).

(g) Work with SAS when considering Reasonable Accommodations for field trips or clinical practicum that are requested or required.

(h) Work with their Accessibility Advisory Committee and/or Accommodation Team.

Responsibilities and Rights of Faculties/Schools

2.14 Each Faculty/School and/or College has the responsibility to:

(a) create and maintain an Accessibility Advisory Committee (AAC);

(b) create and maintain an Accommodation Team (AT); and

(c) ensure that the academic integrity and standards of the program are not compromised and ensure that established entry-to-practice competencies and requirements for professional disciplines are not compromised.

Faculty/ School Accessibility Advisory Committee

2.15 Each Faculty/ School and/or College will maintain an Accessibility Advisory Committee ("AAC").

Membership of the Faculty/School AAC

2.16 The Faculty/ School AAC shall consist of the following staff:

(a) The Committee Chair will be the Associate Dean or designate, as appointed by the Dean/Director;

(b) 4 -6 Academic Staff Members of the Faculty/School as appointed by the Dean/Director; and

(c) A staff representative from SAS in a consultative role.

Responsibilities the Faculty/School AAC

2.17 The AAC will be responsible for:

(a) Advising the Dean on all matters related to accommodations including the resolution of conflict; and

(b) Reviewing impact of Accommodations on academic standards.

2.18 The AAC role is to:

(a) Meet a minimum of two times per year;

(b) Recommend Faculty/School or College policies and processes;

(c) Receive reports from the SAS representative;

(d) Monitor trends internally, locally, and nationally regarding appropriate accommodations/approaches to accommodation;

(e) Support the Accommodation Team in working through the logistics of accommodations, including the acquisition of resources

(f) Generally monitor and ensure student awareness of procedures and processes

(g) provide an annual report to the Dean, Faculty Council and Vice-Provost(Students) (a copy of the report shall also be provided to the Coordinator of SAS).

2.19 In fulfilling its responsibilities, an AAC will establish practices to include the following:

(a) a process to keep Student identities anonymous, unless not feasible based on the requirements of the Student;

(b) a process to work with and support the Accommodation Team.

Faculty/ College/School Accommodation Team

2.20 Each Faculty/School will maintain an Accommodation Team ("AT"). Where a Faculty/School is comprised of constituent Colleges, a separate AT will be maintained for each College.

2.21 The AT shall consist of the following staff appointed by the Dean/Director or designate:

(a) one or more representatives from the Faculty/ School or College who have expertise and responsibilities in the area of student academic progress;

(b) a Faculty/ School or College academic staff person who can offer insight into the essential requirements of a course/program or Bona Fide Academic Requirements; and

(c) the SAS staff member assigned to Faculty/School or College as member of the team.

2.22 The AT may consult with or add individuals to meetings as needed (for example: an academic staff person with content or assessment expertise in a particular field of knowledge).

Responsibilities the Faculty/College/School AT

2.23 The Accommodation Team (AT) shall have the following responsibilities:

(a) meet as required;

(b) review consider Non-Standard Accommodation recommendations made by Student Accessibility Services (SAS);

(c) upon request, help SAS facilitate the implementation of approved Non-Standard Accommodations;

(d) monitor individual student progress as needed;

(e) report to the Dean/Director if it appears that established processes and procedures are not understood or being followed by members of the Faculty/School or College;

(f) provide information, as appropriate and on a 'need-to know' basis, to the respective AAC and to other individuals as needed; and

(g) at least annually provide a report to the respective AAC of matters considered by the AT, outlining de-identified information regarding the number and types of issues considered, information regarding observable trends (if any), and de-identified information regarding particularly important cases.

2.24 In fulfilling its responsibilities, an AT will establish practices to include an effective system of communications that includes SAS, instructors, Academic Staff Members, department heads and the associate Dean.

Reconsideration Process

2.25 The reconsideration process is to review a Modification of a course or program requirement. Requests for Substitutions, Waivers, or Degree Notwithstanding a Deficiency must be referred directly to the appropriate authority identified in section 2.2 of this procedure.

2.26 Students who believe that they have not been treated fairly in accordance with this procedure or who believe they were not reasonably accommodated with the type of accommodation offered are expected first to discuss this matter with their SAS advisor.

2.27 Academic Staff Members concerned that the type of accommodation may compromise the academic integrity of a course or program of study are expected first to discuss this matter with the Student's SAS advisor.

2.28 Any matters unresolved by discussion between students, Academic Staff Members and the SAS advisor will be handled in accordance with the Student Accessibility Appeal Procedure.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a review of this procedure is required.

3.2 The Provost and Vice-President (Academic) is responsible for the communication, administration and interpretation of this procedure.

3.3 All Students and Employees are responsible for complying with this Policy.

Part IV

Review

4.1 Formal procedure reviews will be conducted every ten (10) years. The next scheduled review date for this procedure is January 1, 2025.

4.2 In the interim this procedure may be revised or rescinded if:

(a) the Provost and Vice-President (Academic) deems it necessary; or

(b) the relevant Policy is revised or rescinded.

4.3 If this procedure is revised or rescinded, all Secondary Documents will be reviewed as soon as reasonably possible in order to ensure that they:

(a) comply with these revised procedures; or

(b) are in turn repealed.

Part V

Effect on Previous Statements

5.1 This procedure supersedes the following:

(a) Accessibility for Students with Disabilities (January 26, 1995);

(b) all previous Board/Senate procedures, and resolutions on the subject matter contained herein; and

(c) all previous Administration procedures, and resolutions on the subject matter contained herein.

Part VI

Cross References

6.1 This procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

(a) Accessibility Policy

(b) Student Accessibility Appeal Procedure

(c) General Academic Regulations, Academic Calendar

1. Rights and Responsibilities section of policy adapted and used with permission from Mount Royal University, policy 517 Academic Accommodations for Students with Disabilities.

STUDENT ACCESSIBILITY APPEAL PROCEDURE

Part I

Reason for Procedure

1.1 To define the extent to which the University provides a process for

(a) students to appeal decisions relating to accommodation of a disability which adversely affect them; and

(b) Academic Staff Members to appeal decisions relating to student accommodation of a disability which would

undermine Bona Fide Academic Requirements or any essential skills document developed for programs that

are subject to external accreditation.

1.2 Appeals involving academic consequences related to accommodations, waiver and substitution requests and requests to graduate notwithstanding would not be heard through the Student Accessibility Procedure, but would instead be considered by Faculty/College/School appeal committees, and if not resolved, would be considered by the Senate Committee on Appeals.

Part II Procedural Content Definitions

2.1 All terms defined in the Student Accessibility Procedure shall have the same meaning in this Student Accessibility Appeal Procedure.

2.2 Students who believe that they have not been treated in accordance with the Student Accessibility Procedure, or who believe they were not reasonably accommodated by the proposed Accommodation, or who believe that the proposed Accommodation may have been different in light of new or previously unavailable information or documentation may first discuss this matter with the Coordinator of Student Accessibility Services (SAS) and request reconsideration. In seeking to resolve any disagreement, the Faculty/School Accessibility Advisory Committee may be consulted by a party.

2.3 Academic Staff Members who believe that a proposed accommodation would compromise the defined Bona Fide Academic Requirements or essential skills document in question may request that the Coordinator of SAS reconsider the proposed accommodation. In seeking to resolve any disagreement, the Faculty/School Accommodation Team and/or Accessibility Advisory Committee may be consulted. An Academic Staff Member making the request for reconsideration must make it in writing and be able to demonstrate a substantial, viable and direct connection to the student and the proposed accommodation. In such cases, the student shall be made aware of the request for reconsideration and have the opportunity to provide their position to the Coordinator of SAS before a final determination is made.

2.4 Following a request for reconsideration from a student, an Academic Staff Member or both, the Coordinator of SAS shall issue a decision in writing to the student, the Academic Staff Member and the Faculty/School, as appropriate, in a timely manner. The Coordinator of SAS will consider any deadlines which impact the student's progress in their program and will make reasonable efforts to ensure that the timing of the decision does not delay the student's progress in their program. In the event of a conflict of interest on the part of the Coordinator of SAS, the request for initial reconsideration shall be addressed to the Executive Director of Student Support.

Formal Appeal to Senate Committee on Academic Accommodation Appeals

2.5 If a student or an Academic Staff Member does not agree with the decision of the Coordinator of SAS regarding a request for reconsideration, they may file a formal appeal to the Senate Committee on Academic Accommodation Appeals. Such an appeal must be filed within ten (10) working days of the date on the letter of reconsideration, or until such time as the Chair may allow if a written request for extension is made prior to the deadline.

2.6 If an Appellant files for an appeal beyond the ten (10) working day period, the Appellant must provide written reasons for the delay. The Chair shall have the discretion to extend the deadline for filing the appeal if it is determined that there are special circumstances which justify or excuse the delay. The Chair's decision is final and not appealable.

2.7 The Appellant must submit all documentation that will be relied upon for the appeal and must include the following:

- (a) A completed and signed Senate Committee on Academic Accommodation Appeals – Appeal Form. The form is available at the Student Advocacy Office, The Office of the University Secretary, and on the University of Manitoba website;
- (b) A letter to the Chair clearly explaining the grounds for the appeal;
- (c) A copy of the letter of reconsideration from the Coordinator of SAS;

(d) A copy of all the documentation submitted in regard to the request for accommodation and reconsideration;

(e) If the Appellant intends to have a lawyer present at the appeal hearing, the name and address of the lawyer shall be provided at the time of filing the appeal.

2.8 The remedy sought of the Committee shall not differ from that requested in the reconsideration, unless extraordinary circumstances are presented.

2.9 The Appellant shall have the right to be accompanied by a spokesperson. In the event the Appellant is a student, the spokesperson may be an advocate from the Student Advocacy Office, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the university community not receiving payment for appearing, a member of the Appellant's immediate family or a lawyer. It is the Appellant's sole responsibility to ensure:

- (a) that his/her spokesperson is familiar with the Student Accessibility Appeal Procedure, the University of Manitoba Accessibility Policy and the Student Accessibility Procedure;
- (b) the adequacy of his/her representation, if any; and
- (c) to pay for his/her own lawyer's fees, if any.

2.10 Students may appeal a decision when:

Failure of Judgment

(a) they believe the decision made by the Coordinator of SAS was incorrect in his/her judgment regarding the need for, application of, or implementation of an Accommodation.

Failure of Process

(b) they believe the decision made by the Coordinator of SAS was incorrect due to a failure on his/her part or the part of SAS to dutifully perform the process of determining eligibility, or determining a reasonable accommodation.

Failure of Information

(c) they believe the determination made by the Coordinator of SAS was incorrect due to a lack of information, or documentation. Generally speaking, a failure of information is informally handled by the student providing updated or requested documentation.

2.11 Academic Staff Members may appeal a decision when:

Compromising Academic Standards

(a) they believe that the decision made by the Coordinator of SAS would undermine the Bona Fide Academic Requirements or essential skills document developed for programs that are subject to external accreditation. The onus is on the Academic Staff Member to establish how the standards or essential skills would be compromised by providing the Accommodation. If a Bona Fide Academic Requirements or an essential skills document has not been developed, no appeals shall be available to Academic Staff Members.

2.12 Academic Staff Members filing appeals under this Procedure must demonstrate a substantial, viable and direct connection to the student and the proposed accommodation.

2.13 The composition of the Senate Committee on Accommodation Appeals shall include:

- (a) Ten (10) members of the academic staff appointed by Senate for a three (3) year term;
- (b) Two (2) students appointed by Senate for a one (1) year term;
- (c) A Chair appointed by the President for a three (3) year term;
- (d) A Vice-Chair elected from and by the academic staff members for a three (3) year term.

2.14 Upon receipt of an Appeal, the Senate Committee on Academic Accommodation Appeals will notify the Dean or delegate of the Faculty/School, SAS and the respondent of a hearing date.

2.15 Appeals will be heard by a panel of at least four (4) members: two (2) academic staff members, a student and the Chair.

2.16 The Committee panel will meet to determine whether there are grounds to hear the appeal and whether the appeal falls within the jurisdiction of the Committee.

2.17 The Chair of the panel shall only vote in case of a tie.

2.18 If the panel determines that it will hear the appeal, they shall convene a hearing with the appellant, SAS or others as soon as possible to consider submissions from all the parties and Dean, if applicable. If the appellant is an Academic Staff Member, the student shall also be invited to attend the hearing.

2.19 The Committee panel may establish rules and procedures for its hearings and meetings. Such procedures must ensure fairness for all parties and facilitate a timely resolution of appeals.

2.20 The Committee panel will determine the appropriate accommodation on the basis of the student's disability and the Bona Fide Academic Requirements or essential skills document of the course or program.

2.21 The Committee panel will provide written reasons for its decision, which shall be final and binding on all parties.

2.22 All matters considered by the Committee shall be strictly confidential.

2.23 In the consideration of appeals by the Committee panel, time shall be of the essence. Attention will be paid to any deadlines which impact the student's progress in their program and reasonable efforts will be made to ensure that the decision of the Committee does not delay the student's progress.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the University Secretary that a formal review of this Procedure is required.

3.2 The University Secretary is responsible for the implementation, administration and review of this Policy and is responsible for the implementation, administration and review of this Procedure.

3.3 All Students and Employees are responsible for complying with this Policy.

Part IV Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Procedure is September 1, 2028.

4.2 In the interim, these Procedures may be revised or rescinded if:

- (a) the Provost and Vice-President (Academic) deems it necessary; or
- (b) the Procedure is no longer legislatively or statutorily compliant;
- (c) the Parent Policy is revised or repealed

Part V Effect on Previous Statements

5.1 This Procedure supersedes all of the following:

- (a) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (b) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Accessibility Policy
- (b) Student Accessibility Procedure
- (c) Senate Committee on Admission Appeals
- (d) Senate Committee on Appeals

Disclosure and Security of Student Academic Records

The University and its constituent units have a clear obligation to the student and to society concerning the disclosure and security of information about a student's academic record. All student records will be handled in accordance with The Freedom of Information and Protection of Privacy Act (Manitoba) (FIPPA) and the Personal Health Information Act (Manitoba) (PHIA) as appropriate.

Relevant Governing Documents are available online at:
http://umanitoba.ca/access_and_privacy/governance.html

Conflict of Interest Between Evaluators and Students Due to Close Personal Relationships Policy

The purpose of this policy is to ensure that the relationship between an evaluator and the person being evaluated is and is seen to be impartial.

Definitions

1. An evaluator includes any person who participates, whether at first instance or on appeal, in the process of admitting or selecting a student to a course or program, determination of a student's progress or academic standing, or the receipt by a student of a prize, award or university financial support.

2. A conflict of interest means a close personal relationship between an evaluator and a student or applicant, or between evaluators, that gives rise to a reasonable apprehension of bias and, in any event, such relationships shall include that of:

- a) parent/child;
- b) spouses;
- c) grandparent/grandchild;
- d) siblings;
- e) in-laws; or
- f) persons living in the same dwelling unit.

Procedures

1. Responsibility for avoiding the conflict of interest rests with the evaluator. In cases of uncertainty, the evaluator shall and the student may refer the matter for determination to the department head (or dean/director, as appropriate). The decision of the department head is subject to review by the dean/director of the academic unit.

2. Where there is a conflict of interest, the evaluator shall immediately withdraw from participation and shall inform the student concerned and the head or dean/director, as appropriate.

a) Where alternative sections or electives exist, the alternative must be taken, unless the dean/director concerned determines that this will create an undue hardship for the student.

b) Where the dean/director has exercised discretion under 2.(a) or where no alternatives exist to compulsory courses, the dean/director shall ensure fair evaluation by having another suitably qualified evaluator review the submitted material or hear the oral presentations. Where practicable, the evaluator shall not participate in setting the examination or other evaluation method.

3. Where the dean or director has a conflict of interest, the President shall name a replacement to act in the matter.

4. In the case of failure to observe these regulations, staff members will be subject to the discipline procedures provided by the appropriate collective agreement or personnel policy of the University.

This Policy is available online at: http://umanitoba.ca/admin/governance/governing_documents/students/277.html

Campus Alcohol Policy

1.0 Reason for Policy

This policy is a general statement and guideline, setting out the University's requirement for strict compliance with the Liquor Control Act (Manitoba), as well as any rules and regulations, and any successor or replacement rules and regulations, at all events and facilities at which alcohol is available. This policy is further to the Liquor Control Act (Manitoba), as well as any rules and regulations and directives issued pursuant to the Act (The "MLCC rules and regulations").

2.0 Policy Statement

2.1 Alcohol abuse is a serious health problem and can lead to conduct that may endanger the safety of individuals and result in damage to property both on and off the University of Manitoba Fort Garry and Bannatyne Campuses (the "Campuses"). This in turn may result in legal claims involving the University and others. The purpose of this policy is to explicitly establish the general means by which alcohol abuse on the Campuses can be reduced, and to the extent possible, eliminated.

2.2 The University shall meet the policy's objective by:

2.2.1 Offering an alcohol education and awareness program within the scope of programs offered by or through Student Affairs;

2.2.2 Maintaining University guidelines with respect to the serving and consumption of alcohol on the Campuses;

2.2.3 Requiring that events and facilities at which alcohol is served on the Campuses (the "events and facilities") be managed effectively, and in accordance with the University's policy and procedures and MLCC rules and regulations; and This policy applies broadly, and covers all events and facilities on the Campuses.

This Policy is available online at http://umanitoba.ca/admin/governance/governing_documents/community/253.html.

University Parking Regulations

Parking

Part I

Reason for Regulation

1.1 The University of Manitoba recognizes that at any given time there is a large number of Motor Vehicles driving and parking on campus. In order for the University to maintain orderly conduct of parking of Motor Vehicles, Parking Regulations must be established. Furthermore, as an ancillary service, parking must be operated on a cost recovery basis. These regulations set out the rules, fees and remedies available in association with parking on University Property, and they apply to all staff, students, and the general public. The University of Manitoba Act, which is an act of legislature, empowers the University of Manitoba to govern parking on University Property and to make parking regulations. This includes fees and charges for parking violations and actions taken for failure to pay fees and charges.

Part II

Regulation Content Introduction

2.1 Responsibility for the overall administration and implementation of the Parking Regulations (the "Regulations") of the University of Manitoba (the "University") rests with the Vice-President (Administration), who may from time to time delegate to others aspects of the administration or implementation of the Regulations.

2.2 All members of the University community and persons attending on University Property are required to familiarize themselves and comply with the Regulations.

2.3 The Regulations are in addition to any bylaws of the City of Winnipeg and any legislation and regulations of the Province of Manitoba regulating the operation or use of Motor Vehicles or regulating the crossing of or walking upon roadways by pedestrians.

2.4 Nothing contained in these Regulations shall be deemed to limit the University's remedies or actions, either at law or through the University's policies, in respect of any matter arising under these Regulations.

General Definitions

2.5 The following terms have the following defined meaning for the purpose of this Regulation:

- (a) Designated Accessible Parking Area means a parking space designated for individuals with physical disabilities.
- (b) Event means any event being held at the Investors Group Field with an expected attendance of 15,000 or more individuals.
- (c) Event Day shall mean the date on which there is a scheduled Event at the Investors Group Field.
- (d) Investors Group Field Event Designated Parking Lots shall mean any parking lot on University Property, on Event Day, designated and posted by the University as such, and shall not include University Designated Parking Lots.
- (e) Motor Vehicles includes reference to motorcycles, mopeds and scooters, and where appropriate, snowmobiles, bicycles, golf carts and all-terrain vehicles.
- (f) Parkade means a multilevel structure located on University property designed for the parking of Motor Vehicles
- (g) Parking Fee means the fee corresponding to the rates set annually by the Vice-President (Administration) or designate for all available parking permits.
- (h) Parking Services means the persons or administrative unit of the University to whom the Vice-President (Administration) may from time to time delegate responsibility for administration of parking permits and for the designation and assigning of parking areas.
- (i) Public Pay Parking Area means any parking area on University Property, excluding the Parkade, designated by the University with signage as visitor or casual parking with a parking meter, pay and display dispenser, pay-by-plate parking meter, or mobile payment application, or such other similar technology as may become available.
- (j) Reserved Parking Areas means areas designated by the University as reserved 24 hour parking areas located in various parking lots on University Property.
- (k) University Designated Parking Lots shall mean any parking lot on University Property, on Event Day, designated and posted by the University as such, and all shall not include Investors Group Field Event Designated Parking Lots.
- (l) University Property means property owned and occupied or under the charge or control of the University, including roadways and including property at Investors Group Field and SmartPark.
- (m) University Security Services means the administrative unit of the University, the members of which are provincially licensed security guards and may include others contracted by the Vice-President (Administration) from time to time to assist in the implementation of the Regulations.
- (n) Violation Notice means a notice or form issued by the University to any operator or owner charged with violation of any of the provisions of this Regulation.

Headings of Paragraphs

2.6 All headings in the Regulations are inserted solely for convenience of reference and shall not be deemed in any way to limit or affect the provisions to which they relate.

Scope of Regulations

2.7 The Regulations, without any exceptions, apply to:

- (a) all persons who park, stop or leave a Motor Vehicle on University Property; and
- (b) all owners of Motor Vehicles which are parked, stopped or left on University Property.

Procedure Where No Assigned Parking Space Available

2.8 Subject to sections 2.36-2.38 on Event Parking, holders of a valid staff parking permit who find their assigned parking area fully occupied may park in the next most convenient parking area (other than a reserved parking area, an accessible parking area, a residence student parking area, a metered parking area, a Public Pay Parking Area or a Parkade) and must immediately report the matter to Parking Services. The report should include the Motor Vehicle license number and staff permit number.

2.9 Subject to sections 2.36-2.38 on Event Parking, holders of any other valid parking permit who find their assigned parking area fully occupied should contact Parking Services for directions on where to park without penalty.

Rates

2.10 Rates for all forms of available parking permits at the University (including rates for parking permit replacements) are set annually by the Vice-President (Administration) or designate and are posted at umanitoba.ca/parking.

Parking Permits – General**Eligibility and Priority**

2.11 All persons are eligible to apply for a parking permit as hereinafter provided. Priority in allocation of parking permits will be given to full-time staff members and students of the University. Any person applying for a parking permit may be required to provide identification in order to establish eligibility.

Authorization

2.12 On Monday to Friday from 7:30 a.m. to 4:30 p.m. a parking permit is required for any Motor Vehicle parked or left on University Property in an assigned parking area, unless the Motor Vehicle is otherwise parked at a meter, Public Pay Parking Area or Parkade in compliance with the Regulations. A parking permit conveys the authorization by the University for a specific Motor Vehicle, registered with Parking Services, to be parked in an assigned parking area. Registration includes an application form and payment of the Parking Fee. Each permit will indicate the category of parking authorized and, if appropriate, the area on campus where that Motor Vehicle is authorized to park.

Reserved Twenty-Four (24) Hour Parking

2.13 Subject to sections 2.36-2.38 on Event Parking, certain areas in various parking lots will be designated by the University as Reserved Parking Areas. Parking in a Reserved Parking Area is limited to Motor Vehicles displaying a valid parking permit for that specific Reserved Parking Area. Reserved Parking Areas are appropriately signed and identified.

Alternate Parking Permit

2.14 Effective September 13, 2013, alternate parking permits will no longer be issued by Parking Services. All current alternate permit holders may keep their eligibility until such time as they cancel their parking privileges or their termination of employment with the University. Eligible staff members who may be using an alternate vehicle on University Property and previously applied for alternate parking permits may retain their alternate permit upon payment of the appropriate fee in effect at the time of application and provided the second Motor Vehicle is registered and the staff member complies with any University policies, procedures, regulations and other rules then in effect. Where an alternate parking permit has been issued, only one (1) registered Motor Vehicle at any time is authorized to park on University Property at any given time (unless the second registered Motor Vehicle is otherwise parked at a metered or Public Pay Parking Area or Parkade in compliance with the Regulations).

Affixing or Displaying Parking Permits

2.15 Parking permits must be properly affixed or displayed on the Motor Vehicle as follows:

- (a) parking permit decals issued by the University must be affixed on the lower corner of the front windshield on the driver's side of the Motor Vehicle. The backing must be removed from the permit and the permit affixed to the glass using the adhesive which is on the permit; and,
- (b) parking permit hang tags issued by the University must be displayed according to directions printed on the permit.

2.16 Expired, invalid and cancelled parking permits must be removed from Motor Vehicles immediately after the expiry, invalidation or cancellation date and not displayed in conjunction with a valid parking permit.

Parking Permit Replacement

2.17 Parking permit replacements may be issued, at a predetermined rate, to eligible permit holders when parking permits have been lost or stolen.

2.18 Parking permit replacements may be issued, at no cost, to eligible permit holders where parking permits, through weather damage or fading, are in need of replacement, as determined by Parking Services.

2.19 Where a parking permit replacement is issued, the original parking permit must be returned to Parking Services, unless lost or stolen. If the parking permit has been lost or stolen, an affidavit will be required from the permit holder.

Term of Permit

2.20 Parking permits are issued for a specified period of time, but immediately become invalid upon the happening of any of the following events:

- (a) on the date of expiration shown on the parking permit (if applicable);
- (b) when the parking permit is displayed on a Motor Vehicle other than the Motor Vehicle for which it was issued;
- (c) when the parking permit is not legible or has been altered;
- (d) when the parking permit has been cancelled or revoked;
- (e) when the parking permit is lost or stolen;
- (f) when the Motor Vehicle for which the parking permit is issued has been placed on the University's tow away list;
- (g) when the applicant for a parking permit gives false or incorrect information at the time of application; and
- (h) when a residence student of the University vacates or is required to vacate a residence located on University Property (even if the property is leased from the University).

Permits Not Transferable

2.21 Parking permits are not transferable and may be used only for the Motor Vehicle in which the permit was issued unless otherwise authorized in writing by Parking Services. Parking permits remain the property of the University and must be destroyed when the permit expires or becomes invalid.

Permits for Persons with Physical Disabilities

2.22 Any persons with physical disabilities may apply to Parking Services for a parking permit for Designated Accessible Parking Areas as determined by Parking Services. In order to qualify for a parking permit for Designated Accessible Parking Areas, a valid Society for Manitobans with Disabilities ("SMD") parking permit must be presented by the permit applicant. The SMD permit expiry date will be relied upon by Parking Services to determine the length of time for which the parking permit for Designated Accessible Parking Areas is required.

2.23 Holders of valid University accessible parking permits who find no signed Designated Accessible Parking Area is available, may park in the next most convenient parking area (other than a residence student parking area, or parking lots N, O and V, as designated by the University) and must immediately report the matter to Parking Services. The report should include the vehicle license number and accessible parking permit number.

Bicycles

2.24 Bicycles should be parked only in proper University bicycle racks or the University Parkade Bike Station. Parking and storing of bicycles inside any University building, or in any manner which may create a problem related to pedestrian safety, building access or maintenance, as determined by the University, is prohibited. Bicycles parked in such a fashion are subject to removal by the University and their owners may be subject to a fee or charge, at rates established by the University, from time to time.

Rights of Cancellation

2.25 Notwithstanding any other provision of these Regulations, the University may withdraw areas normally used for parking and cancel any parking permit if the parking area referred to therein is required for construction or other purposes. If the assigned parking area or any portion thereof for which the parking permit is valid is deemed by the University to be required for other purposes and if alternative parking is not provided by the University, the unearned portion of the Parking Fee, minus any amounts

due and owing to the University as fees or charges incurred as a result of parking or leaving Motor Vehicles on University Property in contravention of the Regulations, will be refunded to the registered parking permit holder.

Staff and Student Parking

Application for Parking

2.26 Staff members intending to park a Motor Vehicle, other than a bicycle, on University Property must apply for assigned parking at Parking Services, unless the Motor Vehicle is otherwise parked at a metered parking area, Public Pay Parking Area or Parkade in compliance with the Regulations.

2.27 Students intending to park a Motor Vehicle on University Property must apply for assigned parking at Parking Services or through any other valid registration system authorized by the University, unless the Motor Vehicle is otherwise parked at a metered parking area, Public Pay Parking Area or Parkade in compliance with the Regulations.

Conditions of Parking

2.28 Parking permits authorize the registered permit holder to park in the parking area designated by the parking permit in accordance with the terms and conditions displayed on the parking permit or in the parking contract signed by the permit holder.

2.29 In some parking areas, electricity is supplied to electrical outlets depending on climatic conditions.

Summer Parking Permits

2.30 Summer parking permits may be issued upon application and authorize the registered permit holder to park in the parking area designated by the parking permit during the period of May 1 to August 31 upon payment of fees, to be set by the University and posted on www.umanitoba.ca/parking.

Residence Student Parking

2.31 Residence student parking areas are reserved on a twenty-four (24) hour basis for residence students of the University. Residence students who own and operate a Motor Vehicle, while maintaining approved residence on University Property, may apply for available residence parking permits and must submit proof of ownership of the Motor Vehicle acceptable to Parking Services. These permits will be withdrawn by the University if the residence student vacates or is required to vacate residence on University Property, and the unearned portion of the Parking Fee, minus any amounts due and owing to the University as fees or charges incurred as a result of parking or leaving Motor Vehicles on University Property in contravention of the Regulations, will be refunded to the registered parking permit holder.

Visitor Parking

Visitors

2.32 Subject to sections 2.36-2.38 on Event Parking, and unless otherwise posted by the University, visitors may park in metered and Public Pay Parking Areas or a Parkade at the posted rate, on Monday to Friday from 7:30 a.m. to 4:30 p.m. Monday to Friday from 4:30 p.m. to 7:30 a.m. and on Saturdays and Sundays, visitors may park in all parking areas without charge, unless otherwise posted by the University. Visitors must at all times comply with the Regulations.

2.33 Any visitor (including contractors, trades people, and persons attending conferences and seminars) who wishes to park other than at a metered parking area, Public Pay Parking Area or Parkade must obtain written parking authorization through Parking Services in advance and must comply with the Regulations.

2.34 On an Event Day, visitors may not park or leave a Motor Vehicle in any parking area or parkade, except as designated by the University with signage and/or on www.umanitoba.ca/parking, beginning ninety (90) minutes before an Event until one (1) hour after an Event.

Couriers

2.35 Courier companies making deliveries to the University are to use designated building loading zones and must comply with the Regulations. Parking is not to exceed the posted allowable time in duration and courier vehicles must be visibly identified as such.

Event Day Parking

Investors Group Field event Designated Parking Lots

2.36 Notwithstanding anything else in these Regulations, beginning ninety (90) minutes before the scheduled start of an Event and until one (1) hour after the end of any Event, no person shall stop, park or leave any Motor Vehicle in any Investors Group Field Event Designated Parking Lot, except in accordance with the authorization granted by a valid Investor's Group Field parking pass or paid Event parking ticket.

University Designated Parking Lots

2.37 Notwithstanding anything else in these Regulations, beginning ninety (90) minutes before the scheduled start of an Event and until one (1) hour after the end of any Event, no person shall stop, park or leave any Motor Vehicle in any University Designated Parking Lot without displaying a valid University of Manitoba parking permit. University Designated Parking Lots will be available to University of Manitoba parking permit holders on a first-come, first served basis and space will not be guaranteed.

Visitor Parking on Event Day

2.38 Notwithstanding anything else in these Regulations, visitor parking areas at the University of Manitoba during Events will be temporarily unavailable except as designated by the University with signage and/or on www.umanitoba.ca/parking. This will include all Public Pay Parking Areas, metered areas and Parkades.

Stalls Equipped With Heater Plugs

Restriction on Use of Power

2.39 No person shall use any plug except for the sole purpose of drawing power for a Motor Vehicle block heater or to charge an electric vehicle in the appropriately designated stall and no device may be used to supply power to another Motor Vehicle.

Faulty Heater Plugs

2.40 Faulty plugs should be reported as soon as possible to the University's Physical Plant Department, or such other or substitute office as may be instituted in its place by the University from time to time.

Liability

2.41 The University, its employees, servants and agents assume no responsibility for any inconvenience, loss of, or damage to, a Motor Vehicle or its contents while on University Property, including, but not limited to any inconvenience, loss or damage caused by or attributable to fire, theft, collision electrical surges or interruptions of the supply of electricity or otherwise.

Parking and Operation of Motor Vehicles

Prohibitions

2.42 No person shall stop, park or leave any Motor Vehicle, except for bicycles, upon any part of University Property except in accordance with the authorization granted by a valid parking permit and the Regulations provided that, bicycles shall remain subject to all other Regulations and policies of the University.

2.43 Except as specifically authorized by a valid parking permit, no person shall stop, park or leave a Motor Vehicle alongside any building on University Property.

2.44 No person shall stop, park, leave or operate a Motor Vehicle on sidewalks, paths, loading zones, landscaped areas or within three (3) meters of a fire hydrant on University Property except in the course of the performance of essential University business.

2.45 No person shall stop, park or leave a Motor Vehicle in specific areas and roadways on University Property identified and signed as fire lanes.

2.46 No person shall stop, park or leave a Motor Vehicle in a metered space on University Property when the meter at that space is hooded.

2.47 No person shall stop, park or leave a Motor Vehicle idling in an area designated by the University as a "No Idling" Zone, on University Property as indicated by appropriate signage.

2.48 No person shall stop, park or leave a Motor Vehicle in a metered space, Public Pay Parking Area, Parkade or in any parking stall on University Property in such a manner that the Motor Vehicle is not wholly within the metered space or parking stall.

2.49 No person shall move, disfigure, or in any way tamper with any parking control signs posted or erected on University Property.

2.50 No person shall stop, park, leave or operate a snowmobile on University Property, unless specifically authorized by the Vice-President (Administration), or designate, who may set terms and conditions in connection with such authorization wherever appropriate.

2.51 No person shall stop, park or leave a Motor Vehicle in a reserved parking area, a signed Designated Accessible Parking Area or a residence parking area at any time without a valid parking permit for that area unless otherwise posted.

2.52 No person shall permit a Motor Vehicle to be stopped, parked or left in a metered space on University Property when the violation signal of the meter indicates a violation or when the pay parking ticket has expired.

2.53 No person shall stop, park or leave a Motor Vehicle within a Public Pay Parking Area, a metered space or a Parkade, without purchasing parking from a pay & display parking dispenser, parking meter, or mobile payment application on University Property.

2.54 No person shall stop, park or leave a Motor Vehicle from 7:30 a.m. to 4:30 p.m., Monday through Friday, in a signed parking area on University Property, without displaying a valid parking permit for that area.

2.55 Prohibitions 2.42 through 2.50 and 2.56 through 2.59 shall be in effect at all times. Prohibitions 2.51 through 2.54 shall apply at all times except on Saturday, Sunday and holidays, unless otherwise posted or noted in the Regulations.

Theft of Service

2.56 No person shall deposit or cause to be deposited in a single or multi-space parking meter, parking pay station or pay & display machine, any substitute for a coin of Canada; or, deface, damage, tamper or impair the working of any single or multi-space parking meter, meter pole, electronic parking pay station, pass card reader, transponder or reader, Parkade ticket terminal, pay & display machine or pay parking lot gate.

2.57 No operator of a Motor Vehicle shall, during the hours of operation, on entry into a Parkade, proceed without first obtaining a pay parking ticket from either the attendant or the automated ticket dispenser for that Parkade. On exiting from that Parkade, no Motor Vehicle operator shall proceed to exit without stopping and submitting the pay parking ticket to either the attendant or an automated pay station or terminal and paying the required fee.

2.58 No operator of a Motor Vehicle shall, during the hours of operation, as posted by the University, on entry into a Public Pay Parking Area, or a multi-space meter area, park without first paying for parking from either the attendant or the automated machine for that area.

2.59 No operator of a Motor Vehicle shall, during the hours of operation, display an altered, forged, copied or stolen parking permit and/or pay & display receipts or any other type of ticket normally issued for parking on University Property.

Parking Signs

2.60 Operators of Motor Vehicles shall obey any parking signs on University Property erected by either the University or with the consent of the University.

Temporary "No Parking" Signs

2.61 Where it is necessary to erect temporary "No Parking" signs in areas normally allotted for parking under the Regulations for such reasons as snow removal, cleaning, construction, special events or other good reasons, as same may be deemed by the University, such "No Parking" signs shall be observed and have priority over normal parking privileges. Wherever possible, persons temporarily displaced by the erection of such emergency signs will be assigned to other locations.

Fees and Charges

2.62 Authority. Pursuant to subsection 16(1) of The University of Manitoba Act, the University is authorized to impose fees and charges to be paid by owners or operators of Motor Vehicles stopped, parked in or left on University Property in contravention of the Regulations.

2.63 Notice of Parking Violation. A Violation Notice may be issued by the University to any operator or owner charged with violation of any of the provisions hereof. The owner of a Motor Vehicle may be responsible for payment of any fees or charges in connection with the Violation Notice issued to that vehicle unless the owner can prove to the satisfaction of the University that the Motor Vehicle was not being operated by and/or was not parked or left by the owner or by any other person with the owner's express or implied consent

2.64 Failure to Pay Fees or Charges. Violation Notices must be settled within ten (10) days from the date of issue, failing which the University shall proceed to take all necessary legal action to receive payment of such fees and charges together with any costs incurred by the University in taking such legal action.

2.65 Service of Violation Notices. A Violation Notice shall be sufficiently served if served in any of the following ways:

- (a) by being handed to the operator of the Motor Vehicle;
- (b) by being mailed, either by regular mail or by electronic mail, to the address of the person registered as the owner of the Motor Vehicle concerned; or,
- (c) by such violation notice being attached to, or left under, the windshield wiper or attached to the windshield of the Motor Vehicle.

2.66 Content of Violation Notice. The Violation Notice shall have endorsed thereon the following:

- (a) "This parking violation is issued pursuant to section 16 of The University of Manitoba Act by authority of the Board of Governors of the University, or such other substitute office as may be instituted in its place by the University, from time to time, for a contravention of the Parking Regulations".

2.67 Amount of Fees and Charges. Fees and charges for parking violations are as follows:

- (a) for all violations other than those listed in subsections (b) to (h):
 - (i) Option "A" – THIRTY FIVE DOLLARS (\$35.00) if paid within ten (10) days of the date the contravention occurred; and
 - (ii) Option "B" – SEVENTY DOLLARS (\$70.00) if paid thereafter.
- (b) for possession and/or display of a stolen altered, copied or forged parking permit or pay & display parking ticket or receipt or any other type of ticket normally issued for parking on University Property – THREE HUNDRED AND FIFTY DOLLARS (\$350.00) and a charge in an amount equal to the costs that would have been incurred for the purchase of a parking permit or pay parking ticket for the period during which the stolen or forged parking permit or pay parking ticket was being used upon order of the Vice-President (Administration) under section 2.74;
- (c) for a violation of sections 2.56 through 2.58 - THREE HUNDRED AND FIFTY DOLLARS (\$350.00) and such amount as the University may deem appropriate in order to compensate the University for losses suffered as a result of damage to property caused by the person, upon order of the Vice-President (Administration) under section 2.75;
- (d) for stopping or parking in an Accessible Parking Space:
 - (i) Option "A" – ONE HUNDRED AND FIFTY DOLLARS (\$150.00) if paid within ten (10) days of the date the contravention occurred; and
 - (ii) Option "B" – THREE HUNDRED DOLLARS (\$300.00) if paid thereafter;
- (e) for stopping or parking in a fire lane:
 - (i) Option "A" – FIFTY DOLLARS (\$50.00) if paid within ten (10) days of the date the contravention occurred; and

- (ii) Option "B" – ONE HUNDRED DOLLARS (\$100.00) if paid thereafter; and
- (f) for violations of sections 2.36 and/or 2.37:
- (i) Option "A" – FIFTY DOLLARS (\$50.00) if paid within ten (10) days of the date the contravention occurred; and
- (ii) Option "B" SEVENTY FIVE DOLLARS (\$75.00) if paid thereafter.
- (g) for displaying an invalid permit or pay parking ticket:
- (i) Option "A" – SEVENTY FIVE DOLLARS (\$75.00) if paid within ten (10) days of the date the contravention occurred; and
- (ii) Option "B" ONE HUNDRED AND FIFTY DOLLARS (\$150.00) if paid thereafter.
- (h) for violations of section 2.48:
- (i) Option "A" – TWENTY DOLLARS (\$20.00) if paid within ten (10) days of the date the contravention occurred; and
- (ii) Option "B" – FORTY DOLLARS (\$40.00) if paid thereafter.

The University may require payment of fees and/or charges for parking violations under more than one of the above noted subsections, with respect to a single incident, as the University, within its sole discretion may determine is appropriate.

2.68 Voluntary Payment. Any fees or charges issued under sections 2.42-2.59 on Prohibitions may be paid within the time limit indicated on the notice thereof as follows:

- (a) by on-line payment, on a twenty-four (24) hour basis, by visiting the University's website at www.umanitoba.ca/parking;
- (b) by mail or after hours deposit (cheques only) at Parking Services at the Welcome Centre, 423 University Crescent, or such other location as the office may be located in from time to time;
- (c) in person Monday to Friday, between the hours of 8:00 a.m. and 4:30 p.m. at Parking Services at the Welcome Centre, 423 University Crescent, or such other location as the office may be located in from time to time.

2.69 An administration fee will be assessed by the University for all returned NSF cheques and stop payments.

2.70 Stolen, Altered, Copied or Forged Parking Permits and Pay Parking Tickets. Where a person has been found in possession of and/or displaying a stolen, altered, copied or forged parking permit or pay parking ticket any other type of ticket normally issued for parking on University Property:

- (a) the unauthorized parking permit or pay parking ticket shall be confiscated;
- (b) the person shall pay a fine in accordance with section 2.67 of:
 - (i) Option "A" – SEVENTY-FIVE DOLLARS (\$75.00) if paid within ten (10) days of the date the contravention occurred; and
 - (ii) Option "B" – ONE HUNDRED AND FIFTY DOLLARS (\$150.00) if paid thereafter; and
- (c) upon the order of the Vice-President (Administration), the person:
 - (i) shall pay a fee of THREE HUNDRED AND FIFTY DOLLARS (\$350.00);
 - (ii) shall be required to make payment to the University in an amount equal to the costs that would have been incurred for the purchase of a parking permit or pay parking ticket for the period during which the stolen or forged parking permit or pay parking ticket was being used or in order to compensate the University for losses suffered as a result of damage to property caused by the person that violated one or more of sections 2.56-2.59; and
 - (iii) shall not be entitled to, and shall be prohibited from, parking a Motor Vehicle on University Property for a period of up to twelve (12) months, during which time any Motor Vehicle registered to that person may be towed away and impounded under Sections 2.76-2.79 on Removal, Impoundment and Liability.

2.71 Violation of Sections 2.56 - 2.59. Where a person has violated one or more of sections 2.56 – 2.59:

- (a) the person shall pay a fine in accordance with section 2.67 of:
 - (i) Option "A" – SEVENTY-FIVE DOLLARS (\$75.00) if paid within ten (10) days of the date the contravention occurred; and
 - (ii) Option "B" – ONE HUNDRED AND FIFTY DOLLARS (\$150.00) if paid thereafter; and
- (b) upon the order of the Vice-President (Administration), the person:
 - (i) shall pay a fee of THREE HUNDRED AND FIFTY DOLLARS (\$350.00);
 - (ii) shall pay such amount as the University may deem appropriate in order to compensate the University for losses suffered as a result of damage to property caused by the person that violated one or more of sections 2.56-

2.59; and

(iii) shall not be entitled to, and shall be prohibited from, parking a Motor Vehicle on University Property for a period of up to twelve (12) months, during which time any Motor Vehicle registered to that person may be towed away and impounded under Sections 2.76-2.79 on Removal, Impoundment and Liability.

Appeals and Extenuating Circumstances.

2.72 Those persons wishing to appeal and outline extenuating circumstances, or appeal a Parking Fee or Violation Notice issued under section 2.67 (excluding clauses e-f of section 2.73), may do so as follows:

- (a) with respect to fees or charges for parking in contravention of the Regulations – attend to Parking Services at the Welcome Centre, 423 University Crescent, (or such other location as the office may be located in from time to time), Monday through Friday, 8:00 a.m. to 4:30 p.m. respecting a fee or charge; or
- (b) with respect to appeals of decisions under (a) above and with respect to the other decisions issued under sections 2.71 through 2.73 inclusive – appeal to the Vice-President (Administration) or such person or body designated by the Vice-President (Administration) in accordance with procedures established from time to time.

Revocation of Parking Permits

2.73 Revocation of Parking Permit. In addition to any other fees or charges provided by the Regulations, a parking permit of an individual violating the Regulations, may be revoked by the Vice-President (Administration) at his/her sole discretion.

2.74 Prohibition from Parking on University Property. Any person whose parking permit is revoked may also be prohibited by the Vice-President (Administration) from parking, stopping or leaving a Motor Vehicle on University Property for a period of up to twelve (12) months, during which time any Motor Vehicle registered to that person may be removed and impounded under sections 2.76-2.79 on Removal, Impoundment and Liability.

Failure to Pay

2.75 Failure to Pay Fees or Charges. Where a person does not pay the fees or charges owing under sections 2.67, 2.70 or 2.71, any one (1) or more of the following actions may be taken by the University:

- (a) discipline (including dismissal) of faculty and staff members;
- (b) discipline of students under the Student Discipline Bylaw;
- (c) withholding of examination marks, transcripts, diplomas, or denying registration and registration materials until the outstanding fees or charges have been paid in full or other arrangements have been made which are satisfactory to the University;
- (d) revocation of a parking permit under section 2.71 and prohibition from parking on University Property under section 2.72;
- (e) withholding of the issuance of any new parking permits;
- (f) removal and impoundment of a Motor Vehicle under sections 2.76-2.79 on Removal, Impoundment and Liability; and
- (g) collection activities by the University or by others at the request of the University, including the issuance of a Statement of Claim in a civil court against the owner or operator of a Motor Vehicle for the amount of the fee or charge and all costs relating to and including the costs of removal, impoundment and storage of the Motor Vehicle, as well as any legal costs incurred by the University in taking such collection activities and/or legal action.

Removal, Impoundment and Liability

2.76 Motor Vehicles parked or left on University Property may be removed, impounded and stored if such Motor Vehicles are considered by the University to be impeding snow removal operations or any other essential operation whatsoever or where removal or impoundment of the Motor Vehicle is deemed to be reasonable in the sole discretion of the University.

2.77 Motor Vehicles parked or left on University Property on an Event Day may be removed, impounded and stored if such Motor Vehicles are parked in in contravention of these Regulations, as determined by the University in

its sole discretion.

2.78 In addition to any other fee, charge or consequence provided by these Regulations, a Motor Vehicle removed and impounded under these Regulations shall be at the owner's risk. The owner or operator shall be responsible for the charges incurred for removal, impoundment and storage, which charges must be paid before the Motor Vehicle will be released.

2.79 Neither the University, nor its employees, servants or agents, shall be liable in any way whatsoever for such damage or inconvenience in the event of any damage or inconvenience caused by reason of any Motor Vehicle being towed away, removed, stored or impounded in accordance with these Regulations.

Liability for Lost, Stolen or Damaged Property

2.80 Neither the University, nor its employees, servants or agents, shall be liable in any way whatsoever for any lost, stolen or damaged property contained within the Motor Vehicle or any loss, damage or theft to the Motor Vehicle, notwithstanding that the loss, theft or damage may have occurred while on University Property.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the Vice-President (Administration) that a formal review of this Regulation is required.

3.2 The Manager, Parking Services is responsible for the implementation, administration and review of this Regulation.

3.3 Students, External Parties and All Employees are responsible for complying with this Regulation.

Part IV Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Regulation is March 20, 2022.

4.2 In the interim, this Regulation may be revised or repealed if:

- (a) the Vice-President (Administration) or the Approving Body deems it necessary or desirable to do so;
 - (b) the Regulation is no longer legislatively or statutorily compliant; and/or
 - (c) the Regulation is now in conflict with another Governing Document.
- 4.3 If this Regulation is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

- (a) comply with the revised Regulation; or
- (b) are in turn repealed.

Part V Effect on Previous Statements

5.1 This Regulation supersedes all of the following:

- (a) Parking for Invited Guests, Visitors, Conference and Special Events Policy;
- (b) Parking Regulations (2011)
- (c) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (d) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Regulation should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) <http://www.umanitoba.ca/parking>

This policy is available online at

http://umanitoba.ca/admin/governance/governing_documents/community/255.html.

Student Discipline Bylaw

Students are expected to conduct themselves responsibly with due regard for the rights of others and to maintain a high level of personal and academic integrity. Students who transgress these standards, whether expressed in policy or implied in generally accepted codes of conduct, can expect disciplinary action. Penalties arising from disciplinary actions may include fines, withholding of student privileges, suspension or expulsion from programs, or some other action specific to the situation. Penalties may also affect student eligibility to continue in their programs or to graduate.

Student Discipline Bylaw

Part I Reason for Bylaw

1.1 The reason for this Bylaw is to outline the Disciplinary Actions available to Disciplinary Authorities and the subsequent appeal process available to Students for findings of Academic Misconduct and Non-Academic Misconduct.

Part II Policy Content Definitions

2.1 The following terms are defined for the purpose of this Bylaw:

- (a) "Academic Misconduct" has the same meaning as defined in section 2.5 of the Student Academic Misconduct Procedure.
- (b) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (c) "Appeal Procedure" means the Student Discipline – Appeal Procedure.
- (d) "Bylaw" means the Student Discipline Bylaw.
- (e) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (f) "Disciplinary Action" means the specific disciplinary actions available for each Disciplinary Authority under Table 3: Disciplinary Actions and Disciplinary Authorities.
- (g) "Disciplinary Authority" means the discipline authority designated to determine a matter of student discipline under:
 - (i) Table 1: Jurisdiction of Disciplinary Authorities for Academic Misconduct; or
 - (ii) Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct.
- (h) "Expulsion" has the same meaning as defined under section 2.16 of this Bylaw.
- (i) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (j) "Non-Academic Misconduct" has the same meaning as defined in section 2.5 of the Student Non-Academic Misconduct and Concerning Behaviour Procedure.
- (k) "Reprimand" has the same meaning as defined under section 2.6 of this Bylaw.
- (l) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (m) "Student" means any of the following individuals:
 - (i) Admitted – an individual who has accepted an offer of admission to the University;
 - (ii) Current – an individual who is either registered in course(s) or in a program of studies at the University or is eligible to continue in their studies at the University either because the individual meets minimum academic performance requirements or will be eligible to continue after discharging a financial hold or serving Suspension due to academic or discipline;
 - (iii) Former – an individual who has graduated from the University or who has withdrawn (either voluntarily or was required to withdraw).
- (n) "Suspension" has the same meaning as defined in section 2.8 of this Bylaw.

- (o) "Table 1" refers to Table 1: Jurisdiction of Disciplinary Authorities for Academic Misconduct, which follows the Bylaw.
- (p) "Table 2" refers to Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct, which follows the Bylaw.
- (q) "Table 3" refers to Table 3: Disciplinary Actions and Disciplinary Authorities, which follows the Bylaw.
- (r) "Unit" means a Faculty, School, College, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or Vice-Provost. An academic department within a Faculty/College/School is not a Unit as the term is used within this Bylaw.
- (s) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents and Vice-Provosts with respect to their Units.
- (t) "University" means The University of Manitoba.
- (u) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, Students, volunteers, external parties, contractors and suppliers.
- (v) "UDC" means the University Discipline Committee composed under section 2.53 of the Appeal Procedure.

Disciplinary Actions

- 2.2 Students will be subject to Disciplinary Action under this Bylaw for acts of Academic Misconduct and for acts of Non-Academic Misconduct.
- 2.3 The Disciplinary Actions available to a Disciplinary Authority are set out in Table 3.
- 2.4 Once a Disciplinary Action has been implemented, no further Disciplinary Action may be imposed for the same matter except as a result of an appeal by the Student.

Student Academic History/Transcript with regard to Disciplinary Actions

- 2.5 Disciplinary Actions implemented shall not ordinarily be recorded on the Student's academic history / transcript except in the following:
- (a) if the Student receives Suspension or Expulsion under sections 16, 17, 20 or 26 of Table 3; or
- (b) a Reprimand has been ordered recorded on a Student's academic history / transcript under section 2 of Table 3.

Reprimand

- 2.6 "Reprimand" means an action intended to convey stern disapproval to a Student by means of recording their Academic Misconduct or Non-Academic Misconduct on their Student's academic history / transcript for a period of up to five (5) years.
- 2.7 Where a Reprimand has been ordered to be recorded on the Student's academic history / transcript (see section 2 of Table 3), the Reprimand shall be removed:
- (a) Following the elapse of the specified period of time, upon the written request of the Student to the Registrar; or
- (b) Earlier, upon a written order from the Disciplinary Authority that implemented the Disciplinary Action.

Suspensions

- 2.8 "Suspension" means any withdrawal of one or more rights or privileges for a definite or indefinite period of time.
- 2.9 A Student may receive Suspension from the following:
- (a) a particular course or courses;
- (b) a department;
- (c) a Faculty/College/School;
- (d) the University; or
- (e) a Residence.
- 2.10 Students who have been suspended for a definite period of time shall, upon the lifting of the Suspension, have the rights or privileges that were suspended automatically reinstated, subject to any conditions attached to the Disciplinary Action proscribing future conduct.

2.11 Suspension for an indefinite period of time shall be dealt with as follows:

- (a) In the case of Suspension for an indefinite time by the Executive Director of Enrolment Services, the Suspension may be lifted by the Executive Director of Enrolment Services upon consideration at the written request of the Student, after consultation with the Unit Head(s) of the Unit(s) concerned.
- (b) In the case of Suspension for an indefinite period of time by a Disciplinary Authority other than the Executive Director of Enrolment Services, the Student may apply to the Disciplinary Authority that imposed the final penalty for a lifting of the Suspension. If the Suspension is lifted, the Student will have the rights or privileges that were suspended automatically reinstated, subject to any conditions attached to the Disciplinary Action proscribing future conduct.
- 2.12 Where a Student has received a Suspension pursuant to sections 2.9(c) or 2.9(d) of this Bylaw, any academic credits earned by the Student at the University or at any academic institution during the period of Suspension shall not be counted as credit toward any degree or program offered by the University, unless at the time of the imposition of the Suspension, the Disciplinary Authority stipulates otherwise.

2.13 Where the Student has received Suspension from a Faculty/College/School of the University, any other Faculty/College/School may refuse to register the Student for any course or courses or refuse to accept the Student into their programs, provided that prior to such refusal, the other Faculty/College/School has:

- (a) obtained and considered a written report from the Disciplinary Authority that implemented the Suspension, outlining the circumstances surrounding the Disciplinary Action;
- (b) provided the Student a copy of the report; and
- (c) given the Student an opportunity to respond to the report.

2.14 A Suspension will appear on the Student's academic history / transcript until such time as the Suspension period has elapsed, when it shall be removed upon the written request of the Student to the Registrar.

2.15 In the case of Suspension for supplying false or misleading information in connection with an application for admission (see sections 23 and 24 of Table 3), any notation on the Student's academic history / transcript may only be removed:

- (a) For undergraduate students, by the Registrar upon the written order of the Disciplinary Authority that implemented the Disciplinary Action.
- (b) For graduate students, by the Registrar in consultation with the Dean, Faculty of Graduate Studies, upon the written order of the Disciplinary Authority that implemented the Disciplinary Action.

Expulsions

2.16 "Expulsion" means a withdrawal of all rights or privileges available to Students for either a definite or indefinite period of time.

2.17 A Student may receive Expulsion from the following:

- (a) a Faculty/College/School;
- (b) the University; or
- (c) a Residence.

2.18 In the case of an Expulsion for a definite period of time, upon expiration of such time, in order to be readmitted, the Student must reapply for admission through normal channels to the appropriate authority having jurisdiction over admission.

2.19 In the case of an Expulsion for an indefinite period of time the Student may apply to the Disciplinary Authority that imposed the final penalty for a lifting of the Expulsion. If the Expulsion is lifted, the Student, in order to be readmitted, must reapply for admission through normal channels to the authority having jurisdiction over admission.

2.20 Where a Student has received an Expulsion pursuant to sections 2.17(a) or 2.17(b) of this Bylaw, any academic credits earned by the Student at the University or at any academic institution during the period of Expulsion shall not be counted as credit toward any degree or program offered by the University, unless at the time of the imposition of the Expulsion, the Disciplinary Authority stipulates otherwise.

2.21 Where the Student has received Expulsion from a Faculty/College/School of the University, any other Faculty/College/School may refuse to register the Student for any course or courses or refuse to accept the Student into their programs, provided that prior to such refusal,

the other Faculty/College/School has:

- (a) obtained and considered a written report from the Disciplinary Authority that implemented the Expulsion, outlining the circumstances surrounding the Disciplinary Action;
- (b) provided the Student a copy of the report; and
- (c) given the Student an opportunity to respond to the report.

2.22 An Expulsion shall appear on the Student's academic history / transcript and may only be removed by the Registrar upon the written order of the Disciplinary Authority that implemented the Disciplinary Action.

Appeals

2.23 Students have a right to appeal decisions made by a Disciplinary Authority, excluding the following decisions which are final:

- (a) Any decision of the UDC.
- (b) The discretionary decision of a Disciplinary Authority to lift a suspension or an expulsion under section 2.11 or section 2.19 of this Bylaw;
- (c) The decision of a Faculty/College/School to refuse a Student under section 2.21.

2.24 Appeals shall be conducted in accordance with the Appeal Procedure.

2.25 Subject to section 2.26 of this Bylaw, no Disciplinary Action shall be implemented and Students shall be permitted to continue in their courses or program until the time for appeal has elapsed or until the Student has waived in writing the right to appeal, whichever occurs first. The Disciplinary Authority must ensure that the Student's work continues to be graded normally and is unaffected until the appeal period has lapsed or the appeal process is complete.

2.26 Section 2.25 of this Bylaw does not apply in the following circumstances:

- (a) Where the Disciplinary Action would be entered on the academic history / transcript of the Student, the Registrar shall be notified by the Disciplinary Authority implementing such Disciplinary Action, and shall not issue any academic transcripts until the appeal period has elapsed or the appeal process is complete;
- (b) Where the Disciplinary Action relating to academic dishonesty or academic fraud may result in a change to the Student's transcript, the Registrar shall be notified by the Disciplinary Authority implementing such Disciplinary Action, and shall not issue any transcripts until the appeal period has elapsed or the appeal process is complete;
- (c) Where changes in the Student's courses and/or program are directly related to the matter under disciplinary consideration, such changes shall not be permitted; and
- (d) Where if the Disciplinary Action were not implemented, the safety of members of the University Community would be compromised.

Confidentiality

2.27 All matters relating to student discipline or appeal must be kept confidential in accordance with applicable University policies and procedures, and The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act.

Annual Reports

2.28 The Annual Report of the UDC will contain all the disciplinary matters that have occurred on campus from September 1 to the following August 31 of each Calendar year.

2.29 Academic Staff and department heads who have dealt with a disciplinary matter shall report to the Dean/Director of the Faculty/College/School to which each Student belongs, setting out the nature of the offence and particulars of the penalty and the Student's identification number if applicable. The Student's identification number is only used for administrative purposes to reduce the possibilities of errors in duplicate reporting and will not be included in the Annual Report.

2.30 Disciplinary Authorities, except members of the Academic Staff and department heads, shall report all disciplinary matters considered by or reported to them to the Chair of the UDC by October 1 of each year. The report shall contain the number of disciplinary matters referred to such person or body, the nature of the offences and particulars of the dispositions, and such further matters as may be required by the UDC.

2.31 The recording secretary of the UDC shall prepare and the Chair shall submit a report to the University President by December 1 in each year setting out both a summary of the reports submitted to the Chair of the UDC as well as particulars of the number, nature and disposition of cases appealed to the UDC.

2.32 Members of the University Community, shall be kept informed of the nature and disposition of cases dealt with under this Bylaw as the Annual Report shall be presented to the both the Senate and the Board of Governors annually. The names of Students disciplined shall not normally be made public.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Policy is required.

3.2 The President is responsible for the implementation, administration and review of this Policy.

3.3 Students, Faculty/College/School Councils, Unit Heads, Academic Staff and employees are responsible for complying with this Policy.

Part IV Secondary Documents

4.1 The President or Approving Body may approve Regulations, Policies and Procedures which are secondary to and comply with this Bylaw.

Part V Review

5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Bylaw is September 1, 2026.

5.2 In the interim, this Bylaw may be revised or repealed if:

- (a) The President or Approving Body deems it necessary or desirable to do so;
- (b) The Bylaw is no longer legislatively or statutorily compliant; and/or
- (c) The Bylaw is now in conflict with another Governing Document.

5.3 If this Bylaw is revised or rescinded, all Secondary Documents will be reviewed as soon as reasonably possible in order to ensure that they:

- (a) comply with the revised Bylaw; or
- (b) are, in turn, rescinded.

Part VI Effect on Previous Statements

6.1 This Bylaw supersedes:

- (a) Student Discipline Bylaw, dated January 1, 2009;
- (b) all previous Board/Senate Bylaws, Regulations, Rules, Policies and Procedures, and resolutions on the subject matter contained herein; and
- (c) the previous Faculty/College/School Council Bylaw, Regulations, Procedures, and resolutions on the subject matter contained herein.

This Policy and the Procedures that follow are available online at http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html.

Student Discipline Appeal Procedures

Part I Reason for Procedures

1.1 These Appeal Procedures are secondary to the Student Discipline Bylaw and are intended to establish a process for appeals to be heard, and to provide guidance to the members of appeal panels, to the student and to the Faculty/College/School representatives in relation to appeal hearings.

Part II Procedures Definitions

2.1 The following terms are defined for the purpose of this Bylaw and related Procedures:

- (a) "Academic Misconduct" has the same meaning as defined in section 2.5 of the Student Academic Misconduct Procedure.
- (b) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (c) "Appeal Body" means the appropriate persons or bodies as identified in sections 2.9 to 2.14.
- (d) "Appeal Procedure" means this Student Discipline – Appeal Procedure.
- (e) "Appellant" means the Student appealing a Disciplinary Action taken against him or her.
- (f) "Bylaw" means the Student Discipline Bylaw.
- (g) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (h) "Disciplinary Action" means the specific disciplinary actions available for each Disciplinary Authority under Table 3 of this Bylaw.
- (i) "Disciplinary Authority" means the discipline authority designated to determine a matter of student discipline for Academic Misconduct or Non-Academic Misconduct.
- (j) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (k) "Local Disciplinary Committee" or "LDC" means the standing or, from time to time, ad hoc committee appointed to hear and determine disciplinary matters under section 2.24 of this Appeal Procedure.
- (l) "Non-Academic Misconduct" has the same meaning as defined in section 2.5 of the Student Non-Academic Misconduct and Concerning Behaviour Procedure.
- (m) "Notice of Appeal" means the appeal documentation that must be filed by the Student under section 2.16.
- (n) "Respondent" means the Disciplinary Authority whose decision is being appealed.
- (o) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (p) "Sexual Assault" has the same meaning as defined under the Sexual Assault Policy.
- (q) "Student" means any of the following individuals:
- (i) Admitted – an individual who has accepted an offer of admission to the University;
- (ii) Current – an individual who is either registered in course(s) or in a program of studies at the University or is eligible to continue in their studies at the University either because the individual meets minimum academic performance requirements or will be eligible to continue after discharging a financial hold or serving suspension due to academic or discipline;
- (iii) Former – an individual who has graduated from the University or who has withdrawn (either voluntarily or was required to withdraw).
- (r) "Student Advocate" is a member of the University's Student Advocacy Office who provides students with information on their rights and responsibilities, as well as assistance with resolving problems or concerns resulting from actions or decisions taken by the University.
- (s) "Table 3" means Table 3: Disciplinary Actions and Disciplinary Authorities, which follows the Bylaw.
- (t) "Unit" means a Faculty, School, College, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or Vice-Provost. An academic department within a faculty or school is not a Unit as the term is used within this Procedure.
- (u) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents and Vice-Provosts with respect to their Units.
- (v) "University" means The University of Manitoba.
- (w) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, Students, volunteers, external parties, contractors and suppliers.

- (x) "UDC" means the University Discipline Committee composed under section 2.53 of this Appeal Procedure.

Appeals Generally

- 2.2 Students have a right to appeal Disciplinary Actions made by a Disciplinary Authority, subject to section 2.23 of the Bylaw.
- 2.3 Only the Student who has been the subject of a Disciplinary Action has the right to appeal.
- 2.4 An Appeal Body may dispose of the matter by instituting any Disciplinary Action authorized to it under Table 3. The resulting disposition may be the same, more severe or less severe than the original Disciplinary Action and the Appellant must be so informed of this possibility prior to the commencement of an appeal hearing.
- 2.5 When an appeal is heard by an Appeal Body, the Appellant must be invited to attend the hearing and, if in attendance, be permitted to ask questions and offer an explanation. Every reasonable attempt should be made to schedule the hearing at a time and place that permits the Appellant's participation.
- 2.6 If the Appellant, Respondent or their respective representatives are unable to attend the hearing in person, the use of a digital communication, such as audio or video conferencing, may be used with prior consent of the chair of the Appeal Body, provided that such means enable all parties to clearly communicate. A request for such a meeting must be made at least one week in advance of the hearing date.
- 2.7 Subject to sections 2.40 and 2.74 of this Appeal Procedure, the Appellant may appear in person and be represented by a Student Advocate, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, or a member of the Appellant's immediate family. It is the Appellant's sole responsibility to determine the adequacy of their representation.
- 2.8 Subject to sections 2.40, 2.45, 2.76, and 2.83 of this Appeal Procedure, a representative designated in writing by the Appellant may:
- (a) attend any disciplinary hearing; and
- (b) participate in any disciplinary hearing to the extent of asking questions of anyone in attendance and making submissions to any Appeal Body.

Appeal Routes

- 2.9 If the Appellant wishes to appeal the Disciplinary Action of a member of the Academic Staff (except for suspension from attendance for the balance of the meeting of one class), or the decision of a department head, the Notice of Appeal must be delivered to the appropriate Unit Head in the Unit offering course(s) and the Unit Head in the Unit in which the Appellant is registered, with a copy to the Academic Staff or department head, as the case may be.
- 2.10 If an Appellant is appealing within a Unit that does not have department heads, then the first level of decision will be the Unit Head of that respective Unit and the next level of appeal will be as set out in section 2.11 of this Procedure.
- 2.11 If the Appellant wishes to appeal the Disciplinary Action of a Unit Head, or the Director of Student Residences, the Notice of Appeal must be delivered to the appropriate Local Disciplinary Committee in care of the respective Unit Head or Director of Student Residence.
- 2.12 If the Appellant wishes to appeal the Disciplinary Action of the University Librarian (other than as a delegate of the President), a delegate of the University Librarian, or an ad hoc committee appointed by the University Librarian, the Notice of Appeal must be delivered to the Chair of the Senate Committee on Libraries, with a copy to the person or ad hoc committee which made the initial disciplinary decision. Within ten (10) working days of receipt of the Notice of Appeal, the Chair of the Senate Committee on Libraries will appoint a Library Appeals Committee to hear the appeal.
- 2.13 If the Appellant wishes to appeal the disciplinary decision of any of the following Disciplinary Authorities, the Notice of Appeal must be delivered to the UDC in care of the Secretary of the UDC (University Secretary):
- (a) the decision of an LDC or the Library Appeals Committee;
- (b) the decision of the Executive Director of Enrolment Services;
- (c) the decision of the Dean of the Faculty of Graduate Studies in relation to

fraudulent documents submitted for admission to the Faculty;
 (d) the decision of the Executive Director of Enrolment Services or the Associate Vice-President (Administration) or an ad hoc committee appointed by either of these persons;
 (e) the decision of the Chief Information Officer of Information Services and Technology (IST);
 (f) the decision of the Registrar;
 (g) the decision of the Vice-President (Administration);
 (h) the decision of the Vice-Provost (Students); or
 (i) the decision of the President or delegate.

2.14 If the disciplinary matter involved two or more Students and two or more Students appeal:

- (a) The Students must have separate hearings, but the members of the Appeal Body may be the same for each hearing, subject to sections 2.33 and 2.67 of this Procedure;
- (b) The Respondents may bring in relevant information on the other Student(s) as it pertains to each appeal; and
- (c) Every effort must be made to protect the identity of the other Student(s).

Filing an Appeal

2.15 The Appellant must deliver the Notice of Appeal to the appropriate Appeal Body within ten (10) working days as of the date on the letter notifying the Appellant of the Disciplinary Action from the lower body.

2.16 The Notice of Appeal must include:

- (a) such appeal application form, with current mailing address and telephone numbers, as may be required by the Appeal Body;
- (b) copies of such written materials as the Appellant wishes considered in connection with the appeal;
- (c) copies of the letter indicating the lower level decision, if not a first level appeal;
- (d) A letter clearly outlining the reason for the appeal and the remedy sought, including an indication of whether the Appellant is appealing the decision on:
 - (i) the finding of facts;
 - (ii) the Disciplinary Action imposed by the Disciplinary Authority; or
 - (iii) both the facts and the Disciplinary Action; and
- (e) the name and contact information of any representative that the Appellant wishes to have present at the appeal hearing, subject to subject to sections 2.7, 2.39 and 2.74 of this Appeal Procedure.
- (f) In the case of an appeal to the LDC or UDC, a listing of all resources or witnesses the Appellant wants in attendance at the hearing and their relevance. The scheduling of witnesses and resource people is the responsibility of the Appellant.

2.17 Subject to section 2.18, if an appeal is not received by the next level Appeal Body by the deadline set out in section 2.15, the Disciplinary Action against the Student will be implemented.

2.18 The time for delivery of a Notice of Appeal may be extended by the Appeal Body, or by the chair of the Appeal Body where the Appeal Body is the LDC or the UDC.

2.19 The Disciplinary Action implemented may be put on hold if the Appeal Body receiving the next level of appeal deems the lateness acceptable and grants the Appellant permission to proceed with the appeal after deadline.

2.20 The Appellant and the designated representative of the Appellant must receive the same notices of hearings held by the LDC and the UDC as the Respondents.

Responsibilities of Respondents

2.21 The Respondent will be given ten (10) working days to respond to the Notice of Appeal.

2.22 Respondents must submit the following:

- (a) A written response to the Appellant's Notice of Appeal;
- (b) All relevant documentation the Respondents will rely on as support for their position regarding the appeal; and
- (c) In the case of an appeal to the LDC or UDC, a listing of all resource people or witnesses they want in attendance at the hearing and their relevance. The scheduling of witnesses and resource people is the responsibility of the Respondent.
- (d) All the above documents must be filed within the time set out in section

2.21. If the Respondent had not received permission for an extension, a written request must be submitted to the Appeal Body to determine whether the Respondent's submission will be accepted.

2.23 If no response is received from the Respondent by the date requested by the office coordinating the appeal, a hearing may be set.

LOCAL DISCIPLINE COMMITTEE (LDC)

LDC Jurisdiction

2.24 Each Faculty/College/School, and the University Student Residences under the jurisdiction of the Office of Student Residences, must establish a standing or, from time to time, ad hoc committee to hear and determine disciplinary matters appealed to it by Students from a decision of the Dean/Director of that Faculty/College/School, or the Director of Student Residences for the University Residences under the Office of Student Residences' jurisdiction.

2.25 The LDC and the hearing panels thereof must exercise disciplinary authority on all Students that are appealing a decision from the Dean or Director of the Faculty/College/School or University Student Residence.

2.26 The Disciplinary Actions available to the LDC are set out in Table 3.

LDC Composition

2.27 In Faculties/Colleges/Schools, the LDC must be composed of an equal number of faculty members and students with a minimum of eight (8) members.

2.28 In the case of University Student Residences, the LDC must be composed of an equal number of residence staff and students with a minimum of eight (8) members. Members must be appointed by the Director of Student Residences with the advice of the appropriate Residence Students' Association.

2.29 The chair of the LDC must be elected by and from the membership of the LDC.

2.30 A quorum must be half the members, with a minimum of four (4) members, ensuring at least one (1) student and one (1) faculty member are present.

2.31 Where the Disciplinary Action relates to two (2) or more Faculties, Colleges or Schools, the LDC hearing panel must contain at least one (1) student and one (1) faculty member from each Faculty/College/School.

2.32 The chair must only vote in the case of a tie.

2.33 The Appellant, or the Appellant's representative, if any, and Respondent must have the right to challenge for cause any member of the LDC, the validity of the challenge to be judged by the remainder of the LDC. Such cause may include current teacher-student relationship, bias, or any factor likely to prejudice a fair hearing. Any person, who was directly involved in the original Disciplinary Action, either as a principal in the case or as a Disciplinary Authority, must be automatically removed from any hearing panel regarding the appeal.

LDC Hearing Procedures

2.34 The Appellant must be presumed innocent until the evidence presented indicates that, on the balance of probabilities Disciplinary Action is warranted. The LDC, in weighing the balance of probabilities, must consider the severity of the alleged incident.

2.35 The hearing must be by way of a trial de novo unless the appeal has been made only in relation to the severity of the Disciplinary Action imposed.

2.36 Hearings must be closed unless the Appellant requests in writing at least forty-eight (48) hours before the hearing that a hearing be open and there is no reasonable objection to an open hearing.

2.37 If the appeal hearing is in closed session, no observers may be present in the room. If the appeal hearing is in open session, any observers present will not be allowed to contribute in any way to the proceedings. Regardless of open or closed status, no electronic or other recording devices will be permitted.

2.38 Regardless of section 2.36, hearings related to discipline under the Respectful Work and Learning Environment Policy and/or discipline under the Sexual Assault Policy must be closed.

Representatives at LDC Hearing

2.39 At the LDC hearing, the Appellant may appear in person and be represented by a Student Advocate, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, or a member of the Student's immediate family. It is the Appellant's sole responsibility to determine the adequacy of their representation.

2.40 If the Appellant or the Respondent wishes to have a lawyer present, the lawyer(s) present may only be a non-participating observer(s) at hearings of the LDC, but may represent the Appellant or Respondent at hearings of the UDC.

Failure to Attend LDC Hearing

2.41 An Appellant who fails to attend a scheduled appeal hearing may have the appeal considered on the basis of the Appellant's written submission, the presentation of the Appellant's designated representative, if any, and the verbal and written submissions made by the Respondent.

2.42 The Appellant shall be advised that the LDC has made a decision regarding the appeal and that the Appellant has ten (10) days to provide reasons for missing the hearing prior to the implementation of the decision. The LDC Chair will determine whether the hearing should be re-scheduled based on any submission from the Appellant. A reasonable attempt will be made to reconvene the same members should the hearing be re-scheduled.

Evidence at LDC Hearing

2.43 The Appellant and the Appellant's designated representative, if any, and the Respondent or the Respondent's representative, will receive in writing, at least five (5) working days before the date set for the hearing, the names of the members of the LDC hearing panel who will hear the appeal and the information that has been submitted to the LDC hearing panel by both relevant parties, in accordance with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act.

2.44 The Appellant, or the Appellant's designated representative, if any, and the Respondent, or the Respondent's representative, if any, may call witnesses and submit other evidence. The Appellant, the Appellant's representative, if any, and the Respondent, or Respondent's representative, if any, are responsible for arranging their own witnesses. If witnesses are to be called, a witness list must be provided by the Appellant or the Appellant's representative, if any, in their original appeal package provided to the Chair and a witness list must be provided by the Respondent or the Respondent's representative, if any, with their response to the appeal.

2.45 The Appellant must not be required to testify, but if the Appellant elects to do so, then the Appellant may be cross-examined by the Respondent, or the Respondent's representative, if any.

2.46 The Appellant or the Appellant's designated representative, if any, and the Respondent, must have the right to cross-examine witnesses.

2.47 The LDC may consider confidential information from the University Health Service, Counselling Service, University Chaplains and other similar services which are submitted by these services to the LDC at the request of the Appellant. Such confidential information submitted to the LDC may only be used for the purpose of the appeal.

Adjournments of LDC Hearing

2.48 Requests for adjournment must be granted within reason.

Disposition of LDC Hearing

2.49 A decision to uphold or deny an appeal, in whole or in part, and a decision to take different Disciplinary Action, in whole or in part, requires a simple majority of LDC Committee members present and voting. The results of the hearing must be conveyed in writing, in a timely fashion, by the Chair of the LDC to the Appellant or the Appellant's designated representative, if any and to the Respondent or the Respondent's designated representative, as the case may be.

2.50 If, after hearing all the evidence, the LDC is satisfied on the evidence presented that the Appellant has committed Academic Misconduct or Non-Academic Misconduct, the LDC may dispose of the matter by instituting any Disciplinary Action set out in the column entitled "Deans, Directors or LDC" in Table 3.

UNIVERSITY DISCIPLINE COMMITTEE (UDC)

UDC Terms of Reference

2.51 The UDC must:

- (a) Report annually to the President.
- (b) Establish procedures, consistent with this Bylaw, for hearing panels.
- (c) Hear appeals, either as a committee of the whole or through a hearing panel, from decisions of Disciplinary Authorities.
- (d) Review the Bylaw and related procedures periodically and, if necessary, to recommend changes to them.

UDC Jurisdiction

2.52 The UDC and the hearing panels thereof shall exercise Disciplinary Authority on behalf of the Board of Governors on all Students that are appealing a decision from the Disciplinary Authorities that are set out in section 2.13 of this document.

UDC Composition

2.53 The UDC shall be composed of nineteen (19) members. The nineteen (19) shall include:

- (a) eight (8) faculty members nominated by the Senate Nominating Committee and appointed by the Board of Governors;
- (b) seven (7) students nominated by the Student Senate Caucus and appointed by the Board of Governors;
- (c) the President of the University of Manitoba (or designate), as an ex-officio member;
- (d) the President of the University of Manitoba Students' Union (or designate), as an ex-officio member;
- (e) the President of the University of Manitoba Graduate Students' Association (or designate), as an ex-officio member; and
- (f) the Chair appointed pursuant to section 2.57. The Chair must only vote in the event of a tie.

2.54 Positions for which no nomination had been received from the Student Senate Caucus by September 15th shall be nominated by the Senate Nominating Committee.

2.55 The terms of office shall be three (3) years for academic staff, and one (1) year for students, from June 1 to May 31 (academic staff), and October 14 to October 13 (students). A member whose term of office has expired in any year shall continue in office until a successor has been appointed and shall be eligible for reappointment.

2.56 A quorum must be nine (9) the members, where a minimum of one (1) student and one (1) academic are present.

2.57 A Chair will be appointed by the Board of Governors for a three (3) year term.

2.58 The Vice-Chair shall be elected from and by the members of the UDC for a three (3) year term.

UDC Hearing Panels

2.59 When a matter has been appealed to the UDC, the Chair must either convene the UDC or convene a hearing panel thereof to hear the appeal.

2.60 A quorum shall be a minimum of four (4) members, ensuring at least one (1) student and one (1) faculty member are present including the Chair.

2.61 The Chair may vote only if there is a tie.

2.62 UDC members who have a conflict of interest in a particular case, or have a temporary work conflict, or are otherwise unable to sit, may disqualify themselves from hearing an appeal.

2.63 Notwithstanding the foregoing, the Chair of the UDC may, in a particular case, require that a larger hearing panel be convened to consider the matter, provided that such a larger hearing panel maintains the proportional representation as set out in section 2.60.

2.64 The Chair of the UDC may use his/her discretion to reject an appeal if the appeal appears to be clearly outside the jurisdiction of the UDC, (for example, matters not dealing with discipline nor related Disciplinary Actions taken by a lower Appeal Body).

2.65 When an appeal is received based on a fine or the amount ordered, the only decision from which an appeal is taken is the amount levied by way of fine or the amount ordered to be paid by way of restitution; then, if such fine or restitution does not exceed \$500.00, the Chair may, at the Chair's

discretion, personally decide the matter, or may convene a hearing panel to hear the appeal.

2.66 A staff member from the Office of the University Secretary, will serve as recording secretary for the hearings.

2.67 The Appellant, or the Appellant's representative, if any, and the Respondent must have the right to challenge for cause any member of the UDC hearing panel, the validity of the challenge to be judged by the remainder of the UDC hearing panel if such a challenge is made at this time. Such cause may include current teacher-student relationship, bias, or any other factor likely to prejudice a fair hearing. Any person who was directly involved in the original Disciplinary Action, either as a principal in the case or as a Disciplinary Authority, must be automatically removed from any hearing panel regarding the appeal. The Office of the University Secretary after consultation with the Chair will make every reasonable attempt to address any concerns made prior to the hearing date regarding bias by either the Appellant or the Respondent.

UDC Hearing Procedures

2.68 The Appellant must be presumed innocent until the evidence presented indicates that, on the balance of probabilities Disciplinary Action is warranted. The UDC, in weighing the balance of probabilities, must consider the severity of the alleged incident.

2.69 The hearing before the UDC hearing panel must be by way of a trial de novo unless the appeal has been made only in relation to the severity of the Disciplinary Action imposed.

2.70 After an appeal hearing has commenced, the appeal may be withdrawn by the Appellant only with leave of the UDC hearing panel.

2.71 Hearings must be closed unless the Appellant requests in writing at least forty-eight (48) hours before the hearing that a hearing be open and there is no reasonable objection to an open hearing.

2.72 If the appeal hearing is in closed session, no observers may be present in the room. If the appeal hearing is in open session, any observers present will not be allowed to contribute in any way to the proceedings. Regardless of open or closed status, no electronic or other recording devices will be permitted.

2.73 Regardless of section 2.71, hearings related to discipline under the Respectful Work and Learning Environment Policy and/or discipline relating to Sexual Assault must be closed.

Representatives at UDC Hearing

2.74 At the UDC hearing, the Appellant may appear in person and may be represented by a Student Advocate, a representative from the University of Manitoba Student's Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, a member of the Appellant's immediate family, or a lawyer. It is the Appellant's sole responsibility to determine the adequacy of their representation.

2.75 At the UDC hearing, the Respondent may be represented by a lawyer from the University of Manitoba's Office of Legal Counsel.

2.76 If any party intends to have a lawyer present at the hearing, that party must notify the Chair of the UDC at least seven (7) working days prior to the hearing. In that event, the UDC hearing panel may also retain the services of legal counsel. A rescheduling of the hearing may be required for all parties to retain legal counsel.

2.77 Subject to the notice provision in section 2.76, a representative designated in writing by any party may:

- (a) attend the disciplinary hearing; and
- (b) participate in any disciplinary hearing to the extent of asking questions of anyone in attendance and making submissions to the UDC.

2.78 The Appellant and the Appellant's designated representative, if any, and the Respondent and the Respondent's representative, if any, shall be entitled to receive in writing, at least five (5) working days before the date set for the hearing, the information that has been submitted to the previous Appeal Body by the parties in accordance with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act.

Failure to Attend UDC Hearing

2.79 An Appellant who fails to attend a scheduled appeal hearing may have the appeal considered on the basis of the Appellant's written submission, the presentation of the Appellant's designated representative, if any, and the verbal and written submissions made by the Respondent.

2.80 The Appellant must be advised that the UDC has made a decision regarding the appeal and that the Appellant has ten (10) days to provide reasons for missing the hearing prior to the implementation of the decision. The Chair must determine whether the hearing should be re-scheduled based on any submission from the Appellant. A reasonable attempt will be made to reconvene the same members should the hearing be re-scheduled.

Evidence at UDC Hearing

2.81 The Appellant, or the Appellant's representative, if any, and the relevant Respondent, or the Respondent's representative, if any, may call witnesses and submit other evidence. The Appellant, or the Appellant's representative, if any, and the relevant Respondent, or the Respondent's representative, if any, are responsible for arranging their own witnesses. If witnesses are to be called, a witness list must be provided by the Appellant or the Appellant's representative, if any, in their original appeal submission provided to the Chair and a witness list must be provided by the relevant Respondent, or the Respondent's representative, if any, with their response to the appeal.

2.82 The Appellant or the Appellant's designated representative, if any, and the Respondent, or the Respondent's representative, if any, must have the right to cross-examine witnesses.

2.83 The Appellant must not be required to give testimony but if the Appellant elects to do so, the Appellant may be cross-examined.

2.84 The UDC may consider confidential information from the University Health Service, Counselling Service, University Chaplains and other similar services which are submitted by these services to the UDC at the request of the Appellant. Such confidential information submitted to the UDC may only be used for the purpose of the appeal and will be treated as other documentation submitted for the appeal hearing as set out in section 2.87.

2.85 Where the Appellant appeals the disposition of a finding under the Respectful Work and Learning Environment Policy or under the Sexual Assault Policy, and upon the written request of the Chair of the UDC, the Vice-President (Administration) shall forward to the UDC the report of the investigator for consideration in the disposition of the appeal. Such confidential information submitted to the UDC may only be used for the purpose of the appeal and will be treated as other documentation submitted for the appeal hearing as set out in section 2.87.

2.86 Subject to section 2.78, the Appellant, the Appellant's representative and the relevant Disciplinary Authority normally must have the right to receive a copy of any university document that the UDC or hearing panel considers in relation to the appeal. The Chair of the Committee must make the final determination on this matter.

2.87 All members of the UDC and/or hearing panel will keep all materials and information used for the appeal in strict confidence and surrender such materials to the recording secretary who will have the materials destroyed by way of confidential shredding.

Adjournments

2.88 Requests for adjournment shall be granted within reason.

Disposition

2.89 A decision to uphold or deny an appeal, in whole or in part, and a decision to take different Disciplinary Action, in whole or in part, requires a simple majority.

2.90 If, after hearing all the evidence, the UDC is satisfied on the evidence presented that the Appellant has committed Academic Misconduct or Non-Academic Misconduct, the UDC may dispose of the matter by instituting any Disciplinary Action set out in the column entitled "UDC" in Table 3.

2.91 The Chair of the UDC or hearing panel must, after a decision has been made, report the results of that decision in writing to:

- (a) the Appellant or the designated representative of the Appellant, if any;
- (b) the Respondent, or the Respondent's representative, if any, from whose decision the appeal has been heard;

- (c) the Dean/Director of the Faculty/College/School involved; or the Associate Vice-President (Administration), the Director of Student Residences, or the Chief Information Officer (CIO) of IST, as the case may be;
- (d) the Registrar;
- (e) the Vice-President (Administration);
- (f) the Vice-Provost (Students); or
- (g) any others as deemed relevant.

Part III Accountability

- 3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Appeal Procedure is required.
- 3.2 The President or his or her delegate is responsible for the implementation, administration and review of this Appeal Procedure.
- 3.3 Students, Faculty/College/School Councils, Unit Heads, Academic Staff and employees are responsible for complying with this Appeal Procedure.

Part IV Review

- 4.1 Governing Document reviews must be conducted every ten (10) years. The next scheduled review date for this Appeal Procedure is September 1, 2026.
- 4.2 In the interim, this Appeal Procedure may be revised or repealed if:
 - (a) the Approving Body deems it necessary or desirable to do so;
 - (b) the Appeal Procedure is no longer legislatively or statutorily compliant;
 - (c) the Appeal Procedure is now in conflict with another Governing Document; and/or
 - (d) the Parent Policy is revised or repealed.

Part V Effect on Previous Statements

- 5.1 This Appeal Procedure supersedes all of the following:
 - (a) Student Discipline Procedure, effective January 1, 2009, revised January 26, 2010.
 - (b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
 - (c) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

- 6.1 This Appeal Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:
 - (a) Student Discipline Bylaw;
 - (b) Table 1: Jurisdiction of Disciplinary Authorities for Academic Misconduct;
 - (c) Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct;
 - (d) Table 3: Disciplinary Actions and Disciplinary Authorities;
 - (e) Student Academic Misconduct Procedure;
 - (f) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
 - (g) Definitions of Academic Units Policy;
 - (h) Final Examinations and Final Grades Policy and Procedures;
 - (i) Respectful Work and Learning Environment Policy;
 - (j) Sexual Assault Policy;
 - (k) RWLE and Sexual Assault Procedure;
 - (l) Use of Computer Facilities Policy and Procedure;
 - (m) Violent or Threatening Behaviour Policy and Procedure;
 - (n) The Freedom of Information and Protection of Privacy Act, C.C.S.M. c. F175;
 - (o) The Personal Health Information Act, C.C.S.M. c. P33.5.

Student Academic Misconduct Procedures

Part I Reason for Procedure

1.1 The University of Manitoba emphasizes the importance of academic integrity and works diligently to uphold a rigorous and ethical academic environment.

1.2 The reason for this Procedure is to:

- (a) Articulate the University's expectation that all Students maintain the highest standards of integrity;
- (b) Outline the jurisdiction for each Disciplinary Authority dealing with the Academic Misconduct of Students; and
- (c) Provide a fair and thorough investigation process into allegations of Academic Misconduct.

Part II Procedure Content Definitions

2.1 The following terms are defined for the purpose of this Procedure:

- (a) "Academic Misconduct" has the same meaning as defined in section 2.5 of this Procedure.
- (b) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (c) "Appeal Procedure" means the Student Discipline – Appeal Procedure.
- (d) "Bylaw" means the Student Discipline Bylaw.
- (e) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (f) "Disciplinary Action" means the specific disciplinary actions available for each Disciplinary Authority under Table 3.
- (g) "Disciplinary Authority" means the disciplinary authority designated to determine a matter of student discipline for Academic Misconduct under Table 1.
- (h) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (i) "Procedure" means this Student Academic Misconduct Procedure.
- (j) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (k) "Student" means any of the following individuals:
 - (i) Admitted – an individual who has accepted an offer of admission to the University;
 - (ii) Current – an individual who is either registered in course(s) or in a program of studies at the University or is eligible to continue in their studies at the University either because the individual meets minimum academic performance requirements or will be eligible to continue after discharging a financial hold or serving suspension;
 - (iii) Former – an individual who has graduated from the University or who has withdrawn (either voluntarily or was required to withdraw).
- (l) "Student Advocate" is a member of the University's Student Advocacy Office who provides Students with information on their rights and responsibilities, as well as assistance with resolving problems or concerns resulting from actions or decisions taken by the University.
- (m) "Table 1" refers to Table 1: Jurisdiction of Disciplinary Authorities for Academic Misconduct, which follows the Bylaw.
- (n) "Table 3" refers to Table 3: Disciplinary Actions and Disciplinary Authorities, which follows the Bylaw.
- (o) "Unit" means a Faculty, School, College, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or Vice-Provost. An academic department within a Faculty/College/School is not a Unit as the term is used within this Procedure.
- (p) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents and Vice-Provosts with respect to their Units.
- (q) "University" refers to the University of Manitoba.
- (r) "University Community" means all Board of Governors members, Senate

members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, Students, volunteers, external parties, contractors and suppliers.

(s) "UMSS" means the University of Manitoba Security Services.

Scope

2.2 This Procedure applies to Student's academic conduct in relation to any University Matter.

2.3 "University Matter" means any activity, event, or undertaking in which a member of the University Community participates which has a substantial connection to the University, such as:

(a) University-related activities or events, including but not limited to:

(i) Any activity or event on property owned or controlled by the University;

(ii) The leasing of space, including student residence rooms, on property owned or controlled by the University;

(iii) The offering of any service by the University, including educational services;

(iv) Student placements, practica, or clinical training;

(v) University research activities, whether on or off campus;

(vi) Student and/or employee exchanges arranged in connection with the University;

(vii) Social events or networking, where matters regarding the University or members of the University Community are a significant focus of the activity;

(viii) University field trips, travel-study tours, service-learning activities, and similar activities;

(b) Activities or events involving members of the University Community, where the actions of those members of the University Community may reasonably reflect upon or affect the University, including but not limited to:

(i) Any aspect of the employment or engagement of employees and contractors for roles and projects substantially connected to the University;

(ii) Participation on a committee or board as a representative of the University;

(iii) Writings, photographs, artwork, audio or video recordings, and/or electronic communications, including communications through social media, where matters regarding the University or members of the University Community are a significant focus of the communication;

(iv) Matters related to The University of Manitoba Students' Union, the Graduate Students' Association, and their affiliated student groups to the extent that it affects the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments; or

(v) Matters of off-campus conduct that have, or might reasonably be seen to have an adverse effect on the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments.

Academic Misconduct

2.4 As members of the University Community, Students have an obligation to act with academic integrity. Any Student who engages in Academic Misconduct in relation to a University Matter will be subject to discipline.

2.5 "Academic Misconduct" means any conduct that has, or might reasonably be seen to have, an adverse effect on the academic integrity of the University, including but not limited to:

(a) Plagiarism – the presentation or use of information, ideas, sentences, findings, etc. as one's own without appropriate attribution in an assignment, test or final examination.

(b) Cheating on Quizzes, Tests or Final Examinations – the circumventing of fair testing procedures or contravention of exam regulations. Such acts may be premeditated/planned or may be unintentional or opportunistic.

(c) Inappropriate collaboration – when a Student and any other person work together on assignments, projects, tests, labs or other work unless authorized by the course instructor.

(d) Duplicate Submission – cheating where a Student submits a paper/assignment/test in full or in part, for more than one course without the permission of the course instructor.

(e) Personation – writing an assignment, lab, test, or examination for another Student, or the unauthorized use of another person's signature or

identification in order to impersonate someone else. Personation includes both the personator and the person initiating the personation.

(f) Academic Fraud – falsification of data or official documents as well as the falsification of medical or compassionate circumstances/documentation to gain accommodations to complete assignments, tests or examinations.

2.6 Students will be subject to Disciplinary Action for any instance of Academic Misconduct, regardless of whether such behaviour is covered by other University policies, procedures or bylaws. Matters relating to certain Academic Misconduct may also be subject to additional policies, such as the Responsible Conduct of Research Policy and related procedures.

Jurisdiction of Disciplinary Authority

2.7 The specific jurisdiction of each Disciplinary Authority designated to determine an allegation of Academic Misconduct is set out in Table 1.

2.8 For matters involving the Academic Misconduct of an undergraduate Student, the Disciplinary Authority with the closest connection to the particular alleged Academic Misconduct has jurisdiction over the matter, subject to section 2.10 of this Procedure. However, the Disciplinary Authority must inform the Unit Head of the Student's home Faculty/College/School prior to any investigation.

2.9 Matters involving Academic Misconduct of a graduate Student must be referred directly to the Dean of the Faculty of Graduate Studies who shall, in turn, inform the department head or Unit Head of the Student's home department or Unit prior to any investigation and Disciplinary Action.

2.10 When the alleged Academic Misconduct, if proven on a balance of probabilities, would:

(a) Constitute a second instance of Academic Misconduct by the Student; or

(b) Be of such severity as to warrant a Disciplinary Action that is not available to the Disciplinary Authority with the closest connection to the matter under Table 1 (e.g. Department Head);

the matter shall be referred to the next appropriate Disciplinary Authority under Table 1 (e.g. Dean/Director) for investigation and decision.

2.11 If a question arises as to which Disciplinary Authority should hear a particular case, the question must be referred to the President for resolution.

2.12 If the Academic Misconduct relates to a criminal offence, the Disciplinary Authority must provide relevant information to UMSS for potential follow-up by the appropriate policing authority.

Notice to the Student

2.13 If the Disciplinary Authority determines that there is sufficient evidence to initiate an investigation into the allegation of Academic Misconduct under this Student Academic Misconduct Procedure, the Student who is the subject of a disciplinary matter will be informed in writing by the Disciplinary Authority (with a copy to the University's Registrar) that:

(a) An investigation is proceeding in accordance with this Procedure, the nature of the matter being investigated, that the Student may be subject to Disciplinary Action and that a hold will be placed on the Student's record in accordance with section 2.14 of this Procedure until the allegation is investigated;

(b) The Student will be given an opportunity to respond to the allegation and, if a meeting is scheduled, notice will be provided as to who will be present on behalf of the University at the meeting;

(c) The Student may seek advice and representation from a Student Advocate, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, a member of the Student's immediate family or other support person as may be appropriate. It is the sole responsibility of the Student to determine the adequacy of the Student's representation;

(d) Failure to respond by a specified date will result in the matter being considered without the Student's response;

(e) The Student may obtain a copy of this Procedure, the Bylaw and related procedures. These documents are available online or from the Office of the University Secretary or the Student Advocacy office;

(f) The Student has a right to appeal in accordance with the Bylaw and Appeal Procedure.

Student Records

2.14 The Disciplinary Authority will request that the Registrar place a hold on the Student's record to prevent the issuance of transcripts, transfers between Faculty/College/School and changes in registrations until the alleged Academic Misconduct is investigated. Until a decision has been made and any appeal process available under the Bylaw has concluded, the Student shall be permitted to continue in the course or program until the case is heard and the Disciplinary Authority must ensure the Student's work continues to be graded normally and is unaffected by the allegation of Academic Misconduct, subject to sections 2.25 and 2.26 of the Bylaw.

Investigation Procedure

2.15 Subject to section 2.16 of this Procedure, the Disciplinary Authority will, either personally or through a designate, conduct an investigation into the allegations of Academic Misconduct in any manner that he or she deems appropriate to the nature of the circumstances and the seriousness of the issues involved and any admissions made during the investigation. This may include some or all of:

- (a) Interviewing witnesses;
- (b) Reviewing documents and records (both paper and electronic);
- (c) Reviewing photographs, audio, and video recordings;
- (d) Examining physical evidence;
- (e) Arranging for testing of physical evidence;
- (f) With the consent of participants, arranging for medical or psychological evaluations; and/or
- (g) Submitting a Third Party Data Access Request Form to IST regarding accessing electronic systems and consulting with Access and Privacy Office as required to facilitate the request.

2.16 The Disciplinary Authority may choose not to personally investigate where the issue has been or may be investigated pursuant to another University policy, procedure or bylaw.

2.17 The Disciplinary Authority will conduct the investigation in accordance with the principles of procedural fairness and natural justice. In particular, the Disciplinary Authority will ensure that:

- (a) The Student must be informed of the allegations against him or her, including, subject to section 2.26 of this Procedure, having access to all documentary and other evidence relied upon by the Disciplinary Authority and knowing the identity of the complainant;
- (b) The Student must be provided an opportunity to respond to the allegations;
- (c) While strict rules of evidence do not apply, appropriate weight must be given to evidence based on its credibility and reliability; and
- (d) Witnesses may wish to consult with or respond through an advocate (which may include legal counsel, a union representative, or a Student Advocate, as may be appropriate).

2.18 The Disciplinary Authority (or designate) may meet with the Student to present the facts/evidence concerning the allegation and to give the Student an opportunity to respond to the allegation and present his/her explanation of the matter. The Disciplinary Authority will give notice to the Student as to who will be present on behalf of the University at such a meeting.

Decision

2.19 The Disciplinary Authority will inform the Student that a written decision letter will be sent normally within five (5) working days of receiving the Student's response. If the Student does not respond within a reasonable time, the Disciplinary Authority will consider the matter and make a decision in the absence of the Student's response and based on the information that is available.

2.20 At the conclusion of the investigation, the Disciplinary Authority will inform the Student of his or her decision in writing and will include, at minimum, the following:

- (a) A summary of the allegation of Academic Misconduct;
- (b) A summary of the process and key timelines in the investigation;
- (c) A summary of the key evidence obtained through the investigation, including the response of the Student to the allegation;
- (d) An indication of which key evidence was considered credible and

reliable;

(e) A conclusion as to whether, on a balance of probabilities, the Academic Misconduct occurred;

(f) A summary of the reasons for the conclusion;

(g) A summary of any Disciplinary Action instituted in accordance with the Bylaw and section 2.21 of this Procedure; and

(h) If Disciplinary Action is taken, information about the right to appeal, the time period for appeal, and the person and contact information for the submission of an appeal, in accordance with the Bylaw.

2.21 Where there is a finding of Academic Misconduct, the Disciplinary Authority will consider any previous findings of Academic Misconduct before determining the appropriate Disciplinary Action under the Bylaw. In the case where the Disciplinary Authority is not the Unit Head of the Faculty/College/School in which the Student is registered, the Disciplinary Authority will determine the appropriate Disciplinary Action in consultation with the Unit Head of that Faculty/College/School.

2.22 The Disciplinary Authority will send a copy of their decision to the Registrar and to the Unit Head of the Faculty/College/School in which the Student is registered.

Appeals

2.23 Students have a right to appeal Disciplinary Actions in accordance with the Bylaw and Appeal Procedure.

Obligations of Confidentiality by the University

2.24 In respect of an incidence of Academic Misconduct, the University will not disclose the name of the complainant, the Student, or the circumstances related to the complaint to any person, other than where the disclosure is:

- (a) Necessary to investigate the complaint or take corrective action with respect to the complaint; or
- (b) Required by law.

2.25 Personal information that is disclosed under section 2.24 above in respect of an incidence of Academic Misconduct will be the minimum amount necessary for the purpose.

Obligations of Confidentiality by the Disciplinary Authority

2.26 The Disciplinary Authority, in conducting the investigation, will comply with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act with respect to personal information and personal health information collected, used and disclosed in the course of the investigation. Where a Disciplinary Authority is unsure of whether they may disclose particular information, they may seek advice from the Access and Privacy Office.

2.27 The Disciplinary Authority will advise all persons involved with an investigation as to their obligations regarding confidentiality, and the protections available to them under this Procedure.

Obligations of Confidentiality by the Others

2.28 All persons involved in an investigation of an incident of Non-Academic Misconduct or Concerning Behaviour, whether as a witness or retrieving relevant information or documents, must keep confidential:

- (a) The existence and nature of the investigation; and
- (b) Any information or documentation obtained as a result of the investigation;

which information may only be disclosed to those who reasonably need to know. Where an individual is unsure of whether they may disclose particular information, they may seek advice from the Access and Privacy Office.

2.29 Notwithstanding section 2.28, the Complainant, the Respondent, and witnesses involved in the investigation may:

- (a) Obtain confidential advice (including advice from a Student Advocate or lawyer, as may be appropriate);
- (b) Disclose information to others only to the extent reasonably necessary to gather evidence and, in the case of an accused Student, to make full answer and defense to the allegations; and

(c) Use information obtained independent of the investigation in any other forum.

Records Management

2.30 The Disciplinary Authority will maintain files with respect to each complaint in accordance with the Records Management Policy and Procedure.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Procedure is required.

3.2 The President is responsible for the implementation, administration and review of this Procedure.

3.3 Students, Faculty/College/School Councils, Unit Heads, Academic Staff and employees are responsible for complying with this Procedure.

Part IV Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Procedure is September 1, 2026.

4.2 In the interim, this Procedure may be revised or repealed if:

- (a) the President or the Approving Body deems it necessary or desirable to do so;
- (b) the Procedure is no longer legislatively or statutorily compliant;
- (c) the Procedure is now in conflict with another Governing Document; and/or
- (d) the Parent Policy is revised or repealed.

Part V Effect on Previous Statements

5.1 This Procedure supersedes all of the following:

- (a) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (b) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Student Discipline Bylaw;
- (b) Table 1: Jurisdiction of Disciplinary Authorities for Academic Misconduct;
- (c) Table 3: Disciplinary Actions and Disciplinary Authorities;
- (d) Student Discipline - Appeal Procedure;
- (e) Definitions of Academic Units Policy;
- (f) Responsible Conduct of Research Policy and Procedures;
- (g) Records Management Policy and Procedure;
- (h) Use of Computer Facilities Policy and Procedure;
- (i) Third Party Data Access Request Form;
- (j) Student Advocacy Office Policy;
- (k) The Freedom of Information and Protection of Privacy Act, CCSM c. F175;
- (l) The Personal Health Information Act, CCSM c. P33.5.

Student Non-Academic Misconduct and Concerning Behaviour Procedures

Part I Reason for Procedure

1.1 The reason for this Procedure is to:

- (a) Articulate the University's expectation that all Students act in a fair and reasonable manner toward their peers, the faculty, staff, administration and the physical property of the University;
- (b) Outline the jurisdiction for each Disciplinary Authority dealing with the

Non-Academic Misconduct of Students;

(c) Provide a fair and thorough investigation process for allegations of Non-Academic Misconduct;

(d) Coordinate an action plan for Students exhibiting Concerning Behaviour that includes supports and a clear referral mechanism for members of the University Community.

Part II Procedure Content Definitions

2.1 The following terms are defined for the purpose of this Procedure:

- (a) "Academic Staff" refers to all individuals whose primary assignment is instruction, research, and/or service/academic administration. This includes employees who hold an academic rank such as professor, associate professor, assistant professor, instructor, lecturer, librarian, or the equivalent of any of those academic ranks. The category also includes a dean, director, associate dean, assistant dean, chair or head of department, visiting scholars, senior scholars, and those holding unpaid academic appointments, insofar as they perform instructional, research, and/or service/academic administrative duties.
- (b) "Appeal Procedure" means the Student Discipline – Appeal Procedure.
- (c) "Bylaw" means the Student Discipline Bylaw.
- (d) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (e) "Disciplinary Action" means the specific disciplinary actions available for each Disciplinary Authority under Table 3.
- (f) "Disciplinary Authority" means the discipline authority designated to determine a matter of student discipline for Non-Academic Misconduct under Table 2.
- (g) "Discrimination" has the same meaning as defined in section 2.3 of the RWLE and Sexual Assault Procedure.
- (h) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (i) "Harassment" refers to Personal Harassment, Human Rights Based Harassment, and/or Sexual Harassment as defined in section 2.10 of the RWLE and Sexual Assault Procedure.
- (j) "Non-Academic Misconduct" has the same meaning as defined in section 2.5 of this Procedure.
- (k) "Procedure" means this Student Non-Academic Misconduct and Concerning Behaviour Procedure.
- (l) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (m) "Sexual Assault" has the same meaning as defined in section 2.1 of the Sexual Assault Policy.
- (n) "STATIS" means the Student/Staff Threat Assessment Triage Intervention Support team established pursuant to section 2.11 of the Violent or Threatening Behaviour Procedure.
- (o) "Student" means any of the following individuals:
 - (i) Admitted – an individual who has accepted an offer of admission to the University;
 - (ii) Current – an individual who is either registered in course(s) or in a program of studies at the University or is eligible to continue in their studies at the University either because the individual meets minimum academic performance requirements or will be eligible to continue after discharging a financial hold or serving suspension;
 - (iii) Former – an individual who has graduated from the University or who has withdrawn (either voluntarily or was required to withdraw).
- (p) "Student Advocate" is a member of the University's Student Advocacy Office who provides Students with information on their rights and responsibilities, as well as assistance with resolving problems or concerns resulting from actions or decisions taken by the University.
- (q) "Table 2" refers to Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct, which follows the Bylaw.
- (r) "Table 3" refers to Table 3: Disciplinary Actions and Disciplinary Authorities, which follows the Bylaw.
- (s) "UMSS" means the University of Manitoba's Security Services.
- (t) "Unit" means a Faculty, School, College, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or

Vice-Provost. An academic department within a Faculty/College/School is not a Unit as the term is used within this Procedure.

(u) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents and Vice-Provosts with respect to their Units.

(v) "University" refers to the University of Manitoba.

(w) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, Students, volunteers, external parties, contractors and suppliers.

(x) "University Matter" has the same meaning as defined in section 2.3 of this Procedure.

(y) "Violence" means:

- (i) The attempted or actual exercise of physical force against a person; or
- (ii) Any threatening statement or behaviour that gives a person reasonable cause to believe that physical force will be used against the person.

SCOPE

2.2 This Procedure applies to a Student's non-academic conduct in relation to any University Matter.

2.3 "University Matter" means any activity, event, or undertaking in which a member of the University Community participates which has a substantial connection to the University, such as:

(a) University-related activities or events, including but not limited to:

- (i) Any activity or event on property owned or controlled by the University;
- (ii) The leasing of space, including student residence rooms, on property owned or controlled by the University;
- (iii) The offering of any service by the University, including educational services;

(iv) Student placements, practica, or clinical training;

(v) University research activities, whether on or off campus;

(vi) Student and/or employee exchanges arranged in connection with the University;

(vii) Social events or networking, where matters regarding the University or members of the University Community are a significant focus of the activity;

(viii) University field trips, travel-study tours, service-learning activities, and similar activities;

(b) Activities or events involving members of the University Community, where the actions of those members of the University Community may reasonably reflect upon or affect the University, including but not limited to:

(i) Any aspect of the employment or engagement of employees and contractors for roles and projects substantially connected to the University;

(ii) Participation on a committee or board as a representative of the University;

(iii) Writings, photographs, artwork, audio or video recordings, and/or electronic communications, including communications through social media, where matters regarding the University or members of the University Community are a significant focus of the communication;

(iv) Matters related to The University of Manitoba Students' Union, the Graduate Students' Association, and their affiliated student groups to the extent that it affects the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments; or

(v) Matters of off-campus conduct that have, or might reasonably be seen to have an adverse effect on the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments.

NON-ACADEMIC MISCONDUCT

2.4 Any Student who engages in Non-Academic Misconduct in relation to a University Matter will be subject to discipline.

2.5 "Non-Academic Misconduct" means any conduct that has, or might reasonably be seen to have, an adverse effect on the integrity or proper functioning of the University or the health, safety, rights or property of the University or members of the University Community, such as:

- (a) Threats of harm or actual harm by any means (including electronic

means) to another person, including but not limited to:

(i) Discrimination;

(ii) Hazing;

(iii) Harassment;

(iv) Possession or use of dangerous objects, in violation of any applicable law;

(v) Sexual Assault;

(vi) Stalking behaviour, including repetitive behaviour directed at a specific person which reasonably causes that person alarm, distress, fear or a change of normal behavior;

(vii) Violence;

(b) Property-related misconduct, including but not limited to:

(i) Theft;

(ii) Threats to or damage of University property;

(iii) Vandalism;

(c) Inappropriate or disruptive behavior, including but not limited to:

(i) Actions which habitually interfere with the learning environment or requires the inordinate time and attention of faculty and staff;

(ii) Alcohol or substance abuse;

(iii) Disorderly behaviour;

(iv) Indecent exposure;

(v) Unprofessional conduct;

(d) Abuse of the process of University policies, procedures or regulations, including but not limited to:

(i) Abuse of computer privileges;

(ii) Breach of student residence rules or regulations;

(iii) Failure to comply with a previously imposed Disciplinary Action;

(iv) Frivolous or vexatious complaints or appeals.

2.6 Students will be subject to Disciplinary Action for any instance of Non-Academic Misconduct, regardless of whether such behaviour is covered by other University policies, procedures or bylaws. Matters relating to certain Non-Academic Misconduct may also be subject to additional policies, such as:

(a) The Respectful Work and Learning Environment Policy and the RWLE and Sexual Assault Procedure when the matter relates to Discrimination, or Harassment;

(b) The Sexual Assault Policy and the RWLE and Sexual Assault Procedure when the matter relates to Sexual Assault;

(c) The Violent or Threatening Behaviour Policy and Procedure when the matter relates to Violence, hazing, stalking behaviour, or the possession or use of dangerous objects in violation of any applicable law;

(d) The Use of Computer Facilities Policy and Procedure when the matter relates to abuse of computer privileges;

(e) The Campus Alcohol Policy and Procedure when the matter relates to alcohol or substance abuse;

(f) The student Residence Contract when the matter relates to a breach of student residence rules or regulations.

Jurisdiction of Disciplinary Authority

2.7 The specific jurisdiction of each Disciplinary Authority designated to determine an allegation of Non-Academic Misconduct is set out in Table 2.

2.8 For matters involving the Non-Academic Misconduct of an undergraduate Student, the Disciplinary Authority with the closest connection to the particular alleged Non-Academic Misconduct has jurisdiction over the matter, subject to section 2.10 of this Procedure. However, the Disciplinary Authority must inform the Unit Head of the Student's home Faculty/College/School, and the Vice-Provost (Students), prior to any investigation.

2.9 Matters involving Non-Academic Misconduct of a graduate Student must be referred directly to the Dean of the Faculty of Graduate Studies who shall, in turn, inform the department head of the Student's program, and the Vice-Provost (Students), prior to any investigation.

2.10 When the alleged Non-Academic Misconduct, if proven on a balance of probabilities, would:

(a) Constitute a second instance of Non-Academic Misconduct by the Student; or

(b) Be of such severity as to warrant a Disciplinary Action that is not available to the Disciplinary Authority with the closest connection to the matter under Table 2 (e.g. Department Head);

the matter shall be referred to the next appropriate Disciplinary Authority under Table 2 (e.g. Dean/Director) for investigation and decision.

2.11 If a question arises as to which Disciplinary Authority should hear a particular case, the question must be referred to the President for resolution.

2.12 If the Non-Academic Misconduct relates to a criminal offence, the Disciplinary Authority must provide relevant information to UMSS for potential follow-up by the appropriate policing authority.

Notice to Vice-Provost (Students)

2.13 Before initiating an investigation, the Disciplinary Authority will advise the Vice-Provost (Students) of the following:

- (a) An allegation of Non-Academic Misconduct has been received;
- (b) The nature of the Non-Academic Misconduct;
- (c) The name of the Student alleged to have committed the Non-Academic Misconduct; and
- (d) The intention of the Disciplinary Authority to initiate an investigation in accordance with this Procedure.

2.14 The Vice-Provost (Students) will review this information and advise the Disciplinary Authority if he or she feels the matter should be referred to STATIS before the investigation is conducted.

Notice to the Student

2.15 After consultation with the Vice-Provost (Students), the Student who is the subject of a disciplinary matter will be informed in writing by the Disciplinary Authority (with a copy to the University's Registrar) that:

- (a) An investigation is proceeding in accordance with this Procedure, the nature of the matter being investigated, that the Student may be subject to Disciplinary Action, and that a hold will be placed on the Student's record in accordance with section 2.16 of this Procedure until the allegation is investigated;
- (b) The Student will be given an opportunity to respond to the allegation and, if a meeting is scheduled, notice will be provided as to who will be present on behalf of the University at the meeting;
- (c) The Student may seek advice and representation from a Student Advocate, a representative from the University of Manitoba Students' Union, a representative from the Graduate Students' Association, a member of the University Community not receiving payment for appearing, a member of the Student's immediate family, or other support person as may be appropriate. It is the sole responsibility of the Student to determine the adequacy of the Student's representation;
- (d) Failure to respond by a specified date will result in the matter being considered without the Student's response;
- (e) The Student may obtain a copy of this Procedure, the Bylaw and related procedures. These documents are available online or from the Office of the University Secretary or the Student Advocacy office;
- (f) The Student has a right to appeal in accordance with the Bylaw and Appeal Procedure.

Student Records

2.16 The Disciplinary Authority will request that the Registrar place a hold on the Student's record to prevent the issuance of transcripts, transfers between Faculty/College/School and changes in registrations until the alleged Non-Academic Misconduct is investigated. Until a decision has been made and any appeal process available under the Bylaw has concluded, the Student shall be permitted to continue in the course or program and the Disciplinary Authority must ensure the Student's work continues to be graded normally and is unaffected by the allegation of Non-Academic Misconduct, subject to sections 2.25 and 2.26 of the Bylaw.

Investigation Procedure

2.17 Subject to section 2.18 of this Procedure, the Disciplinary Authority will, either personally or through a designate, conduct an investigation into the allegations of Non-Academic Misconduct in any manner that he or she deems appropriate to the nature of the alleged Non-Academic Misconduct, the seriousness of the issues involved, and any admissions made during the investigation. This may include some or all of:

- (a) Interviewing witnesses;
 - (b) Reviewing documents and records (both paper and electronic);
 - (c) Reviewing photographs, audio, and video recordings;
 - (d) Examining physical evidence;
 - (e) Arranging for testing of physical evidence;
 - (f) With the consent of participants, arranging for medical or psychological evaluations; and/or
 - (g) Submitting a Third Party Data Access Request Form to IST regarding accessing electronic systems and consulting with Access and Privacy Office as required to facilitate the request.
- 2.18 The Disciplinary Authority may choose not to personally investigate where the issue has been or may be investigated pursuant to another University policy, procedure or bylaw.
- 2.19 The Disciplinary Authority will conduct the investigation in accordance with the principles of procedural fairness and natural justice. In particular, the Disciplinary Authority will ensure that:
- (a) The Student must be informed of the allegations against him or her, including, subject to section 2.34 of this Procedure, having access to all documentary and other evidence relied upon by the Disciplinary Authority and knowing the identity of the complainant;
 - (b) The Student must be provided an opportunity to respond to the allegations;
 - (c) While strict rules of evidence do not apply, appropriate weight must be given to evidence based on its credibility and reliability; and
 - (d) Witnesses may wish to consult with or respond through an advocate (which may include legal counsel, a union representative, or a Student Advocate, as may be appropriate).
- 2.20 The Disciplinary Authority (or designate) may meet with the Student to present the facts/evidence concerning the allegation and to give the Student an opportunity to respond to the allegation and present his/her explanation of the matter. The Disciplinary Authority will give notice to the Student as to who will be present on behalf of the University at such a meeting.

Decision

2.21 The Disciplinary Authority will inform the Student that a written decision letter will be sent normally within five (5) working days of receiving the Student's response. If the Student does not respond within a reasonable time, the Disciplinary Authority will consider the matter and make a decision in the absence of the Student's response and based on the information that is available.

2.22 At the conclusion of the investigation, the Disciplinary Authority will inform the Student of his or her decision in writing and will include, at minimum, the following:

- (a) A summary of the allegation of Non-Academic Misconduct;
 - (b) A summary of the process and key timelines in the investigation;
 - (c) A summary of the key evidence obtained through the investigation, including the response of the Student to the allegation;
 - (d) An indication of which key evidence was considered credible and reliable;
 - (e) A conclusion as to whether, on a balance of probabilities, the Non-Academic Misconduct occurred;
 - (f) A summary of the reasons for the conclusion;
 - (g) A summary of any Disciplinary Action instituted in accordance with the Bylaw and section 2.23 of this Procedure; and
 - (h) If Disciplinary Action is taken, information about the right to appeal, the time period for appeal, and the person and contact information for the submission of an appeal, in accordance with the Bylaw.
- 2.23 Where there is a finding of Non-Academic Misconduct, the Disciplinary Authority will consider any previous findings of Non-Academic Misconduct before determining the appropriate Disciplinary Action under the Bylaw. In the case where the Disciplinary Authority is not the Unit Head of the Faculty/College/School in which the Student is registered, the Disciplinary Authority will determine the appropriate Disciplinary Action in consultation with the Unit Head of that Faculty/College/School.

2.24 The Disciplinary Authority will send a copy of their decision to the Registrar, to the Vice-Provost (Students), and to the Unit Head of the Faculty/College/School in which the Student is registered.

Appeals

2.25 Students have a right to appeal Disciplinary Actions in accordance with the Bylaw and the Appeal Procedure.

CONCERNING BEHAVIOUR

2.26 "Concerning Behaviour" means any behaviour that, while not indicative of a clear immediate threat, gives rise to a reasonable apprehension that the Student may engage in conduct harmful to him- or herself or to others, including but not limited to:

- (a) Threats of self-harm;
 - (b) Worrisome behavioral changes in an individual, such as changes in appearance, social withdrawal or isolation, apparent detachment from reality, or inordinate interest in or discussion of violent themes or events.
- 2.27 Where a Student is exhibiting Concerning Behaviour, members of the University Community must report such behaviour to their Unit Head, a member of STATIS, and/or UMSS. The Unit Head of the Student's Faculty/College/School of registration must be consulted and that Unit Head should, where appropriate:

- (a) Ensure the Student receives timely voluntary counselling referrals through existing support services at the University, such as the Student Support Case Manager, Student Counselling Centre, University Health Services, and/or the Faculty Counselling Services (College of Medicine);
- (b) Use this Procedure, the Student Discipline Bylaw and other policies, procedures and bylaws as appropriate where additional action is necessary to deal with Concerning Behaviour.

2.28 Members of the University Community must report incidents of Concerning Behaviour to UMSS and STATIS where a Student's Concerning Behaviour is affecting the various services and administration offices of the University, or where the Concerning Behaviour is of a nature or quality that likely will result in:

- (a) Serious harm to the Student or substantial deterioration of the Student's health; or
- (b) Serious harm to another person or property;

2.29 When reporting concerns to STATIS or UMSS, individuals should attempt to provide the following information:

- (a) Description of the Concerning Behaviour;
- (b) Name of the Student exhibiting the Concerning Behaviour; and
- (c) Indication of what action has been taken to date (if applicable), including a description of any meetings with the Student and any assistance provided, including referrals.

2.30 Information regarding Concerning Behaviour that is received during the Student application process must be referred to the Executive Director of Enrolment Services or the Dean of Graduate Studies, as appropriate. If the information is of serious concern to the respective Executive Director of Enrolment Services or the Dean of Graduate Studies, he/she may seek the advice of the University Legal Counsel and may initiate a staff conference of STATIS.

2.31 If a Student does not accept personal responsibility for their Concerning Behaviour or will not accept appropriate referral for voluntary counselling, the Unit Head should proceed as follows:

- (a) Advise the Student to seek professional help; and
- (b) Contact the Executive Director of Student Support if the Student refuses to voluntarily seek professional help. The Executive Director of Student Support may consult with colleagues to determine whether or not an involuntary psychiatric assessment is advisable according to mental health legislation and regulations.

CONFIDENTIALITY

Obligations of Confidentiality by the University

2.32 In respect of an incidence of Non-Academic Misconduct or Concerning Behaviour, the University will not disclose the name of the complainant, the Student, or the circumstances related to the complaint to any person, other than where the disclosure is:

- (a) Necessary to investigate the complaint or take corrective action with respect to the complaint;
- (b) Necessary to coordinate an action plan for a Student exhibiting Concerning Behaviour that includes supports and a clear referral mechanism for the Student; or

(c) Required by law.

2.33 Personal information that is disclosed under section 2.32 above in respect of an incidence of Non-Academic Misconduct or Concerning Behaviour will be the minimum amount necessary for the purpose.

Obligations of Confidentiality by the Disciplinary Authority

2.34 The Disciplinary Authority, in conducting the investigation, will comply with The Freedom of Information and Protection of Privacy Act and The Personal Health Information Act with respect to personal information and personal health information collected, used and disclosed in the course of the investigation. Where a Disciplinary Authority is unsure of whether they may disclose particular information, they may seek advice from the Access and Privacy Office.

2.35 The Disciplinary Authority will advise all persons involved with an investigation as to their obligations regarding confidentiality, and the protections available to them under this Procedure.

Obligations of Confidentiality by the Others

2.36 All persons involved in an investigation of an incident of Non-Academic Misconduct or Concerning Behaviour, whether as a witness or retrieving relevant information or documents, must keep confidential:

- (a) The existence and nature of the investigation; and
- (b) Any information or documentation obtained as a result of the investigation;

which information may only be disclosed to those who reasonably need to know. Where an individual is unsure of whether they may disclose particular information, they may seek advice from the Access and Privacy Office.

2.37 Notwithstanding section 2.36, the Complainant, the Respondent, and witnesses involved in the investigation may:

- (a) Obtain confidential advice (including advice from a Student Advocate or lawyer, as may be appropriate);
- (b) Disclose information to others only to the extent reasonably necessary to gather evidence and, in the case of an accused Student, to make full answer and defense to the allegations; and
- (c) Use information obtained independent of the investigation in any other forum.

Records Management

2.38 The Disciplinary Authority will maintain files with respect to each complaint in accordance with the Records Management Policy and Procedure.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the President that a formal review of this Procedure is required.

3.2 The President is responsible for the implementation, administration and review of this Procedure.

3.3 Students, Faculty/College/School Councils, Unit Heads, Academic Staff and employees are responsible for complying with this Procedure.

Part IV

Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Procedure is September 1, 2026.

4.2 In the interim, this Procedure may be revised or repealed if:

- (a) the President or the Approving Body deems it necessary or desirable to do so;
- (b) the Procedure is no longer legislatively or statutorily compliant;
- (c) the Procedure is now in conflict with another Governing Document; and/or
- (d) the Parent Policy is revised or repealed.

Part V**Effect on Previous Statements**

5.1 This Procedure supersedes all of the following:

- (a) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (b) all previous Administration Governing Documents on the subject matter contained herein.

Part VI**Cross References**

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Student Discipline Bylaw;
- (b) Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct;
- (c) Table 3: Disciplinary Actions and Disciplinary Authorities;
- (d) Student Discipline - Appeal Procedure;
- (e) Respectful Work and Learning Environment Policy;
- (f) Sexual Assault Policy;
- (g) RWLE and Sexual Assault Procedure;
- (h) Residence Contract;
- (i) Violent or Threatening Behaviour Policy and Procedure;
- (j) Campus Alcohol Policy and Procedure;
- (k) Definitions of Academic Units Policy;
- (l) Records Management Policy and Procedure;
- (m) Use of Computer Facilities Policy and Procedure;
- (n) Third Party Data Access Request Form;
- (o) Student Advocacy Office Policy;
- (p) The Freedom of Information and Protection of Privacy Act, CCSM c. F175;
- (q) The Personal Health Information Act, CCSM c. P33.5.

Violent or Threatening Behaviour**Violent or Threatening Behaviour Procedure****Part I****Reason for Procedure**

1.1 The reason for this Procedure is:

- (a) To establish a protocol for reporting and responding to incidents of Violence that occur with respect to University Matters and to provide a mechanism to support the maintenance of a safe, positive and productive work and learning environment; and
- (b) To comply with The Workplace Safety and Health Regulation, W210 – 217/2006.

1.2 The Policy and this Procedure are not intended to discourage or prevent a complainant from exercising any other rights, actions or remedies that may be available to him or her under any other law.

Part II**Procedural Content****Definitions**

2.1 The following terms are defined for the purpose of this Procedure:

- (a) "Bylaw" means the Student Discipline Bylaw.
- (b) "Disciplinary Authority" means the discipline authority designated to determine a matter of student discipline for Non-Academic Misconduct under the Student Discipline Bylaw, the Student Non-Academic Misconduct and Concerning Behaviour Procedure, and Table 2: Jurisdiction of Disciplinary Authorities for Non-Academic Misconduct.
- (c) "LASH" means the Local Area Safety and Health committee established by the University of Manitoba in accordance with the provisions of The Workplace Safety and Health Act (Manitoba).
- (d) "OSHA" means the Organizational Safety and Health Advisory committee established by the University that will look at safety and health issues that cross department/faculty lines or affect the University as a whole.
- (e) "Policy" means the Violent or Threatening Behaviour Policy.

(f) "Procedure" means this Violent or Threatening Behaviour Procedure.

(g) "STATIS" means the Student/Staff Threat Assessment Triage Intervention Support team comprised of the following representatives:

- (i) Vice-Provost (Students);
- (ii) Associate Vice-President (Human Resources);
- (iii) Director, Security Services;
- (iv) Executive Director, Student Support;
- (v) Student Support Case Manager; and
- (vi) Legal Counsel.

(h) "UMSS" means the University of Manitoba's Security Services.

(i) "Unit" means a faculty, school, college, institute, centre, academic support unit (for example, libraries) or administrative unit whose Unit Head reports to the President or a Vice-President, Associate Vice-President or Vice-Provost. An academic department within a faculty or school is not a Unit as the term is used within these Procedures.

(j) "Unit Head" refers to the individual with direct supervisory authority over a Unit, including Deans, Directors, the University Librarian, the President, Vice-Presidents, Associate Vice-Presidents and Vice-Provosts with respect to their Units.

(k) "University" means The University of Manitoba.

(l) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, students, volunteers, external parties, contractors and suppliers.

(m) "University Matter" has the same meaning as defined in section 2.3 of this Procedure.

(n) "Violence" means:

- (i) The attempted or actual exercise of physical force against a person; or
- (ii) Any threatening statement or behaviour that gives a person reasonable cause to believe that physical force will be used against the person.

Scope

2.2 This Procedure applies to members of the University Community in relation to any University Matter.

2.3 "University Matter" means any activity, event, or undertaking in which a member of the University Community participates, which has a substantial connection to the University, such as:

(a) University-related activities or events, including but not limited to:

- (i) Any activity or event on property owned or controlled by the University;
- (ii) The leasing of space, including student residence rooms, on property owned or controlled by the University;
- (iii) The offering of any service by the University, including educational services;
- (iv) Student placements, practica, or clinical training;
- (v) University research activities, whether on or off campus;
- (vi) Student and/or employee exchanges arranged in connection with the University;
- (vii) Social events or networking, where matters regarding the University or members of the University Community are a significant focus of the activity;
- (viii) University field trips, travel-study tours, service-learning activities, and similar activities;

(b) Activities or events involving members of the University Community, where the actions of those members of the University Community may reasonably reflect upon or affect the University, including but not limited to:

- (i) Any aspect of the employment or engagement of employees and contractors for roles and projects substantially connected to the University;
- (ii) Participation on a committee or board as a representative of the University;
- (iii) Writings, photographs, artwork, audio or video recordings, and/or electronic communications, including communications through social media, where matters regarding the University or members of the University Community are a significant focus of the communication;
- (iv) Matters related to The University of Manitoba Students' Union, the Graduate Students' Association, and their affiliated student groups to the extent that it affects the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments; or
- (v) Matters of off-campus conduct that have, or might reasonably be seen

to have an adverse effect on the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments.

Immediate Response Protocol

2.4 In the event of imminent bodily harm, individuals should call 911 and UMSS. When reporting an incident, individuals should attempt to provide the following information:

- (a) A complete description of the incident(s) involving Violence;
- (b) Name(s) of individuals involved in the incident(s);
- (c) Description of individual(s), if name(s) not known;
- (d) Name(s) of witness(es) or description, if name(s) not known; and
- (e) Location of the incident(s).

2.5 Where a report of Violence is received by UMSS, UMSS shall respond as soon as reasonably possible and the Director of UMSS (or designate) shall be notified.

2.6 Without limiting the scope of their jurisdiction and/or mandate, UMSS may take any one or more of the following actions in response to a report of Violence, as reasonably determined by UMSS:

- (a) Restore order in violent situations;
- (b) Arrest individual(s) in accordance with section 494(1) of the Criminal Code;
- (c) Contact Winnipeg Police Service;
- (d) Arrange medical assistance;
- (e) Take statement(s) of witness(es);
- (f) Make appropriate referrals; and
- (g) Take immediate action to facilitate the removal or banning of individuals from University property.

2.7 Any decision under section 2.6(g) above to remove an individual from University property shall be effective immediately, subject to review by the Vice President (Administration). The Chief Risk Officer, the appropriate Unit Head, and STATIS shall be advised of the action as soon as possible.

2.8 The Director of Security Services shall in all cases file a written report with the Vice-President (Administration) on the next business day describing any action taken under section 2.6(g) above.

2.9 Members of the University Community, including students and employees, who have been harmed as a result of an incident of Violence, are encouraged to consult with a health care provider for treatment or referral for post-incident counselling, if appropriate.

2.10 For students affected by Violence, the University will:

- (a) Provide reasonable academic accommodations (such as extensions on assignments, deferrals of exams, leaves of absences, authorized withdrawals, etc.).

- (b) Create a safety plan in consultation with the University's Student Support Case Manager, UMSS, and other offices as appropriate.

2.11 For employees affected by Violence, the University will:

- (a) Provide reasonable work accommodations, in consultation with Human Resources; and
- (b) Create a safety plan, in consultation with the Unit Head, UMSS and other offices as appropriate.

Report to STATIS

2.12 Where a report of Violence is received by STATIS under section 2.7 of this Procedure, the role of STATIS will be to:

- (a) Develop an action plan to assist and support the members of the University Community affected by the Violence;
- (b) Ensure that members of the University Community affected by the Violence are consulted where appropriate and kept informed of the developments within the parameters of confidentiality;
- (c) Make recommendations to the appropriate Unit Head and/or Disciplinary Authority; and
- (d) Take all necessary action relative to the above.

2.13 A coordinator for STATIS shall be appointed for each incident as follows:

- (a) If the conduct of a Student is the source of concern, the coordinator will be the Vice-Provost (Students) (or a designate);
- (b) If the conduct of an employee is the source of concern, the coordinator will be the Associate Vice-President (Human Resources) (or a designate);

and

(c) If the conduct of any other member of the University Community is the source of concern, the coordinator will be the Director of Security Services (or a designate).

2.14 The coordinator of STATIS will have the following responsibilities:

- (a) Bring together STATIS and, where necessary, experts and other University personnel;
- (b) Coordinate internal and external communication;
- (c) Maintain confidential records and ensure the Vice-President (Administration) is informed of developments as appropriate;
- (d) Convene debriefing sessions; and
- (e) Prepare a final report and recommendation in relation to any decision taken by UMSS under section 2.6(g) above, to be delivered to the Vice-President (Administration) for final determination, with a copy to the Chief Risk Officer and the Unit Head of any Unit affected by the Violence.

Investigation

2.15 As soon as reasonably practicable after an incident of Violence, the University shall investigate the incident as follows:

- (a) Where the individual is an employee, the Unit Head for the employee's Unit will investigate the allegation in consultation with STATIS and Human Resources, and in accordance with applicable legislation, common law, collective agreements, and University policies, procedures and bylaws;
 - (b) Where the individual is a student, the Disciplinary Authority under the Bylaw and related procedures will investigate the allegation in consultation with STATIS and in accordance with the Student Non-Academic Misconduct and Concerning Behaviour Procedure; and
 - (c) Where the individual is neither an employee nor a student, the Director of UMSS will investigate the allegation in accordance with applicable legislation, common law, and University policies, procedures and bylaws.
- 2.16 The Unit Head of any affected Unit, in consultation with the Office of Risk Management, will implement any control measures that are identified as a result of the investigation that will eliminate or control the risk of Violence to individuals in their Unit.

Discipline

2.17 Individuals who are found to have engaged in Violence under this Policy will be subject to disciplinary action as follows:

- (a) Where the individual is an employee, the discipline will be implemented pursuant to and in accordance with applicable legislation, common law, collective agreements, and University policies, procedures and bylaws.
- (b) Where the individual is a student, the discipline will be implemented in accordance with the Student Discipline Bylaw and the Student Non-Academic Misconduct and Concerning Behaviour Procedure.
- (c) Where the individual is neither an employee nor a student, the Vice-President (Administration) or designate may make any determination regarding the individual's continued access to the University in accordance with the Procedure and the Vice-President (Administration) Bylaw.

2.18 The Office of Risk Management must be advised of any decision taken under section 2.17 above.

2.19 The University may take disciplinary/legal action against any individual who submits a frivolous or vexatious complaint under this Policy, or who interferes with an investigation of a complaint under this Policy.

Violence Prevention Plan

2.20 Subject to section 2.26 of this Procedure and in consultation with the Office of Risk Management, the Unit Head shall advise all employees for which they are responsible of the risk of Violence in the Unit, including the nature and extent of the risk and the risk of Violence from persons whom the employees are likely to encounter in the course of their work.

2.21 In accordance with The Workplace Safety and Health Regulation, each Unit Head shall, no less than annually:

- (a) Consult with the employees in their Unit, the applicable LASH committee, and the Office of Risk Management to review and develop the violence prevention plan that will be implemented by their Unit;
- (b) Ensure that all employees in their Unit have received appropriate training in the Policy, this Procedure, and the violence prevention plan for their Unit; and

(c) Review the mechanisms in place to ensure that employees in their Unit comply with the Policy, this Procedure, and the violence prevention plan for their Unit.

2.22 The violence prevention plan referred to in section 2.21 above shall provide information on the following matters:

(a) A description of:

(i) Any particular worksite in their Unit of which the University is aware that an incident of Violence has occurred or may reasonably be expected to occur; and

(ii) Any particular job functions at the workplace where an employee performing their job function has been, or may reasonably be expected to be, exposed to the incident of Violence;

(b) The measures the University will implement to eliminate the risk of Violence in the Unit, or the measures that the University will implement to control that risk if it is not reasonably practicable to eliminate it;

(c) The measures and procedures that the University has in place for summoning immediate assistance when an incident of Violence occurs or is likely to occur in the Unit;

(d) A statement directing the employee to review the Policy and this Procedure, as well as any other documents that will outline the measures and procedures that the University has in place for summoning immediate assistance when an incident of Violence occurs or is likely to occur; and

2.23 The violence prevention plan shall be communicated to all employees in the Unit immediately at the time of hire and shall be posted online or in the Unit for quick reference by employees.

Annual Report

2.24 Annually, the Office of Risk Management will prepare a report that compiles:

(a) A record of the incidents of Violence in each Unit of the University, if any; (b) The results of any investigation into an incident of Violence, including a copy of:

(i) Any recommendations for control measures or changes to the violence prevention policy for the affected Unit; and

(ii) Any report prepared under in respect of such an incident;

(c) The control measures, if any, implemented as a result of an investigation into an incident.

2.25 The annual report will be provided to the Vice-President (Administration) and to OSHA.

Obligations of Confidentiality by the University

2.26 In respect of an incidence of Violence, the University will not disclose the name of the complainant, the name of the respondent, or the circumstances related to the complaint to any person, other than where the disclosure is:

(a) Necessary in order to investigate the complaint;

(b) Required in order to take corrective action in response to the complaint; or

(c) Required by law, including but not limited to the University's legal obligations under the Workplace Safety and Health Regulation (Manitoba).

2.27 Personal information that is disclosed under section 2.26 above in respect of an incidence of Violence must be the minimum amount necessary for the purpose.

Obligations of Confidentiality by Others

2.28 All persons involved in an investigation of an incident of Violence, whether as a witness or retrieving relevant information or documents, must keep confidential:

(a) The existence and nature of the investigation; and

(b) Any information or documentation obtained as a result of the investigation;

which information may only be disclosed to those who reasonably need to know. Where an individual is unsure of whether they may disclose particular information, they may seek advice from the Access and Privacy Office or from STATIS.

2.29 Notwithstanding section 2.28 above, any person involved in an investigation may:

(a) Obtain confidential advice (including advice from a student advocate,

union representative, lawyer, or support person(s), as may be appropriate); (b) Disclose information to others only to the extent reasonably necessary to gather evidence and to make full answer to any allegations; and (c) Use information obtained independent of the investigation in any other forum.

Legislated Review of the Procedure

2.30 In accordance with The Workplace Safety and Health Act (Manitoba), the OSHA shall review these Procedures every three (3) years and make any recommendations it feels are necessary and advisable.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the Vice-President (Administration) that a formal review of this Procedure is required.

3.2 The Chief Risk Officer or designate is responsible for the implementation, administration and review of this Procedure.

3.3 Board of Governors members, Senate members, faculty/college/school councils, employees, anyone holding an appointment with the University, Students, volunteers, external parties, contractors and suppliers are responsible for complying with this Procedure.

Part IV Review

4.1 Governing Document reviews shall be conducted every three (3) year. The next scheduled review date for this Procedure is June 22, 2019.

4.2 In the interim, this Procedure may be revised or repealed if:

(a) the Vice-President (Administration) deems it necessary or desirable to do so;

(b) the Procedure is no longer legislatively or statutorily compliant;

(c) the Procedure is now in conflict with another Governing Document; and/or

(d) the Parent Policy is revised or repealed.

Part V Effect on Previous Statements

5.1 This Procedure supersedes all of the following:

(a) Violent or Threatening Behaviour Procedure, effective March 17, 2009;

(b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and

(c) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

(a) Violent or Threatening Behaviour Policy;

(b) The Workplace Safety and Health Act, C.C.S.M. c. W210;

(c) The Workplace Safety and Health Regulation W210 – R.M. 217/2006;

(d) Health and Safety Policy;

(e) Safety Committees Procedure;

(f) Respectful Work and Learning Environment Policy;

(g) Sexual Assault Policy;

(h) RWLE and Sexual Assault Procedure;

(i) Student Non-Academic Misconduct and Concerning Behaviour Procedure;

(j) Student Discipline Bylaw; and

(k) Use of Computer Facilities Policy and Procedure.

Violent or Threatening Behaviour Policy

Part I Reason for Policy

1.1 The purpose of this Policy is to:

(a) Outline the University's commitment to creating and maintaining a safe,

positive and productive work and learning environment that is free of Violence; and

(b) Set out the actions and measures that the University will take to address the risk of Violence within the University.

Part II

Policy Content

Definitions

2.1 The following terms are defined for the purpose of this Policy and related Procedures:

- (a) "Policy" means this Violent or Threatening Behaviour Policy.
- (b) "Procedure" means the Violent or Threatening Behaviour Procedure.
- (c) "University" means The University of Manitoba.
- (d) "University Community" means all Board of Governors members, Senate members, Faculty/College/School Councils, employees, anyone holding an appointment with the University, students, volunteers, external parties, contractors and suppliers.
- (e) "University Matter" has the same meaning as defined in section 2.3 of this Policy.
- (f) "Violence" means:
 - (i) The attempted or actual exercise of physical force against a person; or
 - (ii) Any threatening statement or behaviour that gives a person reasonable cause to believe that physical force will be used against the person.

Scope

2.2 This Policy applies to members of the University Community in relation to any University Matter. Nothing in this Policy is intended to detract from the academic freedom of the University's academic staff.

2.3 "University Matter" means any activity, event, or undertaking in which a member of the University Community participates, which has a substantial connection to the University, such as:

- (a) University-related activities or events, including but not limited to:
 - (i) Any activity or event on property owned or controlled by the University;
 - (ii) The leasing of space, including student residence rooms, on property owned or controlled by the University;
 - (iii) The offering of any service by the University, including educational services;
 - (iv) Student placements, practica, or clinical training;
 - (v) University research activities, whether on or off campus;
 - (vi) Student and/or employee exchanges arranged in connection with the University;
 - (vii) Social events or networking, where matters regarding the University or members of the University Community are a significant focus of the activity;
 - (viii) University field trips, travel-study tours, service-learning activities, and similar activities;
- (b) Activities or events involving members of the University Community, where the actions of those members of the University Community may reasonably reflect upon or affect the University, including but not limited to:
 - (i) Any aspect of the employment or engagement of employees and contractors for roles and projects substantially connected to the University;
 - (ii) Participation on a committee or board as a representative of the University;
 - (iii) Writings, photographs, artwork, audio or video recordings, and/or electronic communications, including communications through social media, where matters regarding the University or members of the University Community are a significant focus of the communication;
 - (iv) Matters related to The University of Manitoba Students' Union, the Graduate Students' Association, and their affiliated student groups to the extent that it affects the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments; or
 - (v) Matters of off-campus conduct that have, or might reasonably be seen to have an adverse effect on the proper functioning of the University or the rights of a member of the University Community to use and enjoy the University's learning and working environments.

Policy Statement

2.4 Individuals who commit Violence in relation to a University Matter will be subject to discipline under the Procedure.

2.5 The University will establish a protocol in accordance with the Procedure for reporting and responding to incidents of Violence and to provide a mechanism to support the maintenance of a safe work and learning environment. The University will make the protocol easily and readily available to the University Community.

2.6 This Policy and the Procedure are not intended to discourage or prevent a complainant from reporting instances of Violence to the police or exercising any other rights, actions or remedies that may be available to him or her under any other law.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the Vice-President (Administration) that a formal review of this Policy is required.

3.2 The Vice-President (Administration) is responsible for the implementation, administration and review of this Policy.

3.3 Board of Governors members, Senate members, faculty/college/school councils, employees, anyone holding an appointment with the University, Students, volunteers, external parties, contractors and suppliers are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

4.1 The Vice-President (Administration) may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V

Review

5.1 Governing Document reviews shall be conducted every three (3) years. The next scheduled review date for this Policy is June 22, 2019.

5.2 In the interim, this Policy may be revised or repealed by the Approving Body if:

- (a) the Vice-President (Administration) or the Approving Body deems it necessary or desirable to do so;
- (b) the Policy is no longer legislatively or statutorily compliant; and/or
- (c) the Policy is now in conflict with another Governing Document.

5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

- (a) comply with the revised Policy; or
- (b) are in turn repealed.

Part VI

Effect on Previous Statements

6.1 This Policy supersedes all of the following:

- (a) Violent or Threatening Behaviour Policy, effective March 22, 2006;
- (b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
- (c) all previous Administration Governing Documents on the subject matter contained herein.

Part VII

Cross References

7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

- (a) Violent or Threatening Behaviour Procedure;
- (b) Sexual Assault Policy;
- (c) RWLE and Sexual Assault Procedure;
- (d) Vice-President (Administration) Bylaw;
- (e) Student Discipline Bylaw;
- (f) Student Non-Academic Misconduct and Concerning Behaviour Procedure;
- (g) Use of Computer Facilities Policy and Procedure;
- (h) The Workplace Safety and Health Act, C.C.S.M. c. W210; and
- (i) The Workplace Safety and Health Regulation, W210 – 217/2006.

This policy is available online at http://umanitoba.ca/admin/governance/governing_documents/community/669.html.

Hold Status

Students will be placed on "Hold Status" if they incur any type of outstanding obligation (either financial or otherwise) to the university or its associated faculties, schools, colleges or administrative units.

Some typical reasons for holds are:

- Program/course selection must be approved
- U1 student must transit into the Faculty of Arts or Science
- Required Major, Minor and/or Concentration declaration
- Transcripts or documents required from other institutions
- Unpaid tuition and/or other university fees
- Outstanding library books and/or fines
- Parking fines
- Pending disciplinary action

Depending on the reason for the hold, limited or no administrative or academic services will be provided to students on Hold Status until the specific obligations have been met.

Students must clear their holds prior to registration by contacting the appropriate office. Students with outstanding financial obligations to the university will not be permitted to register again until the hold has been cleared or permission to register has been obtained from the Office of the Vice-President (Administration).

Advisor and Program Holds

Students enrolled in some programs are required to discuss their course selections and program status with an advisor prior to registration. Advisor and Program Holds normally only restrict registration activity; other administrative services remain available.

Students can verify whether their program requires consultation with an advisor by checking their faculty/school section of the Academic Calendar, or by viewing their Registration Time and Status in Aurora.

More details about being on Hold can be found online at <http://www.umanitoba.ca/student/records/registration/steps/652.html>.

Electronic Communication with Students

Part I

Reason for Policy

1.1 The University of Manitoba (the "University") is committed to using available technology to communicate among members of the University community. It recognizes an expanding reliance on electronic communication by academic and administrative staff of the University with students due to the convenience, speed, cost-effectiveness, and environmental advantages it provides. This policy will define the proper use of electronic communications between University academic or administrative staff and students. Electronic communications may include, but are not limited to, electronic mail, electronic bulletin boards, and web sites.

1.2 When communicating by email it is important to ensure that the email is being directed to the intended individual. In an effort to protect confidentiality and privacy in electronic communications and ensure compliance with applicable legislation and policies including *The Freedom of Information and Protection of Privacy Act* ("FIPPA"), *The Personal Health Information Act* ("PHIA") and the University's Computer Usage Policy, all official electronic communications must be directed to University of Manitoba email accounts (see section 2.4).

Part II

Policy Content

2.1 The University requires all students to activate an official University email account.

2.2 The University authorizes the use of electronic communication for official communication between university staff and students, subject only to the confidentiality and privacy provisions outlined below.

2.3 All students are expected to comply with established guidelines and procedures that define the proper use of electronic communications as outlined in this policy and in the University's Use of Computer Facilities Policy.

Provision of University of Manitoba email accounts

2.4 The University will provide all students with an official University email address. University email accounts must be obtained by students through the Claim ID process at: <http://umanitoba.ca/claimid>. The University email account claimed will be the address listed in University directories and contact information available to staff and faculty. The University will direct all official email communications to the official University email account.

Appropriate use of University email

2.5 Certain University electronic communications may be time-critical. Students are responsible for checking their University email account on a regular basis in order to stay current with University communications.

2.6 In general, electronic communications, including email, are not appropriate for transmitting sensitive or confidential information, including personal information, unless an appropriate level of security matches its use for such purposes:

- (a) Confidentiality regarding student records is protected under FIPPA. All use of electronic communication, including use for sensitive or confidential information, must be consistent with the University FIPPA and PHIA Policy;
- (b) Personal Health Information should not be transmitted via electronic communication at any time;
- (c) Email shall not be the sole method for notification of any legal action.

Access to University email

2.7 Students who are not in possession of a home computer or laptop, or do not have access to a computer at work, can use computers available in campus labs or in their local library.

Use of University email for instructional purposes

2.8 Academic staff may determine the extent to which electronic communication will be used in their classes. It is highly recommended that if academic staff have electronic communication requirements and expectations, these are specified in course syllabi, and that all assignments sent electronically (including by email) be accepted only when sent from a University email account. Academic staff may reasonably expect that students are accessing their University email account, and may use electronic communication for their courses accordingly.

This policy can be found online at http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html.

Final Examinations and Final Grades Policy

Part I

Reason for Policy

1.1 To establish the University of Manitoba's policy relating to final examinations and grades and to oversee the procedures related to final examinations, deferred and supplemental examinations, and final grades.

Use of Terms

1.2 Final Examination: A final examination is a test scheduled within an examination period which serves as the final evaluation of student performance in a course.¹

1.3 Deferred Examination: A deferred examination is a privilege that may be granted to a student:

(a) who is unexpectedly unable to write a final examination as scheduled; or

(b) who knows in advance that he or she is unable to write an examination at the scheduled time. Students may request a deferred examination(s) on the grounds that they are unable to write said examination(s) due to:

(i) a medical condition; or

(ii) participation in an inter-university, provincial, inter-provincial, national or international scholastic or athletic event; or

(iii) religious obligations.

Making a false or misleading claim regarding a deferred examination may be considered an offence under the Student Discipline Bylaw. Penalties may range from a failed grade in the course to suspension or expulsion.

(c) Supplemental Examination: A supplemental examination is the rewriting of a final examination and is a privilege offered by some faculties, schools, and academic units to students who have not achieved the minimum result in required courses. Within the conditions established by the student's faculty, a student who is granted a supplemental examination is given the opportunity to rewrite a final examination. The impact of a supplemental examination on the final grade is to be determined by regulations within the faculty.

Part II

Policy Content

2.1 The Senate has determined that each faculty or school or academic unit shall be responsible for establishing regulations governing evaluation procedures for students enrolled in its courses.

2.2 Those relevant items listed under procedures for final examinations, deferred and supplemental examinations, and final grades shall be incorporated into the regulations established by faculties, schools or academic units.

2.3 Faculties, schools, and academic units shall submit regulations and amendments to evaluation procedures to Senate for its approval via the Senate Committee on Instruction and Evaluation.

2.4 The Senate has determined that each faculty or school or academic unit shall adopt a formal policy for the appeal of grades given for term work, in that faculty or school or academic unit, that has been returned or made available to students before the last day of classes. Policies adopted by a faculty or school or academic unit, after review by the Senate Committee on Instruction and Evaluation, shall be forwarded to Senate for information.

¹ University of Western Ontario, Academic Handbook, Issued 2009 03.

This Policy and the Procedures that follow are available online at http://umanitoba.ca/admin/governance/governing_documents/academic/12_99.html.

Deferred and Supplemental Examinations Procedures

Part I

Reason for Procedure

1.1 To set out procedures secondary to the Policy entitled "Final Examinations and Final Grades", in connection with deferred examinations and supplemental examinations.

Part II

Procedural Content

Deferred Examinations

2.1 A deferred examination is a privilege that may be granted to a student who is unexpectedly unable to write an examination as scheduled or a student who knows in advance that he or she is unable to write an examination at the scheduled time. Making a false or misleading claim may be considered an offence under the Student Discipline Bylaw. Penalties may range from a failed grade in the course to suspension or expulsion.

2.2 Students who are unable to write an examination due to an unexpected illness must file an application for a deferred examination with the advising office of the faculty, school, or academic unit (including University 1 or Extended Education) in which they are registered, setting out the reasons for the deferral. The application must normally be filed within forty-eight (48) hours of the scheduled date of the missed examination or, in a case where more than one examination was missed, within forty-eight (48) hours of the scheduled date of the last examination missed. The application must be accompanied by a medical certificate or otherwise appropriate documentation certifying the reason for the deferral, the inability of the student to write the examination at the regular scheduled time and, where possible, an indication of the period of incapacity. Based on the evidence, the Dean or Director shall decide whether the application is approved. Based on the student's ongoing incapacity or other exceptional circumstances a deferral may be granted to a student who files an application after the forty-eight (48) hour period has lapsed.

2.3 Students may request a deferred examination(s) on the grounds that they are unable to write said examination(s) due to:

(a) participation in an inter-university, provincial, inter-provincial, national or international scholastic or athletic event;

(b) religious obligations; or

(c) a medical condition.

Students requesting a deferred examination due to a known condition as listed above must file an application normally twenty (20) working days prior to the day of the scheduled examination with the advising office of the faculty, school, or academic unit (including University 1 or Extended Education) in which they are registered.

2.4 Initial approval of all deferred examinations by the student's faculty, school, or academic unit shall be conditional upon verification that the student has completed all required components of the course and that it is mathematically possible for the student to pass the course by writing the final examination. Approval will be rescinded if these conditions are not met.

2.5 Any students requesting a deferred examination(s) on the grounds that said examination(s) conflict(s) with vacation or holiday plans shall not normally be granted a deferral.

2.6 If a student becomes ill or receives word of a family emergency during the course of an examination and is unable to continue, the student must report at once to the Chief Invigilator, hand in the examination, and indicate either that they wish to submit their examination paper as: (1) completed; or (2) not completed and with the right to request a deferred examination. The Chief Invigilator must record all notifications. Students leaving an examination early in compliance with this section are eligible to apply for a deferred examination under the provisions of section 2.2. Only students who do not complete the examination and who notify the Chief

Invigilator of the reason they cannot complete the examination shall be eligible to apply for a deferred examination.

2.7 No faculty, school, or academic unit shall have regulations that compel students to accept deferrals for any or all examinations or examination series.

2.8 When an application for a deferred examination is approved by the faculty, school, or academic unit, the head of the unit in which the course is offered, in consultation with the instructor concerned, shall schedule the deferred examination to take place normally within thirty (30) working days from the end of the examination series from which the examination was deferred, taking into account the following:

(a) If a deferred final examination is granted for a course that is a pre-requisite to another course or courses, students may be permitted to remain registered in those affected courses. However, if the examination is written after the revision deadline and the pre-requisite course is not satisfied, the student will be withdrawn from all courses requiring it. Faculties, schools, and academic units are encouraged to schedule deferred examinations in pre-requisite courses early in a term to ensure that results are available prior to the course revision deadline.

(b) Faculties, schools, and academic units are requested to schedule deferred examinations as soon as possible for potential graduands so that final grades may be available in sufficient time to meet planned graduation deadlines.

2.9 In the event students are unable to write the examination as outlined in section 2.8 the following may take place:

(a) the deferred examination shall be written at the next scheduled examination series in which the course is offered (unless the faculty, school, or academic unit chooses to make other arrangements); subsequent requests for re-deferral may result in the student being denied registration in the current or a future term until all outstanding examination obligations have been completed;

(b) the head of the academic unit in which the course is offered, in consultation with the instructor concerned, may assign a grade without examination. In such cases, the grades shall be assigned on the basis of the term work and assignments. Faculty or School Councils shall establish the procedure by which such a decision will be implemented.

(c) the deferred examination must be written within a time frame that enables the examination to be written and graded, and, if necessary, a supplemental examination to be written and graded, before the start of the next academic term in such cases in which the progression rules of the student's program require the successful completion of an entire academic year before a student is eligible to proceed in the next academic year.

2.10 Students who, for medical reasons, withdraw from a program or receive deferred examination privileges for all final examination series, or who fail to write deferred examinations as scheduled, may be prevented by the faculty, school or academic unit from reregistration until they have established, through appropriate medical consultation, their fitness to resume studies.

Supplemental Examinations

2.11 Supplemental Examinations are offered by some faculties to students who have not achieved the minimum result in required courses. Within the conditions established by the student's faculty, a student who is granted a Supplemental Examination is given the opportunity to rewrite a final examination. The impact of a supplemental examination on the final grade is to be determined by regulations within the faculty.

2.12 The results of supplemental examinations must be reported to the faculty or school council.

Final Examinations Procedures

Part I

Reason for Procedure

1.1 To set out Procedures secondary to the Policy entitled "Final Examinations and Final Grades" in connection with the method of conducting final examinations. A final examination is a test scheduled within an examination period which serves as the final evaluation of student performance in a course¹.

Part II

Procedural Content

Information Provided to Students

2.1 Within the first week of the academic term, students shall be informed of the method of evaluation to be used in each course, as specified in the Responsibilities of Academic Staff with Regard to Students Policy.

Examination General Regulations

2.2 Any test or tests, which have an aggregate value of more than 20% of the total value of the course may not be scheduled to take place during the fourteen (14) calendar days ending with the last day of classes in the term during the regular session as defined in the University General Calendar, or during the last two (2) classes of Summer Evening and the last three (3) classes for Summer Session (see Responsibilities of Academic Staff with regard to Students Policy).

2.3 No project or assignment may be announced during the periods outlined in section 2.2 unless contained in the course outline or syllabus required to be provided to all students in the course during the first week of classes (see Responsibilities of Academic Staff with Regard to Students Policy).

Final Examinations

2.4 No final examinations or the submission of take-home final examinations shall be scheduled to occur prior to the examination periods as described in the General Calendar except with the expressed joint consent of the Deans and Directors involved.

2.5 The weight of each question shall be clearly indicated on the examination paper.

2.6 The name of the instructor or course coordinator shall be clearly indicated on the examination paper.

2.7 Faculties, schools or academic units electing to use the services of the Registrar's Office shall adhere to the regulations outlined in section 2.8 below.

Regulations for Examinations Administered by the Registrar's Office

2.8 If a faculty, school, or academic unit elects to use the services of the Registrar's Office to schedule and administer examinations, the following regulations shall apply:

(a) Requests for examination scheduling must be submitted five (5) working days prior to the Revision Deadline for the term in which the course is offered.

(b) Examinations shall be of one, two or three hours duration.

(c) The faculty, school, or academic unit shall be responsible for supplying the number of examination invigilators as deemed necessary by the Registrar's Office.

(d) Examination question papers must be submitted to the Registrar's Office ten (10) calendar days in advance of the examination.

(e) The Registrar's Office shall make a record of any issues arising during the conduct of examinations and bring any matters to Senate that it deems to be significant.

(f) The responsibilities of invigilators (see section 2.14-2.16) shall apply for examinations administered by the Registrar's Office.

Regulations for Examinations Administered by Student Accessibility Services

2.9 Examinations administered by Student Accessibility Services are additionally regulated by the Accessibility for Students with Disabilities Policy.

Invigilation of Examination

2.10 The faculty, school, or academic unit shall supply such number of examination invigilators as is necessary. At a minimum, there shall normally be one invigilator for the first sixty (60) students and one additional invigilator for each fifty (50) students thereafter.

2.11 Invigilation of examinations shall normally be carried out by the instructor of record. In addition, university employees appointed as invigilators by a faculty, school, or academic unit may assist.

2.12 An instructor must be available during the whole of his or her examination even though he or she is not invigilating that examination.

2.13 In view of the responsibilities with which a Chief Invigilator has been charged, selection of Chief Invigilators for large examination halls shall ensure that they are persons at a more senior rank than that of teaching assistants.

Responsibilities of Invigilators and Students

2.14 Prior to an Examination

(a) Invigilators are required to report to the Registrar's Office for examinations administered by the Registrar's Office for supervisory duties not later than thirty minutes (one half hour) prior to the scheduled time for each examination. Examination material, supervisory lists, and the name of the invigilator in charge will be distributed.

(b) At each seat in the examination room, the invigilator should place the appropriate material required for the examination.

(c) The time of commencement of the examination shall be announced.

(d) Each student shall display his or her student card and photo identification and shall sign an attendance form.

2.15 Conduct During Examination

(a) Any student departing from accepted procedure during an examination must be reported immediately to the Chief Invigilator.

(b) The Chief Invigilator shall allow the student to continue writing the examination except as noted in subsection 2.15(g).

(c) The Chief Invigilator shall record the nature of the alleged infraction on the form provided by the Registrar's Office.

(d) The Chief Invigilator shall complete the introductory section of the form immediately and shall ask the student to sign at that point in order that the student provides positive identification.

(e) The Chief Invigilator shall advise the student, when the identification portion of the form has been signed, of his or her right to submit a separate report on the circumstances of the incident to the Dean or Director of his or her faculty, school, or academic unit.

(f) The Chief Invigilator shall ask that the student read the form containing full details of the incident by or at the close of the examination. The form,

thus completed, shall be sent to the Registrar's Office for distribution to the Dean or Director, to the student and to the invigilators involved in the incident.

(g) Notwithstanding the above, in those cases in which the behaviour of a student is disruptive to others writing the examination, or to the conduct of that examination, the Chief Invigilator may, after due warning, require that student to cease writing the examination and leave the examination hall. For such cases the form provided by the Registrar's Office must be completed, to the extent possible, in the manner outlined in the above paragraph.

(h) The Chief Invigilator shall ensure that no student leaves the room without signing the roll and submitting a script. In addition:

(i) No student shall be permitted to leave the examination room during the first thirty (30) minutes of an examination.

(ii) No student shall be permitted to enter the examination room after at least one other student who is writing the same examination has left the examination room.

(iii) A student who arrives to write an examination more than thirty (30) minutes after the start of the examination will not be permitted to write the examination.

(iv) Any student who, due to late arrival, is not permitted to write an examination will be asked to complete the appropriate form and will then be advised to contact the Office of his or her Dean or Director not later than the next business day to discuss possible alternatives.

(v) No student scheduled to write an examination in a centrally administered location who arrives late for the examination shall be permitted to write longer than the scheduled end-time for that examination. For those examinations not centrally scheduled, flexibility may be allowed at the discretion of the unit administering the examinations, but all students in a given course with commonly examined sections should have equal opportunities to take advantage of whatever flexibility is afforded.

(vi) Should a technical irregularity occur in an examination, such as misprinted information or wrong instruction, invigilators supervising the same examination in other locations must be informed. The Registrar's Office should be contacted immediately should this or other similar problems arise in an examination room.

(vii) If a student becomes ill or receives word of a family emergency during the course of an examination and is unable to continue, the student must report at once to the Chief Invigilator, hand in the examination, and indicate either that they wish to submit their examination paper as: (1) completed; or (2) not completed and with the right to request a deferred examination. The Chief Invigilator must record all notifications. Students leaving an examination early in compliance with this section are eligible to apply for a deferred examination under the provisions outlined in section 2.2 of the Deferred and Supplemental Examinations Procedures. Only students who do not complete the examination and who notify the Chief Invigilator of the reason they cannot complete the examination shall be eligible to apply for a deferred examination.

Note: Documentation verifying the illness may be required.

2.16 At the Close of the Examination

(a) The time of conclusion of the examination should be announced.

(b) Every candidate must turn in an examination script before leaving the room to the invigilator located at the exit of the room.

(c) A count must be made of the scripts by course number and balanced against the total for each course examination indicated on the nominal roll.

(d) No student may be permitted to re-enter an examination room until all examination scripts have been collected.

(e) The nominal roll must be returned to the Registrar's Office at the conclusion of the examination session. Examination scripts may be either received by the instructor(s) concerned or be delivered to the Registrar's Office.

Audio Visual Supports

2.17 The use of audio visual supports to display examination or test questions shall be prohibited with either of the following two exceptions:

(a) Audio visual supports may be used to display examination questions where arrangements have been made to display all questions simultaneously for the entire examination period; or

(b) In courses where time limited identification is a legitimate and specified part of the examination process, the use of overhead or slide projectors, or other audio visual supports for display purposes shall be permitted. Examinations using audio visual supports should not be scheduled with other examinations.

Unauthorized Materials in Examinations

2.18 Students are not permitted to access any unauthorized materials during an examination. This includes but is not limited to calculators, books, notes, pencil cases, or any electronic device capable of wireless communication and/or storing information (e.g. computer, dictionary, translator, cell phone, pager, PDA, mp3 units, etc.). However, students may bring in such materials or devices when permission has been given by the instructor.

Security

2.19 Students may store valuables and personal items under the desk or chair of the examination room but may not have access to these items during the examination. Items stowed under the desk or chair must not obstruct the aisles of the examination room. Students must ensure that all items required for the examination are placed on top of the desk prior to the start of the examination.

Posting Examination Answers

2.20 Answers to examination questions shall not be posted prior to the conclusion of the examination.

Student Access to Final Examinations

2.21 In order to allow proper feedback, students shall have an opportunity to read their own final examination script and any comments written on it prior to the deadline for a formal grade appeal, but only in the presence of the instructor or a staff member appointed by a faculty, school, or academic unit.

2.22 Notwithstanding section 2.21 above, there is no obligation upon the faculty, school, or academic unit to make machine-scored examination answer sheets available for consultation by students. It is expected that faculties, schools, and academic units will provide appropriate means of feedback to students in such circumstances and, where practicable, will encourage instructors to discuss selected questions and answers.

1 University of Western Ontario, Academic Handbook, Issued 2009 03.

Final Grades Procedures

Part I

Reason for Procedure

1.1 To set out procedures secondary to the Policy entitled "Final Examinations and Final Grades", in connection with:

- (a) Final grades;
- (b) Incomplete grades;
- (c) Continuing grades;
- (d) Appeal of final grades; and
- (e) Grading systems.

Part II

Procedural Content

Final Grades

2.1 Departments are required, subject to faculty and school regulations, to establish a procedure for the review and approval of final grades prior to submission to the Registrar.

2.2 All final grades must be submitted in accordance with the instructions received from the Registrar.

2.3 Final grades will be released to students by the Registrar's Office as they are submitted by faculties and schools, except where alternate arrangements have been made between the Dean or Director and the Registrar.

2.4 To protect the confidentiality of students' personal and private information, neither faculties, schools, academic units, nor instructors may post or publicly release grades.

Incomplete Grades

2.5 A student who is unable to complete the term work prescribed in a course may apply to the instructor, on or before the End Date for the term in which the course is offered (as set out in the Academic Schedule), for consideration of a grade classification of Incomplete.

2.6 The student is expected to write the final examination if one is scheduled for the course. It is possible to request a deferred examination based upon the conditions stated in the Deferred and Supplemental Examinations Procedures.

2.7 Taking into account the results of the final examination, the value of the term work completed, and the extent of the incomplete term work, the instructor shall calculate the temporary grade using a zero value for incomplete work. The grade code reported will consist of the appropriate letter grade following by a space followed by the letter "I".

2.8 In addition to the grade, the recommendation should indicate the reason(s) for consideration being given, a description of the outstanding work to be completed, and the date by which the work must be submitted. The following maximum extensions are allowed:

- (a) for courses terminated in April – August 1st
- (b) for courses terminated in August – December 1st
- (c) for courses terminated in December – April 1st

2.9 If the final grade is not reported within one month of the extension deadline, the letter "I" will be dropped and the grade remains as awarded. The student's opportunity to improve the grade will have lapsed.

2.10 In no case will the satisfaction of the Incomplete requirements cause a grade to be lowered.

2.11 When specific circumstances warrant, Deans or Directors may extend the date by which an Incomplete must be cleared. Instructors must formally request such an extension prior to the elapse of the maximum deadline date. In addition, the Registrar's Office must be notified of the extension.

Continuing Grades

2.12 For those graduate level courses which continue beyond the normal academic term, which are being taken by students enrolled in the Faculty of Graduate Studies, the instructor shall recommend that a grade of "CO" be used until such time as a final grade can be established.

Appeal of Term Work

2.13 The appeal of term work returned or made available to students before the last day of classes shall be subject to policies and procedures established by Faculty/School Councils.

Appeal of Final Grades

2.14 A student may enter an appeal, through the Registrar's Office, for assessment of one or more grades. A student wishing to make a final grade appeal must do so by the deadlines set for the following terms and sessions:

- (a) On a Fall Term course grade the deadline is fifteen (15) working days following the first day in January which the University is open.
- (b) On a Winter Term course grade the deadline is fifteen (15) working days after Victoria Day.
- (c) For Summer Session course grades the deadline is thirty (30) working days following the end of the examination period.
- (d) For all other programs the deadline is twenty (20) working days following the end of the examination period.

Applications must be made on a prescribed form obtainable from the Registrar's Office. On payment of the prescribed fee, such appeals shall be forwarded to the Head of the academic unit in which the course is offered.

2.15 Examination scripts are to be held by the teaching unit responsible for the course until six (6) months after the expiration of the appeal period. In individual cases where appeals have been initiated, the holding period will be extended accordingly.

- (a) Each faculty, school, or academic unit is responsible for arranging the proper processing of the appeals, and shall report the results of appeals to the Registrar's Office.
- (b) Normally the re-evaluation of a grade shall be undertaken by the instructor(s) responsible for the particular course (section) in consultation with at least one other instructor – in the same or related subject area – who shall independently assess the script and/or other relevant material.
- (c) In the event that an appealed grade has been awarded on the basis of an examination only, the entire script will be re-read.
 - (i) Except as noted below, where the grade has been awarded on the basis of an examination in combination with term work, the examination script will be re-read and term mark calculation reviewed.
 - (ii) In the case of grades awarded solely on the basis of term work, only the calculation will be reviewed.
 - (iii) In instances where term work has not been returned to students before the last day of classes, that term work shall also be re-read.

(d) Grades subject to appeal may not be lowered.

(e) In cases where appeals have resulted in a change of grade, the application fee will be refunded to the student.

(f) Teaching units shall be responsible for arranging to destroy examination scripts held by them in accordance with this section, ensuring in the process, the confidentiality of the document.

(g) The result of an appeal must be submitted to the Registrar's Office within thirty (30) days of the deadline for a student to submit the appeal being considered. In the event this deadline cannot be met, the academic unit must notify the Registrar's Office with reasons for the delay. In no case shall an appeal be delayed longer than sixty (60) days.

(h) Students who wish to appeal the results of a grade appeal based on procedural grounds must file an appeal with the office the Dean/Director of the teaching unit. A request for a review of appeal procedures must be filed within ten (10) working days of receipt of notification of the result of a Grade Appeal.

Grading Systems

2.16 Faculties and schools may investigate various grading systems in order that a better understanding is reached regarding the relationship between grading systems, evaluation processes, student performance and program objectives. Prior to taking action based on such investigation, the faculty or school must submit its proposal to the Senate Committee on Instruction and Evaluation for its approval.

Voluntary Withdrawal Policy

Part I

Reason for Policy

1.1 The University of Manitoba provides Students with sufficient time to plan their schedules through the registration cycle with both academic and personal circumstances in mind. The registration cycle is characterized by the Registration Period, the Registration Revision Period, and the Voluntary Withdrawal Period. The purpose of this Policy is to define and establish the requirements and limitations for Voluntary Withdrawal during the Voluntary Withdrawal Period at the University.

Part II

Policy Content Definitions

2.1 The following terms have the following defined meanings for the purpose of this Policy:

- (a) "Authorized Withdrawal" or "AW" is an approved withdrawal from all courses in a given period for medical or compassionate reasons, granted in accordance with the Authorized Withdrawal Policy and Procedure.
- (b) "Calendar" means the University's official academic calendar for the Term and Level in which a course is taught.
- (c) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
- (d) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
- (e) "Grade Point" refers to a numerical value assigned to a letter grade received in a course.
- (f) "Grade Point Average" or "GPA" refers to the average grade of courses completed at the same Level, which is calculated by dividing the total quality points earned by the number of credit hours attempted.
- (g) "Leave of Absence" is a period of leave established, administered, and approved by the Faculty/College/School that enables Students to temporarily withdraw from the University.
- (h) "Level" refers to the level of the degree in which the Student is enrolled, such as undergraduate level, graduate level or non-degree level.
- (i) "Official Record" is a Student's complete academic history at the University of Manitoba that is maintained by the Registrar's Office. Official Records are available in the form of an Official Transcript or a Student History.
- (j) "Official Transcript" is an official document printed on secure paper and signed by the Registrar that reflects a student's permanent record at the University of Manitoba.
- (k) "Policy" means this Voluntary Withdrawal Policy.
- (l) "Quality Points" is the grade point value of the assigned Letter Grade multiplied by the credit hours of the course.
- (m) "Registration Period" is the period prior to the beginning of classes in which new and returning Students may register.
- (n) "Registration Revision Period" is the period after the beginning of classes within which students may withdraw from a course or courses without academic or financial penalty.
- (o) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
- (p) "Student" refers to any person enrolled at the University.

- (q) "Student History" is the complete record of a Student's activity at the University, including a record of Authorized Withdrawals, produced for internal administrative use.
- (r) "Term" is a period of time defined in the Calendar within which a course for credit may be offered, including Fall, Winter and Summer Terms.
- (s) "University" means The University of Manitoba.
- (t) "Voluntary Withdrawal" or "VW" is a registration option that enables Students to withdraw from a course or courses after the Registration Revision Period without academic penalty.
- (u) "Voluntary Withdrawal Period" is the period after the Registration Revision Period in which Students may voluntarily withdraw from a course or courses, as outlined in section 2.6 of this Policy.

General

- 2.2 A Voluntary Withdrawal is to be distinguished from other University withdrawal options, such as Authorized Withdrawal, Leaves of Absence, withdrawal during the Registration Revision Period, or withdrawal pursuant to other University-approved policies or regulations.
- 2.3 Students at the undergraduate Level are generally permitted to VW from a course or courses without receiving prior approval from their Faculty/College/School.
- 2.4 In the event that a Student chooses to VW from a course with a co-requisite, the Student must also VW from the co-requisite course. To determine if a course has a co-requisite, Students should consult the Calendar and the course descriptions in the chapter of the Faculty/College/School offering the course.
- 2.5 Students at the graduate Level are not permitted to VW from a course or courses without receiving the approval of the advisor/advisory committee, the head or graduate chair in the department in which the Student is registered, and the Faculty of Graduate Studies.
- 2.6 Students may withdraw from a course(s) without academic penalty during the Voluntary Withdrawal Period, which begins at the end of the Registration Revision Period and ends on the VW deadline, as follows:
- The 48th teaching day for courses taught over a single Term;
 - The end of the Registration Revision Period of the second Term for courses taught over two or more Terms;
 - A date calculated using a pro-rated number of teaching days for Summer Term or other Irregularly Scheduled Courses, as published yearly in the Calendar.
- 2.7 Ceasing to attend a class or classes will not constitute an official withdrawal from that course. Students who do not VW from a course will remain enrolled in and will receive a final grade for that course.
- 2.8 Students who have elected to VW from a course cannot subsequently re-enroll in that course, except in accordance with the Repeated Course Policy.

Scope

- 2.9 This Policy applies only to Voluntary Withdrawal during the current Term. Students wishing to withdraw for medical or compassionate reasons should consult the Authorized Withdrawal Policy and Procedure, and provisions regarding Leaves of Absence as outlined in the Calendar.

Responsibilities of the Student

- 2.10 Students are responsible for considering all implications prior to VW. Withdrawal from a course or courses may affect academic progression, financial aid eligibility, CIS athletic eligibility, entrance into professional and graduate programs, and/or student visa requirements.

Responsibilities of the Faculties/Colleges/Schools

- 2.11 Voluntary Withdrawal may be considered, together with course failures or repeats, when the Faculty of Graduate Studies or another Faculty/College/School with limited enrolment is reviewing applications for admission into its programs.
- 2.12 Faculties/Colleges/Schools may, subject to the approval of Senate, deny access to VW for all Students enrolled in an identified academic program. Faculties/Colleges/Schools are required to notify all applicants to that program of this proscription.

Official Records

- 2.13 A Voluntary Withdrawal shall be recorded on the Student History and Official Transcript issued by the University.
- 2.14 Final grades for courses in which Students ceased attending, without an official VW, will be included on the Student History and Official Transcript issued by the University, and will be factored into the Student's Grade Point Average.

Part III

Accountability

- 3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Policy is required.
- 3.2 The Provost and Vice-President (Academic) or his/her delegate is responsible for the implementation, administration and review of this Policy.
- 3.3 All Faculty/College/School Councils and Students are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

- 4.1 The Provost and Vice-President (Academic) may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V

Review

- 5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Policy is September 1, 2026.
- 5.2 In the interim, this Policy may be revised or repealed if:
- the Provost and Vice-President (Academic) or the Approving Body deems it necessary or desirable to do so;
 - the Policy is no longer legislatively or statutorily compliant; and/or
 - the Policy is now in conflict with another Governing Document.
- 5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:
- comply with the revised Policy; or
 - are in turn repealed.

Part VI

Effect on Previous Statements

- 6.1 This Policy supersedes all of the following:
- Voluntary Withdrawal Policy, effective February 1, 1977, revised May 13, 1993, and December 7, 2005;
 - all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
 - all previous Administration Governing Documents on the subject matter contained herein.

Part VII

Cross References

- 7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:
- Authorized Withdrawal Policy;
 - Definitions of Academic Units Policy;
 - Grade Point Averages Policy; and
 - Repeated Course Policy.

Authorized Withdrawal Policy

Part I

Reason for Policy

- 1.1 The University of Manitoba provides Students with a range of course and program withdrawal options to facilitate academic progression and personal circumstances. The purpose of this Policy is to define and establish the requirements for Authorized Withdrawal at the University of Manitoba.

Part II

Policy Content

Definitions

- 2.1 The following terms have the following defined meanings for the purpose of this Policy and its Procedures:
- (a) "Authorized Withdrawal" or "AW" is an approved withdrawal from all courses in a given period for medical or compassionate reasons.
 - (b) "Calendar" means the University's official academic calendar for the Term and Level in which a course is taught.
 - (c) "College" means a Professional College as defined under the Definitions of Academic Units Policy.
 - (d) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.
 - (e) "Leave of Absence" is a period of leave, established, administered, and approved by the Faculty/College/School that enables Students to temporarily withdraw from the University.
 - (f) "Level" refers to the level of the degree in which the Student is enrolled, such as undergraduate level, graduate level or non-degree level.
 - (g) "Official Record" is a Student's complete academic history at the University of Manitoba that is maintained by the Registrar's Office. Official Records are available in the form of an Official Transcript or a Student History.
 - (h) "Official Transcript" is an official document printed on secure paper and signed by the Registrar that reflects a Student's permanent record at the University of Manitoba.
 - (i) "Policy" means this Authorized Withdrawal Policy.
 - (j) "Procedure" means the Authorized Withdrawal Procedure.
 - (k) "Registration Revision Period" is the period after the beginning of classes within which students may withdraw from a course or courses without academic or financial penalty.
 - (l) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.
 - (m) "Student" refers to any person enrolled at the University.
 - (n) "Student History" is the complete record of a Student's activity at the University, including a record of Authorized Withdrawals, produced for internal administrative use.
 - (o) "Term" is a period of time defined in the Calendar within which a course for credit may be offered, including Fall, Winter and Summer Terms.
 - (p) "University" means The University of Manitoba.
 - (q) "Voluntary Withdrawal" or "VW" is a registration option that enables students to withdraw from a course or courses after the Registration Revision Period without academic penalty.
 - (r) "Voluntary Withdrawal Period" is the period after the Registration Revision Period within which students may voluntarily withdraw from a course or courses, as outlined in section 2.6 of the Voluntary Withdrawal Policy.

General

- 2.2 An AW is to be distinguished from other withdraw options at the University, including Voluntary Withdrawal and Leaves of Absence.
- 2.3 Requests for AW must be based on medical or compassionate grounds as outlined in Section 2.2 of the Procedure.
- 2.4 Faculties/Colleges/Schools may adopt supplemental regulations, subject to approval by Senate, pertaining to AW from their programs.

Scope

- 2.5 Requests for AW will only be considered for withdrawal from all courses in a given Term, except in extraordinary circumstances.
- 2.6 Requests for AW will be considered for the currently enrolled Term and for Terms dating back no more than three academic years.
- 2.7 Withdrawal from future Terms may be subject to supplemental regulations adopted under section 2.4 of this Policy. Students considering withdrawing from the University for future terms should consult their Faculty/College/School of registration.

Part III

Accountability

- 3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Policy is required.
- 3.2 The Provost and Vice-President (Academic) or his/her delegate is responsible for the implementation, administration and review of this Policy.
- 3.3 All Faculty/College/School Councils and Students are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

- 4.1 The Provost and Vice-President (Academic) may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V

Review

- 5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Policy is September 1, 2026.
- 5.2 In the interim, this Policy may be revised or repealed if:
- (a) The Provost and Vice-President (Academic) or the Approving Body deems it necessary or desirable to do so;
 - (b) the Policy is no longer legislatively or statutorily compliant; and/or
 - (c) the Policy is now in conflict with another Governing Document.
- 5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:
- (a) comply with the revised Policy; or
 - (b) are in turn repealed.

Part VI

Effect on Previous Statements

- 6.1 This Policy supersedes all of the following:
- (a) Voluntary Withdrawal Policy, effective February 1, 1977 and revised May 13, 1993, and December 7, 2005;
 - (b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and
 - (c) all previous Administration Governing Documents on the subject matter contained herein.

Part VII

Cross References

- 7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:
- (a) Authorized Withdrawal Procedure;
 - (b) Definitions of Academic Units Policy;
 - (c) Voluntary Withdrawal Policy.

Authorized Withdrawal Procedure

Part I

Reason for Procedure

- 1.1 To outline the Procedures to be followed in order to comply with the Authorized Withdrawal Policy.

Part II

Procedural Content

- 2.1 These Procedures are to be read in conjunction with the Policy and all terms defined in the Policy shall have the same meaning in this Procedure.
- 2.2 An AW may be approved under the following circumstances:
- (a) Medical Grounds. When a serious event, including but not limited to illness, accident or injury affects a student's ability to attend classes and/or complete course requirements; and/or
 - (b) Compassionate Grounds. When an extraordinary personal circumstance, including but not limited to a serious illness or death of a significant person in a Student's life affects a Student's ability to attend classes and/or complete course requirements.
- 2.3 Ceasing to attend a class or classes will not constitute an AW. In cases

where a request for an AW is not approved, a Student will remain enrolled in, and will receive a final grade for all registered courses.

Requests for Authorized Withdrawal

2.4 Requests for AW's at the undergraduate Level must be submitted to the Dean's Office of the Faculty/College/School of registration and will be processed through the Dean's Office of the Student's Faculty/College/School of registration.

2.5 Requests for AW's at the graduate Level must be submitted to the head or graduate chair in the department in which the Student is registered, for recommendation to and approval by the Faculty of Graduate Studies.

2.6 An AW request must include the following:

(a) Official request form: The Request for an Authorized Withdrawal Form is available through the Dean's Office of the student's Faculty/College/School of registration, or from Student Advocacy.

(b) Letter of Explanation written by the student and detailing how the circumstances or symptoms affected their ability to attend classes and/or complete course requirements;

(c) Supporting documentation including but not limited to:

(i) Letters or documents from objective, credible and verifiable health care professionals. Students are encouraged to consult the Guidelines for Health Care Professionals that are available through the Office of Student Advocacy;

(ii) A funeral program and/or obituary;

(iii) A police report or auto accident report; and/or

(iv) Travel receipts (e.g., airline, rail, bus).

2.7 If an AW request is approved, a Faculty/College/School may impose conditions prior to re-enrolment including, but not limited to, meeting with an academic advisor, producing a certificate of fitness to return to studies, and/or making use of support services on campus.

2.8 In limited enrolment programs, re-enrolment following an AW may be subject to availability of space.

Responsibilities of the Student

2.9 Students are responsible for considering all implications prior to requesting an AW. Withdrawal may affect academic progression, financial aid eligibility, CIS athletic eligibility, entrance into professional programs, and/or student visa requirements.

Responsibilities of the Faculties/Colleges/Schools

2.10 Faculties/Colleges/Schools are required to consider requests for AW and to direct the Registrar's Office to process approved requests.

2.11 Faculties/Colleges/Schools are required to notify students of the outcome of their AW request in a timely manner.

2.12 Faculties/Colleges/Schools are responsible for ensuring that the receipt, storage and disposal of personal information are appropriately managed and secured under The Personal Health Information Act (PHIA), The Freedom of Information and Protection of Privacy Act (FIPPA), and the University's Access and Privacy Policy and Procedures.

2.13 Faculties/Colleges/Schools must provide an annual report on AW applications and approvals to the Provost and Vice-President (Academic).

Official Records

2.14 An AW will appear on a Student History but will not appear on Official Transcripts issued by the University.

Tuition Fee Refund

2.15 The approval of an AW request will not automatically result in a tuition fee refund. Students must apply to the Registrar's Office for a refund using the Tuition Fee Appeal Form, available at the Registrar's Office.

Appeal Process

2.16 The process for appealing an unsuccessful AW request will be subject to the policies and procedures established by the Student's Faculty/College/School of registration or enrolment.

2.17 Faculties/Colleges/Schools must disclose to the Student the length of time available to appeal an unsuccessful AW request.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Procedure is required.

3.2 The Provost and Vice-President (Academic) or his/her delegate is responsible for the implementation, administration and review of this Procedure.

3.3 All Faculty/College/School Councils and Students are responsible for complying with this Procedure.

Part IV Review

4.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Procedure is September 1, 2026.

4.2 In the interim, this Procedure may be revised or repealed if:

(a) the Provost and Vice-President (Academic), or Approving Body, deems it necessary or desirable to do so;

(b) the Procedure is no longer legislatively or statutorily compliant;

(c) the Procedure is now in conflict with another Governing Document; and/or

(d) the Parent Policy is revised or repealed.

Part V Effect on Previous Statements

5.1 This Procedure supersedes all of the following:

(a) Voluntary Withdrawal Policy, effective February 1, 1977 and revised May 13, 1993 and December 7, 2005;

(b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and

(c) all previous Administration Governing Documents on the subject matter contained herein.

Part VI Cross References

6.1 This Procedure should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

(a) Authorized Withdrawal Policy;

(b) Access and Privacy Policy and Procedure;

(c) Guidelines for Healthcare Professionals;

(d) Tuition Fee Appeal Form

Repeated Course Policy

Repeated Course Policy

Part I Reason for Policy

1.1 The purpose of this Policy is to:

(a) Articulate, on an institutional level, the rules that are to be applied when a course is repeated or its equivalent taken; and

(b) Identify the implications of repeating courses at the University.

Part II Policy Content Definitions

2.1 The following terms are defined for the purpose of this Policy:

(a) "Calendar" means the University's official academic calendar for the Term and Level in which a course is taught.

(b) "College" means a Professional College as defined under the Definitions of Academic Units Policy.

(c) "Cumulative Grade Point Average" or "CGPA" is the calculated GPA of all courses, institutional and transferred, completed at the same Level.

(d) "Degree Grade Point Average" or "DGPA" refers to the calculated GPA of all courses accepted for credit by the University towards a designated degree.

(e) "Faculty" means a Faculty as defined under the Definitions of Academic Units Policy.

(f) "Grade Point" refers to a numerical value assigned to a letter grade received in a course.

(g) "Grade Point Average" or "GPA" is the average grade of courses completed at the same Level, which is calculated by dividing the total quality points earned by the number of credit hours attempted.

(h) "Initial Registration Period" refers to the period of assigned registration times within the Calendar for new and returning Students.

(i) "Level" refers to the level of the degree in which the Student is enrolled, such as undergraduate level, graduate level or non-degree level.

(j) "Limited Access" is a registration rule that prevents Students who have previously enrolled in a course, including courses from which they VW, from registering prior to the Limited Access Registration Date.

(k) "Limited Access Registration Date" means the date, following the Initial Registration Period, upon which Students who are subject to Limited Access can register for courses.

(l) "Policy" means this Repeated Course Policy.

(m) "Procedure" or "Procedures" means a procedure approved by the Provost and Vice-President (Academic) under section 4.1 of this Policy.

(n) "Quality Points" is the grade point value of the assigned Letter Grade multiplied by the credit hours of the course.

(o) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.

(p) "Student" refers to any person enrolled at the University.

(q) "Term" is a period of time defined in the Calendar within which a course for credit may be offered, including Fall, Winter and Summer Terms.

(r) "University" means The University of Manitoba.

(s) "Voluntary Withdrawal" or "VW" is a registration option that enables Students to withdraw from a course or courses without academic penalty.

General Policy

2.2 Subject to the regulations of Faculties/Colleges/Schools, a Student may be permitted to repeat a course or its equivalent. This applies to courses that were completed with a satisfactory grade or failing grade and courses from which a Student has received a VW.

2.3 Faculties/Colleges/Schools may determine, through their respective Faculty/College/School Councils, the limits on the number of repeated courses that a Student may incur while working towards completing their degree.

2.4 Faculties/Colleges/Schools may determine, through their respective Faculty/College/School Councils, the limits of repeated courses permitted for each individual course and whether or not Students who have previously achieved satisfactory grades will be permitted to repeat a course or its equivalent.

2.5 When a Student wishes to repeat a course or to register for a course equivalent to that for which the Student has received a VW, the following rules apply:

(a) Students will be subject to Limited Access for a period of three consecutive Terms following the Term in which the course was initially completed or in which the student elected to VW;

(b) Only the attempt in which the highest grade was achieved shall be counted towards a Student's degree or diploma. Inclusion of repeated course grades in the DGPA is subject to faculty/college/school regulations; and

(c) Grades from all course completions will be used in the calculation of the CGPA, subject to the Grade Point Averages Policy.

Part III Accountability

3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Policy is required.

3.2 The Provost and Vice-President (Academic) or his/her delegate is responsible for the implementation, administration and review of this Policy.

3.3 All Faculty/College/School Councils and Students are responsible for complying with this Policy.

Part IV Authority to Approve Procedures

4.1 The Provost and Vice-President (Academic) may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V Review

5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Policy is September 1, 2026.

5.2 In the interim, this Policy may be revised or repealed if:

(a) the Provost and Vice-President (Academic) or the Approving Body deems it necessary or desirable to do so;

(b) the Policy is no longer legislatively or statutorily compliant; and/or

(c) the Policy is now in conflict with another Governing Document.

5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

(a) comply with the revised Policy; or

(b) are in turn repealed.

Part VI Effect on Previous Statements

6.1 This Policy supersedes all of the following:

(a) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and

(b) all previous Administration Governing Documents on the subject matter contained herein.

Part VII Cross References

7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

(a) College Council Bylaws

(b) Definitions of Academic Units Policy

(c) Faculty and School Council General Bylaw

(d) Grade Point Averages Policy

(e) Voluntary Withdrawal Policy

Grade Point Averages Policy

Part I Reason for Policy

1.1 The University of Manitoba articulates, on an institutional level, the rules for calculation of Grade Point Averages (GPA). The purpose of this Policy is to define and describe the manner in which GPA will be calculated and reported at the University.

Part II Policy Content Definitions

2.1 The following terms have the following defined meanings for the purpose of this Policy:

(a) "Authorized Withdrawal" or "AW" is an approved withdrawal from all courses in a given period for medical or compassionate reasons, granted in accordance with the Authorized Withdrawal Policy and Procedure.

(b) "Calendar" means the University's official academic calendar for the Term and Level in which a course is taught.

(c) "Challenge for Credit" is a process whereby students have the opportunity to demonstrate that they have acquired a command of the general subject matter, knowledge, intellectual and/or skills that would normally be found in a university-level course.

(d) "College" means a Professional College as defined under the Definitions of Academic Units Policy.

(e) "Faculty" means a Faculty as defined under the Definitions of Academic

Units Policy.

(f) "Letter of Permission" refers to a letter granting institutional permission for Students enrolled in a degree program at the University to take courses at other University-recognized colleges and universities. Courses may be considered for transfer credit provided that such courses are approved in advance by the Faculty/College/School in which the Student is registered.

(g) "Grade Point" refers to a numerical value assigned to a letter grade received in a course.

(h) "Level" refers to the level of the degree in which the Student is enrolled, such as undergraduate level, graduate level or non-degree level.

(i) "Official Record" is a Student's complete academic history at the University of Manitoba that is maintained by the Registrar's Office. Official Records are available in the form of an Official Transcript or a Student History.

(j) "Official Transcript" is an official document printed on secure paper and signed by the Registrar that reflects a Student's permanent record at the University of Manitoba.

(k) "Policy" means this Grade Point Averages Policy.

(l) "Procedure" or "Procedures" means a procedure approved by the Provost and Vice-President (Academic) under section 4.1 of this Policy.

(m) "Quality Points" is the grade point value of the assigned Letter Grade multiplied by the credit hours of the course.

(n) "School" means a "School of the University" or a "School of a Faculty", as those terms are defined under the Definitions of Academic Units Policy.

(o) "Student" refers to any person enrolled at the University.

(p) "Student Information System" is any software application that enables the University to manage Student data.

(q) "Student History" is the complete record of a Student's activity at the University, including a record of Authorized Withdrawals, produced for internal administrative use.

(r) "Term" is a period of time defined in the Calendar within which a course for credit may be offered, including Fall, Winter and Summer Terms.

(s) "University" means The University of Manitoba.

(t) "Voluntary Withdrawal" or "VW" is a registration option that enables Students to withdraw from a course or courses without academic penalty.

General

2.2 "Grade Point Average" or "GPA" is the average grade of courses completed at the same Level, which is calculated by dividing the total quality points earned by the number of credit hours attempted. This calculation can be applied to determine the following types of GPA:

(a) "Cumulative Grade Point Average" or "CGPA", which is the calculated GPA of all courses, institutional and transferred, completed at the same Level;

(b) "Degree Grade Point Average" or "DGPA", which is the calculated GPA of all courses accepted for credit by the University towards a designated degree;

(c) "Sessional Grade Point Average" or "SGPA", which is the calculated GPA of all courses completed at the same Level during the Fall and Winter Terms of one academic year; and

(d) "Term Grade Point Average" or "TGPA", which is the calculated GPA of all courses completed during a single Term at the same Level.

2.3 The following rules apply in regards to calculating GPA at the University:

(a) All standard letter grades (A+ to F) will be included in GPA calculations and will be displayed on a Student's Official Record in the Term they were completed.

(b) When a Student repeats a course or takes an equivalent course or mutually exclusive course (for example, a course that may not be held for credit with the original course), all attempts at that course shall be used in the calculation of the TGPA and CGPA. Whether or not grades for repeated courses are used toward the DGPA will be subject to Faculty policy.

(c) Grades not included in GPA calculations (for example: Pass/Fail, VW, AW) are displayed on a Student's Official Record.

(d) Courses completed from another institution by means of a Letter of Permission shall be used in the calculation of CGPA and DGPA, but shall not be used in the calculation of TGPA.

(e) Courses completed by means of Challenge for Credit shall be used in the calculation of CGPA, DGPA, and TGPA.

2.4 The University of Manitoba will report CGPA, TGPA, and DGPA for all

Students through the Student Information System.

2.5 Faculties/Colleges/Schools may use any of the GPA calculation methods to assess Student performance.

Part III

Accountability

3.1 The Office of Legal Counsel is responsible for advising the Provost and Vice-President (Academic) that a formal review of this Policy is required.

3.2 The Provost and Vice-President (Academic) or his/her delegate is responsible for the implementation, administration and review of this Policy.

3.3 All Faculty/College/School Councils and Students are responsible for complying with this Policy.

Part IV

Authority to Approve Procedures

4.1 The Provost and Vice-President (Academic) may approve Procedures, if applicable, which are secondary to and comply with this Policy.

Part V

Review

5.1 Governing Document reviews shall be conducted every ten (10) years. The next scheduled review date for this Policy is September 1, 2026.

5.2 In the interim, this Policy may be revised or repealed if:

(a) the Provost and Vice-President (Academic) or the Approving Body deems it necessary or desirable to do so;

(b) the Policy is no longer legislatively or statutorily compliant; and/or

(c) the Policy is now in conflict with another Governing Document.

5.3 If this Policy is revised or repealed all Secondary Documents, if applicable, shall be reviewed as soon as possible in order that they:

(a) comply with the revised Policy; or

(b) are in turn repealed.

Part VI

Effect on Previous Statements

6.1 This Policy supersedes all of the following:

(a) Grade Point Averages Policy, effective May 1, 2006;

(b) all previous Board of Governors/Senate Governing Documents on the subject matter contained herein; and

(c) all previous Administration Governing Documents on the subject matter contained herein.

Part VII

Cross References

7.1 This Policy should be cross referenced to the following relevant Governing Documents, legislation and/or forms:

(a) Authorized Withdrawal Policy;

(b) Definitions of Academic Units Policy;

(c) Voluntary Withdrawal Policy;

(d) Repeated Course Policy.

General Academic Regulations

Introduction

This chapter contains the regulations and requirements that apply to all students, regardless of faculty or school.

Each faculty and school has its own supplementary regulations and requirements. These are published in the faculty or school chapters of the Academic Calendar. Some faculties and schools also have additional regulations and requirements governing their programs; these are available from the faculty or school.

It is the responsibility of each student to be familiar with the academic regulations and requirements of the University of Manitoba in general and of the specific academic regulations and requirements of their faculty or school of registration. Accordingly, students are asked to seek the advice of advisors in faculty and school general offices whenever there is any question concerning how specific regulations apply to their situations.

Residence and Written English and Mathematics Requirements

1. Residence Requirements For Graduation

Each faculty and school recommends to the Senate the number of credit hours each student must complete in order to graduate from its programs. Senate also requires each student to complete a minimum number of credit hours at the University of Manitoba -- this is called the "requirement".

Unless otherwise stated in faculty and school chapters, the minimum residence requirement of the University of Manitoba is the work normally associated with one year in the case of programs of three years' duration, and two years for programs of four years' duration. Some faculties and schools may have additional residence requirements specified in their program regulations. However, in all cases, the residence requirement is assessed following an appraisal of the educational record of the student applying to transfer credits from another institution or applying to earn credits elsewhere on a letter of permission. The residence requirement is not reduced for students whose "challenge for credit" results in a passing grade.

2. University English and Mathematics Requirements for Undergraduate Students

All students are required to complete, within the first 60 credit hours of their programs, a minimum of one three credit hour course with significant content in written English, and a minimum of one three credit hour course with significant content in mathematics.

Some degree programs have designated specific written English and mathematics courses to fulfil this requirement.

Some degree programs require that the written English and/or mathematics requirements be completed prior to admission.

See the program descriptions in the faculty and school chapters of the *Academic Calendar* for details.

Exemptions to the Written English and Mathematics Requirement:

- All students with completed baccalaureate degrees and who transfer into any program to which these requirements apply.
- Registered Nurses entering the Bachelor of Nursing Program for Registered Nurses.
- Students admitted before the 1997-98 Regular Session.
- Written English exemption only: Students transferring from Université de Saint-Boniface who have completed a written French requirement (at the university) before transferring to the University of Manitoba will be deemed to have met the written English requirement.

3. Approved English and Mathematics Courses

A complete list of all courses which satisfy the university written English and mathematics requirement is provided below. (When searching for courses in Aurora, students may search Course Attributes for courses that satisfy the written English and Mathematics requirements).

| Written English Courses | |
|-------------------------|--|
| AGRI 2030 | Technical Communications (3) |
| ANTH 1520 | Critical Cultural Anthropology (3) |
| ANTH 2020 | Relatedness in a Globalizing World (3) |
| ANTH 2230 | Anthropology of Travel and Tourism (3) |
| ANTH 3330 | Sex and Sexualities (3) |
| ARTS 1110 | Introduction to University (3) |
| ASIA 1420 | Asian Civilization to 1500 (3) |
| ASIA 1430 | Asian Civilization from 1500 (3) |
| CDN 1130 | Introduction to Canadian Studies (6) |
| CATH 1190 | Introduction to Catholic Studies (3) |
| CATH 2010 | Literature and Catholic Culture 1 (3) |
| CATH 2020 | Literature and Catholic Culture 2 (3) |
| CLAS 2612 | Greek Literature in Translation (3) |
| CLAS 2622 | Latin Literature in Translation (3) |
| ENGL 0930 | English Composition (3) |
| ENGL 0940 | Writing about Literature (3) |
| ENGL 1XXX | All English courses at the 1000 level |
| ENGL 2XXX | All English courses at the 2000 level |
| ENGL 3XXX | All English courses at the 3000 level |
| ENGL 4XXX | All English courses at the 4000 level |
| ENVR 2810 | Environmental Critical Thinking and Scientific Research (3) |
| FAAH 2930 | Writing about Art (3) |
| FORS 2000 | Introductory Forensic Science |
| GEOG 2900 | Geography of Canadian Prairie Landscapes (3) |
| Erratum | *Removed Course - 09/14/2023* |
| Erratum | *Removed Course - 09/14/2023* |
| GEOG 3130 | Communication Methods in the Geological Sciences (3) |
| GMGT 1010 | Business and Society (3) |
| GMGT 2010 | Business Communications |
| GPE 2700 | Perspectives on Global Political Economy (3) |
| GRMN 1300 | Masterpieces of German Literature in English Translation (3) |
| GRMN 1310 | Love in German Culture in English Translation (3) |

| | |
|-----------|--|
| GRMN 2120 | Introduction to German Culture from 1918 to the Present (3) |
| GRMN 2130 | Introduction to German Culture from the Beginnings to 1918 (3) |
| GRMN 2500 | Special Topics in German in English Translation (3) |
| GRMN 2510 | German Fairy Tales from the Brothers Grimm to Hollywood (3) |
| HIST 1XXX | All History courses at 1000 level |
| HIST 2XXX | All History courses at 2000 level |
| Erratum | *Removed Course - 09/13/23* |
| Erratum | *Removed Course - 09/13/23* |
| HYGN 1340 | Communication (2) and |
| HNSC 2000 | Research Methods and Presentation (3) *Erratum - 09/13/23* |
| LABR 1260 | Working for a Living (3) |
| LABR 2200 | Labour History: Canada and Beyond (C) (3) |
| LABR 2300 | Workers, Employers, and the State (3) |
| LABR 4510 | Labour Studies Field Placement Seminar (3) |
| LAW 1540 | Legal Methods (5) |
| LAW 2650 | Introduction to Advocacy (4) |
| LING 2740 | Introduction to Interpretation Theory (3) |
| NATV 1200 | The Native Peoples of Canada (6) |
| NATV 1220 | The Native Peoples of Canada, Part 1 (3) |
| NATV 1240 | The Native Peoples of Canada, Part 2 (3) |
| NATV 2012 | Indigenous History in Canada (6) *Erratum - 09/13/2023* |
| NATV 2020 | The Métis of Canada (3) |
| NATV 2110 | Introduction to Aboriginal Community Development (3) |
| PHIL 2612 | A Philosophical History of Science (3) |
| PHIL 2614 | Philosophy of Science (3) |
| PHIL 2790 | Moral Philosophy (6) |
| PHIL 3220 | Feminist Philosophy (3) |
| POL 1900 | Love, Heroes and Patriotism in Contemporary Poland (3) |
| POL 2600 | Polish Culture until 1918 (3) |
| POL 2610 | Polish Culture 1918 to the present (3) |
| POLS 1502 | Introduction to Political Studies (3) |
| POLS 1506 | Survey of Political Studies (3) |
| POLS 2302 | Introduction to Political Theory (3) *Erratum 09/13/23* |
| Erratum | *Removed Course - 09/13/2023* |
| POLS 2502 | Introduction to World Affairs (3) *Erratum 09/13/23* |
| Erratum | *Removed Course - 09/13/2023* |
| POLS 2504 | Introduction to International Relations (3) *Erratum 09/13/23* |
| Erratum | *Removed Course - 09/13/2023* |
| POLS 2602 | Introduction to Comparative Politics (3) *Erratum 09/13/23* |
| Erratum | *Removed Course - 09/13/2023* |
| POLS 2702 | Introduction to Canadian Politics (3) *Erratum Aug 2023* |
| POLS 2802 | Introduction to Indigenous Politics (3) *Erratum 09/13/23* |
| POLS 2902 | How Government Works (3) *Erratum 09/13/23* |
| PSYC 2500 | Elements of Ethology (3) |
| PSYC 3200 | Thinking Critically About Psychological Research (3) |

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| PSYC 3380 | Nature, Nurture and Behaviour (3) |
| PSYC 4520 | Honours Research Seminar (6) |
| RLGN 1322 | Introduction to Eastern Religions (3) |
| RLGN 1324 | Introduction to Western Religions (3) |
| RLGN 1420 | Ethics in World Religions (3) |
| RLGN 1424 | Religion and Sexuality (3) |
| RLGN 1440 | Evil in World Religions (3) |
| RLGN 2036 | Introduction to Christianity (3) |
| RLGN 2112 | Medicine, Magic, and Miracle in the Ancient World (3) |
| RLGN 2140 | Introduction to Judaism (3) |
| RLGN 2160 | Introduction to Hebrew Scriptures (3) |
| RLGN 2170 | Introduction to the New Testament (3) |
| RLGN 2222 | The Supernatural in Popular Culture (3) |
| RLGN 2590 | Religion and Social Issues (3) |
| RLGN 2760 | Rabbinic Judaism (3) |
| RLGN 2770 | Contemporary Judaism (3) |
| RLGN 3280 | Hasidism (3) |
| RUSN 1400 | Masterpieces of Russian Literature in Translation (3) |
| RUSN 1410 | Love in Russian Culture in English Translation (3) |
| RUSN 2280 | Russian Culture until 1900 (3) |
| RUSN 2290 | Russian Culture from 1900 to the Present (3) |
| RUSN 2310 | Exploring Russia Through Film (3) |
| RUSN 2410 | Russian Literature after Stalin (3) |
| RUSN 2600 | Special Topics in Russian Culture in English Translation (3) |
| RUSN 2740 | Literature and Revolution (3) |
| RUSN 3770 | Tolstoy (3) |
| SOC 3100 | Practicum in Criminological/Sociological Research (6) |
| SOC 3350 | Feminism and Sociological Theory (3) |
| UKRN 2200 | Ukrainian Myths, Rites and Rituals (3) |
| UKRN 2410 | Ukrainian Canadian Cultural Experience (3) |
| UKRN 2590 | Ukrainian Literature and Film (3) |
| UKRN 2600 | Special Topics in Ukrainian Studies (3) |
| UKRN 2770 | Ukrainian Culture until 1900 (3) |
| UKRN 2780 | Ukrainian Culture from 1900 to the Present (3) |
| UKRN 2820 | Holodomor and Holocaust in Ukrainian Literature and Culture (3) |
| UKRN 3970 | Women and Ukrainian Literature (3) |

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| WOMN 1500 | Introduction to Women's and Gender Studies in the Humanities (3) |
| WOMN 1600 | Introduction to Women's and Gender Studies in the Social Sciences (3) |
| WOMN 2560 | Women, Science and Technology (3) |
| WOMN 3520 | Transnational Feminisms (3) |
| Mathematics Courses | |
| FA 1020 | Math in Art (3) |
| GEOG 3810 | Quantitative Research Methods in Geography (3) |
| MATH 1XXX | All Mathematics courses at the 1000 level |
| MATH 2XXX | All Mathematics courses at the 2000 level |
| MATH 3XXX | All Mathematics courses at the 3000 level |
| MATH 4XXX | All Mathematics courses at the 4000 level |
| MUSC 3230 | Acoustics of Music (3) |
| PHYS 1020 | General Physics 1 (3) |
| PHYS 1030 | General Physics 2 (3) |
| PSYC 2260 | Introduction to Research Methods (3) |
| SOC 2290 | Introduction to Research Methods (6) |
| STAT 1XXX | All Statistics courses at the 1000 level |
| STAT 2XXX | All Statistics courses at the 2000 level |
| STAT 3XXX | All Statistics courses at the 3000 level |
| STAT 4XXX | All Statistics courses at the 4000 level |

Course Identification

1. Credit Hours (Cr. Hrs.)

Each faculty and school develops courses for its degree credit programs, subject to Senate approval, and assigns a credit hour value to each course.

The credit hours for a course are expressed as a number associated with the course which indicates its relative weight. There is a correlation between class hours and credit hours (i.e. 6 credit hours = 3 hours a week, two terms; and 3 credit hours = 3 hours a week, one term).

For the purposes of registration, courses taught over both the Fall and Winter Terms have been divided into two parts. The credit hour value of the course are divided equally and applied to each part of the course. For example: for a six credit hour spanned course each of the Fall and Winter Term parts of the course will be assigned the value of three credit hours. Students registering for term spanning courses will receive one grade for the course and only when the second part is completed. The course grade will be applied to both the Fall and Winter parts of the course.

2. Prerequisite and Co-requisite Courses

Prerequisite: If a course is prerequisite for a second course, the prerequisite must be met in order to begin the second course. To determine whether or not a course has a prerequisite, see the course descriptions in the chapter of the faculty or school offering the course. Normally, a minimum grade of "C" is required in all courses listed as prerequisites, except as otherwise noted in the course descriptions.

For some courses, the prerequisite may be completed before registering for the second course or may be taken concurrently with the second course. To determine if a course may be taken concurrently, see the course descriptions in the chapter of the faculty or school offering the course.

Co-requisite: If a first course is a co-requisite for a second course, the first course **must** be completed in the same term as the second course. To determine if a course has a co-requisite, see the course descriptions in the chapter of the faculty or school offering the course.

3. Course Numbers

3.1 First Two to Four Characters

The two, three or four characters in every course number are a shortened version of the subject of the course.

3.2 Last Four Digits

At the University of Manitoba the last four digits of the course number reflect the level of contact with the subject.

For example:

ECON 1220 Principles of Economics Cr. Hrs. 6

ECON is the code for Economics.

1220 indicates that it is an introductory or entry level course.

If the course requires a laboratory, this will be shown following the credit hours immediately following the title.

For example:

BIOL 3242 Biodiversity: Vascular Flora of Manitoba Cr. Hrs. 3 (Lab Required)

The 2000, 3000, 4000 course numbers indicate the second, third, and fourth levels of university contact with a subject.

Numbers in the 5000 range are normally associated with pre-Master's work or courses in the Post Baccalaureate Diploma and the Post-Graduate Medical Education programs.

Courses numbered 6000-8000 are graduate courses of the Faculty of Graduate Studies.

Course numbers in the 9000 series are used to identify courses taken at the University of Winnipeg by students in the University of Manitoba/University of Winnipeg Joint Master's Programs. The 9000 numbers do not indicate the level of the course taken (see *Graduate Calendar* or University of Winnipeg Calendar).

In most cases, some correlation exists between the course number and a student's year of study; that is, students in the third year of a program will generally carry course loads comprised primarily of 3000-level courses.

3.3 Other course numbering information

Courses with numbers that end in 0 or an even number are taught in English, most of which are offered on the Fort Garry or Bannatyne campuses or through Distance and Online Education.

Courses with numbers that end in odd numbers are taught in French at [Université de Saint-Boniface](#).

Grades and Grade Point Average Calculation

Introduction

Final grades in most courses are expressed as letters, ranging from F, to A+ the highest. A grade of D is the lowest passing grade, however the minimum grade required to use a course as credit toward a degree or diploma program may be set higher by a faculty or school. Refer to faculty and school regulations. Each letter grade has an assigned numerical value which is used to calculate grade point averages. Grading scales used to determine the final letter grade may vary between courses and programs.

Some courses are graded on a pass/fail basis and because no numerical value is assigned to these courses, they do not affect grade point averages. Courses graded in this way are clearly identified in course descriptions and program outlines.

1. The Letter Grade System

| Letter Grade | Grade Point Value | |
|--------------|-------------------|--------------|
| A+ | 4.5 | Exceptional |
| A | 4.0 | Excellent |
| B+ | 3.5 | Very Good |
| B | 3.0 | Good |
| C+ | 2.5 | Satisfactory |
| C | 2.0 | Adequate |
| D | 1.0 | Marginal |
| F | 0 | Failure |
| P | | Pass |
| S | | Standing |

The grade of "D" is regarded as marginal in most courses by all faculties and schools. It contributes to decreasing a term, degree or cumulative Grade Point Average to less than 2.0. Courses graded "D" may be repeated for the purpose of improving a GPA. Note that some faculties and schools consider a grade of "D" as unacceptable and will not apply the course toward the program as credit. In most cases the course will need to be repeated to attain the acceptable grade. Refer to faculty and school regulations.

2. Calculation of Grade Point Average

The University of Manitoba will report cumulative and term grade point averages for all students through Aurora Student.

Please also refer to the Grade Point Averages Policy found in the University Policies section of the Academic Calendar.

2.1 Quality Points

The quality points for a course are the product of the credit hours for the course and the grade point obtained by the student; e.g., 3 credit hours with a grade of "B" (3.0 points) = 3 credit hours x 3.0 = 9.0 quality points.

2.2 Quality Point Total

The quality point total is the sum of quality points accumulated as students proceed through their program of studies.

2.3 Grade Point Average (GPA)

The grade point average (GPA) is the quality point total divided by the total number of credit hours.

Example:

| Course | Credit Hours | Grade | Grade Points | Quality Points |
|---------------|--------------|-------|--------------|----------------|
| Course 1 | 3 | B | 3 | 9 |
| Course 2 | 3 | B+ | 3.5 | 10.5 |
| Course 3 | 3 | C+ | 2.5 | 7.5 |
| Course 4 | 3 | B | 3 | 9 |
| Course 5 | 3 | A | 4 | 12 |
| Totals | 15 | | | 48 |

Grade point average: 240 Quality Points / 15 Credit Hours = 3.20

3. Poor grades and program progression

A course in which a "D" standing is obtained may need to be repeated by probationary students in certain faculties or where a minimum grade of "C" is required in a prerequisite subject or to meet degree requirements.

Students in doubt as to the status of their record should consult an advisor in their faculty or school.

For minimum grade levels, especially as they affect progression requirements, see the faculty or school regulations in the *Academic Calendar* or consult an advisor.

4. Academic Honours

Students qualify for the Honour List (Dean's, Director's, University 1) when they achieve qualifying grade point averages, as specified by the faculty/school or program regulations.

In addition, outstanding academic achievement will qualify students for other honours and awards. These include:

- the University Gold Medal, which is awarded at graduation in each faculty or school to the student with the most outstanding academic record;
- program medals, which are awarded by faculties and schools to the best student graduating from a specific program;
- graduation "with distinction", which is recorded on the transcripts of all students who attain a qualifying grade point average;
- and other medals and prizes that are specific to programs or disciplines.

Academic Evaluation

1. Methods of Evaluation

Students shall be informed of the method of evaluation to be used in each course, as specified in the Responsibilities of Academic Staff with Regard to Students Policy, found in the University Policies section of the *Academic Calendar*.

In departments where a course is offered in more than one section, the department offering the course endeavours to provide instruction so that all sections cover similar topics and that all students achieve a similar level of competency in the topic. However, there will be differences in evaluation as well as in teaching style, readings and assignments from one section to another. Students may contact the department for additional information before registration.

1.1 Credit for Term Work

In subjects involving written examinations, laboratories, and term assignments, a student may be required to pass each component separately. If no final examination is scheduled in a course, the student's final grade will be determined on the basis of the method of evaluation as announced in the first week of lectures.

If credit is not given for term work, the student's final grade will be determined entirely by the results of the final written examination. Where the final grade is determined from the results of both term work and final examinations, the method of computing the final grade will be as announced within the first week of classes. Should a student write a deferred examination, term grades earned will normally be taken into account as set out in the immediately preceding paragraph.

1.2 Repeating a Course

A course in which a "D" standing is obtained may need to be repeated by probationary students in certain faculties or where a minimum grade of "C" is required in a prerequisite subject or to meet degree requirements.

Elective courses graded "F" may either be repeated or another elective substituted. All electives in a program must be approved by the faculty or school.

1.3 Probation and Academic Suspension

Failure to meet minimum levels of performance as specified in the regulations of the faculty or school will result in a student being placed either on probation or academic suspension in accordance with the faculty or school regulations.

A student's status is determined, following final examinations, at the end of each term (Fall, Winter or Summer terms) or at the end of an academic session as specified in faculty regulations. A student placed on probation is advised to discuss his/her program prior to the next registration with a representative of the dean or director to determine which courses, if any, should be repeated.

A student placed on academic suspension will normally be permitted to apply for re-entry to the faculty or school after one year has elapsed, but reinstatement is not automatic and individual faculty or school regulations must always be consulted.

While on suspension, students are not normally admissible to another faculty or school.

2. Other Forms of Earning Degree Credit

2.1 Letter of Permission for Transfer of Credit

Students in degree programs at this university may take courses at other recognized colleges or universities for transfer of credit provided such courses are approved at least one month prior to the commencement of classes at the other institution by the faculty or school in which they are currently registered. The approval is subject to individual faculty/school regulations and is granted in the form of a Letter of Permission. The student must obtain a Letter of Permission whether or not the course/s being taken are for transfer of credit to the University of Manitoba. Failure to obtain a Letter of Permission may have serious academic implications.

To obtain a Letter of Permission, application must be made to the Registrar's Office as early as possible and at least one month prior to when required at the other institution.

Each application must be accompanied by the appropriate fee. The fees are for each application and a separate application is required for each session and institution regardless of the number of courses being considered. Students planning to seek permission to take courses elsewhere for transfer of credit to the University of Manitoba are cautioned to check the current *Academic Calendar* for the residence and degree requirements of the degree programs in which they are enrolled.

Transferred courses will be given assigned credit hour values and grades. The transferred grade will be included in the student's degree and cumulative GPA.

2.2 Challenge for Credit

The purpose of Challenge for Credit is to provide students of the university with some means of obtaining academic credit in University of Manitoba courses (not otherwise obtainable as a transfer of credit from other institutions) for practical training and experience, or reading and study previously completed. Students who have registered to challenge would normally not attend classes or laboratories. Courses which have previously been taken at the University of Manitoba may not be challenged for credit.

To be eligible to challenge for credit a student must first be admitted to a faculty or school of the University of Manitoba. Eligible students will be required to demonstrate their competence in the courses which they are challenging for credit. Where formal, written examinations are required, these will be generally scheduled during the regular examination sessions in April/May, June, August, or December.

For information regarding requirements, procedures, applications and fees a student should contact the office of the faculty or school in which the student is enrolled, or in the case of new students, the faculty or school to which the new student has been admitted.

2.3 Application of Course Credit when transferring between Programs within the University of Manitoba

When students transfer into program from another faculty or school within the University of Manitoba, some course credits previously earned may be applied to the new program. The credit hour value assigned by the faculty or school that offers the course is used. That is, there can only be one credit weight designated for a course with a particular course number.

3. Academic Appeals

With the exception of decisions on admissions or disciplinary matters, all academic appeals from decisions of faculty or school appeals committees at the University of Manitoba or by the Comitée d'appels at Université de Saint-Boniface shall be heard by the Senate Appeals Committee regardless of the institute of registration of the student concerned.

The complete terms of reference for the Senate Committee on Appeals as well as an Appeal Form may be obtained from the Office of the University Secretary, 312 Administration Building or Student Advocacy/Student Resource Services, 519 University Centre.

Final Examinations

These regulations expand on the Final Examinations Policy and Procedures found in the University Policies section of this publication.

1. General Examination Regulations

Students (with the exception of students auditing courses) are required to write all final examinations. Those who absent themselves without an acceptable reason will receive a grade classification of "NP" (No Paper) accompanied by a letter grade based on term work completed, using a zero value for incomplete term work and for the final examination. If no credit for term work is involved, a grade of "F" will be assigned. Under certain conditions a student may apply for a deferred examination; see Deferred and Supplemental Examinations.

2. Examination Schedules

For most faculties, schools and colleges, final examinations are normally conducted in December for Fall Term courses; in April/May for Winter Term and Fall/Winter Term spanned courses; and in August for Distance and Online Education Summer Term courses. Exact dates for the exam period can be found in the Academic Schedule.

The Schedule of Final Exams for Fall and Winter is made available by the Registrar's Office approximately one month after the beginning of the term. This schedule is made available on the Registrar's Office Website (umanitoba.ca/registrar) and includes finalized dates and times for each exam. Exam locations are added to the schedule at a later date. Summer Term courses, final exam details will be made available at the time of registration.

Students must remain available until all examination and test obligations have been fulfilled. Travel plans are not an acceptable reason for missing an exam.

3. Writing Examinations Off-Campus-Distance and Online Education courses only

For Distance and Online Education courses, students may request to write their exams outside of Winnipeg, at an approved centre. These requests are made to the Off Campus Exam Coordinator in the Centre for the Advancement of Teaching and Learning.

4. Examination Personations

A student who arranges for another individual to undertake or write any nature of examination for and on his/her behalf, as well as the individual who undertakes or writes the examination, will be subject to discipline under the university's Student Discipline Bylaw, which could lead to suspension or expulsion from the university. In addition, the Canadian Criminal Code treats the personation of a candidate at a competitive or qualifying examination held at a university as an offence punishable by summary conviction.

Deferred and Supplemental Examinations

These regulations expand on the Deferred and Supplemental Examinations Procedures found in the University Policies section of this publication.

1. Accepting Standing in Course without Examination

In the event that a student is unable to write a deferred examination as it has been scheduled, a grade may be assigned without examination (see Section 2.9 of the Deferred and Supplemental Examinations Procedures). A student who accepts standing in a course without examination may not, at a later date, request permission to write a deferred examination in the course.

2. Supplemental Examinations

Supplemental Examinations are offered by some faculties to students who have not achieved the minimum result in required courses.

Students who are granted supplemental privileges are normally required to sit the examination within thirty (30) working days from the end of the examination series in which the supplemental grade was received, unless the progression rules of a faculty or school require the successful completion of an entire academic year before a student is eligible to proceed into the next. In this case, students are obliged to sit the examination at the next ensuing examination period.

Appeals of Grades

These regulations expand on the Final Grades Procedures found in the University Policies section of this publication.

1. Appeal of Term Work

Students may formally appeal a grade received for term work provided that the matter has been discussed with the instructor in the first instance in an attempt to resolve the issue without the need of formal appeal. Term work grades normally may be appealed up to ten (10) working days after the grades for the term work have been made available to the student.

The fee which is charged for each appealed term work grade will be refunded for any grade which is changed as a result of the appeal.

2. Appeal of Final Grades

Final grades are not released to students who are on "Hold Status"; the deadline for appeal of assigned grades will not be extended for students who were unable to access their final grades due to a hold.

Attendance and Withdrawal

1. Attendance at Class and Debarment

Regular attendance is expected of all students in all courses.

An instructor may initiate procedures to debar a student from attending classes and from final examinations and/or from receiving credit where unexcused absences exceed those permitted by the faculty or school regulations.

A student may be debarred from class, laboratories, and examinations by action of the dean/director for persistent non-attendance, failure to produce assignments to the satisfaction of the instructor, and/or unsafe

clinical practice or practicum. Students so debarred will have failed that course.

2. Withdrawal from Courses and Programs

2.1 Voluntary Withdrawal

The registration revision period extends two weeks from the first day of classes in both Fall and Winter terms. Courses dropped during this period shall not be regarded as withdrawals and shall not be recorded on official transcripts or student histories. The revision period is prorated for Summer terms and for parts of term.

After the registration revision period ends, voluntary withdrawals (VWs) will be recorded on official transcripts and student histories.

The following dates are deadlines for voluntary withdrawals:

- The Voluntary Withdrawal deadline shall be the 48th teaching day in both Fall and Winter term for those half-courses taught over the whole of each term;
- The Voluntary Withdrawal deadline for full-courses taught over both Fall and Winter term shall be the 48th teaching day of the Winter term; and
- The Voluntary Withdrawal deadline for full-and-half courses taught during Summer terms or during some other special schedule shall be calculated in a similar manner using a pro-rated number of teaching days.

The exact Voluntary Withdrawal dates that apply to courses offered in the current academic session are published in the Academic Schedule.

2.2 Authorized Withdrawal

Subject to the provision of satisfactory documentation to the faculty of registration, Authorized Withdrawals (AWs) may be permitted on medical or compassionate grounds.

2.3 Required Withdrawal from Professional Programs

Senate, at the request of some faculties and schools, has approved bylaws granting them the authority to require a student to withdraw on the basis of unsuitability for the practice of the profession to which the program of study leads.

This right may be exercised at any time throughout the academic year or following the results of examinations at the end of every year.

This right to require a student to withdraw prevails notwithstanding any other provisions in the academic regulations of the particular faculty or school regarding eligibility to proceed or repeat.

Where Senate has approved such a bylaw, that fact is indicated in the *Academic Calendar* chapter for that faculty or school. A copy of the professional unsuitability bylaw may be obtained from the general office of the faculty or school.

Academic Integrity

The University of Manitoba takes academic integrity seriously. As a member of the International Centre for Academic Integrity, the University defines academic integrity as a commitment to six fundamental values: honesty, trust, fairness, respect, responsibility and courage. (International Centre for Academic Integrity, 2014)

To help students understand the expectations of the University of Manitoba, definitions for the types of prohibited behaviours are in the Student Academic Misconduct Procedure and provided below.

"Academic Misconduct" means any conduct that has, or might reasonably be seen to have, an adverse effect on the academic integrity of the University, including but not limited to:

- (a) Plagiarism – the presentation or use of information, ideas, images, sentences, findings, etc. as one's own without appropriate attribution in a written assignment, test or final examination.
- (b) Cheating on Quizzes, Tests, or Final Examinations – the circumventing of fair testing procedures or contravention of exam regulations. Such acts may be premeditated/planned or may be unintentional or opportunistic.
- (c) Inappropriate Collaboration – when a student and any other person work together on assignments, projects, tests, labs or other work unless authorized by the course instructor.
- (d) Duplicate Submission – cheating where a student submits a paper/assignment/test in full or in part, for more than one course without the permission of the course instructor.
- (e) Personation – writing an assignment, lab, test, or examination for another student, or the unauthorized use of another person's signature or identification in order to impersonate someone else. Personation includes both the personator and the person initiating the personation.
- (f) Academic Fraud – falsification of data or official documents as well as the falsification of medical or compassionate circumstances/documentation to gain accommodations to complete assignments, tests or examinations.

Note that the above applies to written, visual, and spatial assignments as well as oral presentations.

Over the course of your university studies, you may find yourself in situations that can make the application of these definitions unclear. The University of Manitoba wants to help you be successful, and this includes providing you with the knowledge and tools to support your decisions to act with integrity. There are a number of people and places on campus that will help you understand the rules and how they apply to your academic work. If you have questions or are uncertain about what is expected of you in your courses, you have several options:

- Ask your professor, instructor, or teaching assistant for assistance or clarification.
- Get support from the Academic Learning Centre or Libraries:
- Visit the Academic Integrity site for information and tools to help you understand academic integrity.
- Make an appointment with the Student Advocacy office. This office assists students to understand their rights and responsibilities and provides support to students who have received an allegation of academic misconduct.

Graduation and Convocation

1. Graduation

Students may graduate from the University of Manitoba in May/June, October, and February of each year. (Convocation ceremonies are held in May/June and October only).

Students are eligible to graduate when they have completed all of the requirements for their degree program in accordance with the regulations described in the chapter General Academic Regulations and the regulations available from the general offices of their faculties and schools.

It is the responsibility of each student to be familiar with the graduation requirements of the program in which they are enrolled. Consultation with academic advisors is advised to ensure that graduation requirements are met.

Please refer to the Registrar's Office website umanitoba.ca/student/records/registration/

(Visit the [Graduation and Convocation](#) page for answers to frequently asked questions about Graduation).

2. Application for Graduation

Every candidate for a degree, diploma or certificate must make formal application at the beginning of the session in which he/she expects to complete graduation requirements.

Application is to be made through Aurora Student. (Log into Aurora Student; click Enrolment and Academic Records, then Declarations, then Declare Graduation Date.)

3. Changing a Graduation Date

If you need to change your graduation date after you have made your declaration, you must contact the general office of your faculty, college, or school as soon as possible.

4. Receipt of Information about Graduation

After you have declared your graduation, you will be sent a series of e-mails to your University e-mail account, requesting you to verify your full legal name, asking you about your attendance at convocation, providing convocation information, and so on. **It is imperative that you activate your University of Manitoba email account and check it regularly.**

5. Convocation

Convocation ceremonies are held in May/June and October of each year.

February graduates are invited to attend the May/June ceremonies.

Graduating students are encouraged to attend with their families and friends because it is the one ceremonial occasion that marks the successful conclusion of their program of studies.

Graduates who wish to attend Convocation, verify their attendance at the Convocation ceremony by reserving their academic attire through the University approved supplier.

Students who, for any reason, do not attend Convocation will receive their degrees in absentia.

The Registrar's Office will hold unclaimed parchments for a maximum of twelve months after graduation when any unclaimed parchments will be destroyed. These will include those not given at Convocation, those that were to be picked up in person but not claimed, those that were mailed but returned to the Registrar's Office by the postal outlet or courier depot, those that were not issued due to a financial hold on a student's records, and those that were reprinted immediately after convocation due to corrections.

It is critical that you update your address, phone number and email through Aurora whenever changes occur. Note that any changes made with the Alumni Association are not reflected in your University of Manitoba student records.

If you do not receive your parchment, it is your responsibility to follow up with the Registrar's Office within a twelve-month period. Any requests for parchments after this time will be processed as replacements; there is a fee charged for replacement parchments

5.1 Academic Dress

Students are responsible for making arrangements to reserve their academic attire through the University approved supplier. Rental fees apply. Details will be provided via e-mail.

5.2 Convocation Information

Information on Convocation may be found on the [Graduation/Convocation website](#)

Personal Information

1. Mailing Address

In order to receive University mail, it is essential that you to provide the Registrar's Office with your current address. All mail will be directed to the address you provide. You may change your mailing address and phone number by accessing Aurora Student and then selecting Personal Information.

2. Change of Name

If you have changed your name since you were first admitted or if the name on your record is incomplete or inaccurate, official evidence of the name change or correction must be submitted to the Registrar's Office along with a completed Request for [Change of Name form](#). The University of Manitoba uses your **full legal name** on its records, transcripts, and graduation documents (a full legal name, for example, includes all names on your birth certificate - first, middle, and last - or on your study permit). Abbreviated names, Anglicized names, or initials should not be used unless they have been proven with appropriate documentation.

Admissions

SECTION 1: Welcome

You are joining a vibrant community of over 29,000 students and 8,000 academic and support staff members that emphasizes excellence in teaching, learning, and research.

The University of Manitoba is a community of people who study, teach, conduct research, and create music and art, and whose ideas and accomplishments have an impact on our society and culture both here in Manitoba and in the wider world.

The University of Manitoba is the province's largest university and the first to be established in western Canada.

The majority of new University of Manitoba students will enter University 1, an innovative program that was specially designed to provide choice and flexibility. University 1 gives you the opportunity to begin your university studies with a year of personal and academic exploration. Advisors are available to provide academic advice and assistance. During the campus wide orientation that begins your first academic year, you will be introduced to the wide range of campus support services that can help you with all aspects of student life.

If you are joining the University of Manitoba after completing some college or university courses at another institution, you are equally welcome as you continue your studies.

This document, the *Undergraduate Calendar*, provides the basic information on admission requirements. More specific information on admission requirements and the application process can be found in the applications themselves and their accompanying guides and/or bulletins. These can be downloaded from our website at umanitoba.ca/admissions. In addition, there are advisors in the general offices of all academic units who are ready to answer your questions and to help you understand policies and regulations that affect you.

Again, welcome to the University of Manitoba. You are joining a large community of students and scholars, and when you graduate you will be joining an even larger community of graduates.

The University of Manitoba is honored to provide you with your education.

SECTION 2: An Overview of Undergraduate Admissions

The twenty-two faculties and schools of the University of Manitoba offer over 60 different undergraduate programs. Some of these programs are open to high school graduates, or to mature status applicants, while others require a year or more of university-level studies as preparation for admission.

There are several programs that offer direct entry options for qualified high school graduates, see [Section 3: Direct Entry Options](#) for the list of these programs. The majority of high school students applying to the University of Manitoba choose University 1, a first year program designed to provide a foundation for studies in Arts, Science, and the professional disciplines.

Many programs offer only an 'advanced entry' option and accept applications from students who have completed a year or more in university-level studies, either in University 1 (or another program at the University of Manitoba) or at another recognized university or college. These programs are listed in [Section 4: Advanced Entry Options](#).

The programs offering the 'direct entry' option also offer an 'advanced entry' option for students who wish to start in University 1 and then select their degree program in second year.

In addition, students can also apply as Auditing, Visiting, or Special Students (see [Section 5: Other Admission Categories](#)). Usually students in these applicant categories will apply to General Studies (Extended Education) where they can take degree credit courses in a variety of disciplines to meet entrance requirements for a future degree application or to meet career development and personal goals.

The main criterion for admission for direct and advanced entry programs is the scholastic achievement of the student. In instances such as the Marcel A. Desautels Faculty of Music and the School of Art, additional criteria designed to assess the student's suitability for education are applied.

Most faculties and schools in the University of Manitoba have enrolment limitations, and a process of selection is applied by the university. In some programs the number of students applying for admission greatly exceeds the number which the university is able to admit. Selection, therefore, is based upon scholastic achievement and suitability for the discipline. In some faculties and schools first consideration is given to residents of Manitoba who are Canadian Citizens or Permanent Residents. A limited number of places may be assigned to Canadian Citizens or Permanent Residents who are resident outside Manitoba or to those who are not Canadian Citizens/Permanent Residents. [Booth University College](#) (approved teaching centre) and [Université de Saint-Boniface](#) (an affiliated college) are not limited in their enrolment, and interested students are directed to those institutions for information.

Many of the first-year level courses in mathematics and the sciences at the University of Manitoba will have high school subject prerequisites. These prerequisites are listed in the course descriptions sections of this calendar.

All applicants whose primary language is not English must fulfil the English language proficiency requirements described in [Section 8: English Language Proficiency](#).

SECTION 3: Direct Entry Options

Comprehensive information on the entrance requirements, application process, and deadlines for each of these programs is found at www.umanitoba.ca/admissions.

The following faculties and schools offer direct entry programs which accept students graduating from Manitoba high schools (or the equivalent in other provinces/countries):

University 1
 Faculty of Agricultural & Food Sciences (degree programs)
 Faculty of Agricultural & Food Sciences (diploma program)
 Faculty of Arts
 School of Art (Fine Arts studio degree programs)
 School of Art (Fine Arts diploma program)
 Asper School of Business
 School of Dental Hygiene
 Faculty of Engineering
 Clayton H. Riddell Faculty of Environment, Earth, & Resources
 Faculty of Kinesiology & Recreation Management (except Athletic Therapy)
 Faculty of Health Sciences (Interdisciplinary Health)

Max Rady College of Medicine (Family Social Sciences)
 Marcel A. Desautels Faculty of Music
 Faculty of Science

Students applying from high school to a direct entry program must meet two levels of requirements:

- The general entrance requirements
- The specific subject and performance requirements of the program for which admission is sought.

Some University of Manitoba undergraduate courses, particularly mathematics and science courses, will have specific high school courses as prerequisites to register in these courses. These prerequisites may not be required for admission to the direct entry program, but are required for course registration. If students have not completed the necessary high school courses, they can complete a preparatory upgrading course at U of M. See our website for listings of these high school prerequisites.

These programs also accept transfer students; see Section 4: Advanced Entry Options.

3.1 General Entrance Requirements

3.1.1 Manitoba High School Students - General Entrance Requirements

Applicants must present Manitoba high school graduation, with five full credits at the Grade 12 level, in courses designated S (Specialized), G (General), or U (Dual Credit – University), and with a minimum of three of these credits in S or U courses. Manitoba and northwest Ontario (Thunder Bay and west) high school students will be selected on the basis of an average calculated on three courses specified by each faculty or school. Although the remaining courses offered will not be used in the computation of the average, each must bear at least a passing grade.

3.1.2 Other Canadian High School Students - General Entrance Requirements

The following certificates are usually accepted as equivalent to Manitoba high school standing and will, therefore, meet the university's general entrance requirements for students from that region.

Alberta: High school graduation with a minimum overall average of 60 percent on five acceptable Grade 12 credits .

British Columbia: High school graduation with a minimum average of 60 percent or better over four acceptable Grade 12 credits.

New Brunswick: High school graduation with a minimum average of 60 percent over six acceptable Grade 12 credits.

Newfoundland: High school graduation with a minimum average of 60 percent over ten acceptable Grade 12 credits.

Northwest Territories: High school graduation with a minimum average of 60 percent over five acceptable Grade 12 credits.

Nova Scotia: High school graduation with a minimum average of 60 percent over five acceptable Grade 12 credits.

Nunavut: High school graduation with a minimum average of 60 percent over five acceptable Grade 12 credits.

Ontario: High school graduation with a minimum average of 60 percent over six Grade 12 U or M courses.

Prince Edward Island: High school graduation with a minimum average of 60 percent in a university entrance program.

Quebec: First-year CEGEP with satisfactory standing (normally a GPA of 2.0 or better or 65 percent or better).

Saskatchewan: High school graduation with a minimum average of 65 percent on seven acceptable Grade 12 credits.

Yukon Territory: High school graduation with a minimum average of 60 percent or better over four acceptable Grade 12 credits.

3.1.3 Countries and Regions outside Canada - General Entrance Requirements

The following certificates are usually accepted as equivalent to Manitoba high school standing and will, therefore, meet the university's general entrance requirements for students from that region.

Please see

www.umanitoba.ca/student/admissions/international/international-program-requirements.html for additional listings.

British-patterned education: (United Kingdom and most Commonwealth countries except as noted separately below) General Certificate of Education, with two subjects at Advanced Level and three at Ordinary Level, or three subjects at Advanced Level and one at the Ordinary Level, with a C overall average; no subject accepted below a D grade. Acceptable alternative: U.K. Higher National Diploma or Certificate.

French-patterned education: (Algeria, Cote d'Ivoire, Cambodia, France, French Guinea, Haiti, Laos, Morocco) Diplôme de Bachelier de l'Enseignement du Second Degré (Baccalauréat Parts I and II)

Latin America: (Costa Rica, Guatemala, Honduras, Nicaragua, Peru, Venezuela: all others see individual listings below) first year at a recognized university in the same country

Middle East: (Bahrain, Iran, Iraq, Jordan, Kuwait, Libya, Oman, Qatar, Saudi Arabia, Syria, Sudan, United Arab Emirates, Yemen): all others see individual listing below: national secondary school certificate

Russian-patterned education: (Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan, Uzbekistan) Attestat o Srednem (Polnom) Certificate and complete General Secondary Education

Yugoslavian-patterned education: (Bosnia-Herzegovina, Croatia, Macedonia, Serbia, Slovenia, Yugoslavia) Matura/Secondary School Leaving Diploma

Argentina: Bachillerato or Bachillerato Especializada with a minimum 6 average or the examination Ciclo Basico Comun with a 5 average

Australia: matriculation as defined by the home state university

Bangladesh: Higher Secondary Certificate (HSC) in at least the second division

Brazil: Certificado de Conclusão de Grau or a Diploma de Técnico de Nível Médio with a minimum 6.5 average or the examination Concurso Vestibular with a minimum 5 average

China: Senior Middle School Diploma

Czech Republic: Maturitní Zkouška (Maturita)

El Salvador: Bachillerato in the academic specializations only with a minimum 6.5

Ethiopia: first year standing at a recognized university in the same country

Germany: Reifezeugnis

Greece: Apolytirion

Hong Kong: HKDSE/HKCEE Diploma, with at least two HKALE level subjects and three HKCEE level subjects with a minimum overall average of a 'C' and no grade below a 'D'. Two HKASLE level subjects will be held equivalent to one HKALE level subject.

India: second division or higher in one of: All-Indian Senior School Certificate, Higher Secondary Certificate (Pre-Degree, Pre-Professional or Pre-University), Intermediate Certificate, Higher Secondary Certificate Part 2

Indonesia: Sekolah Menengah Uman (S.M.U.)

Ireland: (Republic of) Leaving Certificate

Israel: Bagrut Certificate

Italy: Maturita Classica Diploma or Maturita Scientifica Diploma

Japan: Upper Secondary School Diploma

Kenya: Kenya Certificate of Secondary Education (KCSE)

Malaysia: Sijil Tinggi Persekolahan Malaysia (STPM) or MICSS Unified Examination Certificate (UEC)

Mexico: Bachillerato certificate with a minimum 7.0 average

Nigeria: Senior School Certificate with WAEC results

Pakistan: Higher Secondary School Certificate (HSC) in at least the second division

Philippines: first year standing at a recognized institution of higher learning

Poland: Maturity/Swiadectwo Dojrzalosci Certificate

Portugal: first year standing at a recognized university in the same country

Singapore: Government Higher School Certificate (Chinese) with two subjects at the Principal Level and three subjects at the Subsidiary Level

Slovak Republic: Maturity Certificate (Maturitnej Skuske)

Somalia: First year university standing

South Korea: Academic Upper Secondary School Certificate (Immumgye Kodung Hakkyo Choeupchang)

Spain: Titulo de Bachillerato or University Orientation Year

Taiwan: Senior High School Leaving Certificate

Thailand: Mathayom /Maw 6

Ukraine: Atestat pro Povnu Zagalnu Sersdniu Osvitu (Grade 12)

United States of America (and Puerto Rico): complete Grade 12 with a minimum average of C or better on a minimum of five academic Grade 12 subjects

Not Acceptable: The following qualifications by themselves are not acceptable as a basis of admission: GCE (O) levels only; West African School Certificate; Hong Kong Certificate of Education; Ordinary Diploma and Technician Diploma; Malaysian Technical Diploma; U.K. City and Guilds Certificate; U.K. College of Preceptors Licentiate; U.K. Ordinary National Certificate or Diploma; West Indies CXC.

Graduates from international schools overseas will be considered for admission only if they are eligible for admission to a major university of their country of citizenship; or they have successfully completed an internationally examined curriculum such as the GCE or IB diploma, or they have successfully completed the formal graduation requirements of a Canadian provincial ministry of education in an approved institution. (See 3.1.2 for minimum requirements)

3.1.4 International Baccalaureate Students - General Entrance Requirements

To meet the General Requirements, an I.B. student must present three courses at the Higher Level and three courses at the Standard Level, with a minimum score in each subject of four and an overall minimum score of 24. Credit may be granted for selected Higher and/or Standard Level courses with minimum scores of four in specific subject areas; see 6.1 Advanced Standing for High School Students.

3.1.5 Home Schooled Applicants

Home schooled applicants will be considered for admission for University 1 on an individual basis. Contact the Admissions Office for additional information.

3.1.6 Mature Student Status

Mature student status is granted to one who:

- Does not meet the normal entrance requirements;
- Is at least 21 years of age (before May 1 for admission to classes beginning in May; before July 1 for classes beginning in July; before September 30 for the Fall term; and before January 31 for the Winter term, and,
- Is either a Canadian citizen, or a Permanent Resident of Canada.

Mature status students may apply to any of the following direct entry programs: University 1, Engineering, Fine Arts (diploma program), and Music. Members of the Canadian Military are also eligible to apply to General Studies (Extended Education), the Clayton H. Riddell Faculty of Environment, Earth, & Resources, and the Faculties of Arts and Science as mature students. Applicants to Engineering are required to meet the specific high subject requirements of that Faculty, i.e. a minimum of 60% in each of Chemistry 40S, Pre-Calculus Math 40S, and Physics 40S (or the equivalent) plus a minimum 85% average over these subjects.

Applicants who have completed 24 credit hours or more of course work at another post-secondary institution are not normally eligible for mature student status admission. These applicants should apply to one of the 'advanced entry' programs.

Applicants who do not qualify for consideration for admission under the mature status requirements must meet the regular high school entrance requirements applicable to their chosen faculty or school.

Applicants seeking admission under mature student status are encouraged to seek further information from the Admissions Office.

3.2 Specific Subject Requirements and Performance Levels for Admission to Direct Entry Options

In addition to the General Entrance Requirements listed above by Geographic region, applicants must meet the Specific Subject Requirements for their selected program. The requirements are listed for Manitoba high school students, the equivalent from other provinces and countries are acceptable.

Should the number of qualified applicants exceed the number of available positions, the strongest candidates will be selected.

3.2.1 University I

General Entrance Requirements as listed above, plus completion of ONE of the following sets of requirements:

- Set A: One credit of Grade 12 S or U English with a minimum grade of 60%, *and* a minimum average of 70% over three Grade 12 S or U credits OR
- Set B: One credit of Grade 12 S or U English, with a minimum grade of 60%, *and* a minimum average of 63-69.9% over three Grade 12 S or U credits OR
- Set C: A minimum average of 70% over three Grade 12 S or U credits, but lacking the Grade 12 S or U English requirement.

International applicants from other countries should qualify under Set A above.

NOTE: Admission under Set B or C will be considered a limited admission to University 1; some registration restrictions and performance standards will apply, and additional academic supports and services will be provided. See the University 1 section of this *Calendar* for further details on limited admission.

3.2.2 School of Agriculture - Diploma program

General Entrance Requirements as listed above, plus, a minimum average of 60% over the following three courses:

- English 40S
- Mathematics (40S or 45S)
- a science 40S

Students without a suitable high school standing may apply under the Special Consideration Category (see the [Agriculture Diploma Bulletin](#) for more detailed information).

3.2.3 Agriculture & Food Science

Agriculture, Agroecology, Agribusiness, and Food Sciences degree programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- English 40S
- one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

Human Nutritional Sciences degree programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- English 40S
- one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

3.2.4 Faculty of Arts

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. two additional 40S or U courses

Note: completion of either Applied Mathematics 40S or Pre-Calculus 40S would facilitate registration in courses used to fulfill the University's mathematics requirement for graduation, but is not required for direct entry to Arts.

3.2.5 School of Art (Fine Arts studio degree programs)

General Entrance Requirements as listed above, plus the same specific subject requirements and performance levels as University 1. Portfolios are required from all applicants (www.umanitoba.ca/schools/art). Grade 12 Art is recommended.

3.2.6 School of Art (Fine Arts diploma program)

Candidates should meet the General Entrance Requirements as listed above, plus the same specific subject requirements and performance levels as University 1, but applications for the diploma program will be accepted from students who have not graduated from high school or who do not meet the University 1 requirements. Portfolios are required from all applicants (www.umanitoba.ca/schools/art). Grade 12 Art is recommended.

3.2.7 Asper School of Business

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S (recommended) or Applied Mathematics 40S
- c. a third 40S course

3.2.8 School of Dental Hygiene

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- c. one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

3.2.9 Engineering

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. Pre-Calculus Mathematics 40S
- b. Chemistry 40S
- c. Physics 40S

3.2.10 Clayton H. Riddell Faculty of Environment, Earth, and Resources

Environmental Science and Physical Geography Degree Programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- c. one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

Geological Science Degree Programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. Pre-Calculus Mathematics 40S
- b. Chemistry 40S
- c. Physics 40S

Environmental Studies and Geography Degree Programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. two additional 40S or U courses

3.2.11 Health Studies/Health Sciences

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- c. one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

3.2.12 College of Medicine (Family Social Sciences)

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- c. one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

3.2.13 Faculty of Kinesiology & Recreation Management

Kinesiology and Physical Education Degree Programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S or Applied Mathematics 40S
- c. one of: Chemistry 40S, Physics 40S, Biology 40S, or Computer Science 40S

Recreation Management and Community Development Degree Programs

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. two additional 40S or U courses

Please note that candidates interested in Athletic Therapy must apply as Advanced Entry applicants (see Section 4: Advanced Entry Options).

3.2.14 Marcel A. Desautels Faculty of Music

General Entrance Requirements as listed above, plus the same specific subject requirements and performance levels as University 1. An audition and a theory assessment are required (www.umanitoba.ca/music). Grade 12 Music and a second language at the Grade 12 level are recommended.

3.2.15 Faculty of Science

General Entrance Requirements as listed above, plus a minimum 85% average over the following courses, with no less than 60% in each course:

- a. English 40S
- b. one of: Pre-Calculus Mathematics 40S (recommended) or Applied Mathematics 40S
- c. one of: Biology 40S, Chemistry 40S, Computer Science 40S, or Physics 40S

SECTION 4: Advanced Entry Options

Comprehensive information on the entrance requirements, application process, and deadlines for each of these options is found at www.umanitoba.ca/admissions.

The following faculties and schools offer advanced entry options for applicants with one year (24 credit hours) or more of university-level studies, either in [University 1](#) (or another program) at the University of Manitoba, or at another recognized post-secondary institution.

- [Agricultural & Food Sciences \(degree programs\)](#)
- [Agricultural & Food Science \(diploma program\)](#)
- [Architecture \(Environmental Design\)](#)
- [Arts](#)
- [Asper School of Business](#)
- [Clayton H. Riddell Faculty of Environment, Earth, & Resources](#)
- [Dental Hygiene](#)
- [Dentistry](#)
- [Education](#)
- [Engineering](#)
- [Fine Arts \(Art History\)](#)
- [Fine Arts \(Studio program\)](#)
- [General Studies \(Extended Education\)](#)
- [Health Studies and Health Sciences](#)
- [Kinesiology & Recreation Management](#)
- [Law](#)
- [Medicine](#)
- [Rehabilitation Sciences \(Respiratory Therapy\)](#)
- [Marcel A. Desautels Faculty of Music](#)
- [Nursing](#)
- [Pharmacy](#)
- [Science](#)
- [Social Work](#)

(Students who have completed 24 credit hours or more of post-secondary institution courses are not eligible to apply for admission to the direct entry programs (see [Section 3.0 Direct Entry Options](#).)

Students who have attended university or college, but who have completed less than 24 credit hours of course work at another institution, should apply for admission to a direct entry program (see [Section 3.0 Direct Entry Options](#))

Students applying to an advanced entry option must meet two levels of requirements:

- The minimum performance standard of the University
- The minimum performance standards and specific requirements of the Faculty or School in which admission is sought.

4.1 Minimum Performance Standard of the University

The minimum performance requirement for entry to a post-University 1 level program at any faculty or school at the University of Manitoba is a cumulative grade point average (CGPA) of 2.0 (C). Students who do not meet this requirement may be considered for admission if they have achieved a minimum grade point average (GPA) of 2.0 (C) on all courses acceptable for credit in the faculty or school to which application is made. In this case, students must have at least 24 credit hours acceptable for credit. In addition to this university minimum performance requirement, students must meet any additional entrance requirements, performance levels, and selection criteria stipulated for the faculty or school of application.

Students who are currently on suspension at another post-secondary institution will not normally be considered for admission to the University of Manitoba.

Students are advised that selection processes are competitive and in many cases applicants must present adjusted grade point averages greater than the minimum level stated. See [Section 4.2](#).

4.2 Minimum Performance Standards and Specific Requirements of the Faculty or School

Each faculty and school has its own admission requirements and processes, including minimum performance standards and specific entrance requirements and restrictions, and this information is provided in the *Applicant Information Bulletin* posted on the University website (www.umanitoba.ca/admissions). The introductory section of each faculty or school chapter provides a general overview of the admissions requirements, but for specific, comprehensive information on the entrance requirements and selection processes, students must review the Faculty's *Applicant Information Bulletin* posted on the website.

SECTION 5: Other Admission Categories

5.1 Readmission, Continuing and Returning Students

All students who were admitted and who did not follow through with registration must apply for re-admission (www.umanitoba.ca/applynow).

Students who voluntarily withdraw from their first-year of studies must reapply for admission. The only exceptions are students in Agricultural and Food Science, Arts, Clayton H. Riddell Faculty of Environment, Earth, and Resources, General Studies, Science, Social Work, and University 1 who are permitted to reregister without re-applying for admission.

Former students who have attended other institutions since their last registration at the University of Manitoba must apply for re-admission, unless the other institution was attended on a letter of permission.

Students whose past registration was in the following faculties, but who have not been in attendance for one or more years, should seek formal permission to re-register from the office of the dean or director of the faculty or school concerned, to ensure that work previously completed complies with current program requirements: Agricultural and Food

Sciences; Arts; General Studies (Extended Education); Engineering; Clayton H. Riddell Faculty of Environment, Earth, and Resources; Science; Social Work; or University 1. Former students of the Faculty of Arts are required to re-apply for admission if they have been away from their studies for ten or more years.

All students who were admitted to the Asper School of Business, Dental Hygiene, Education, Environmental Design, School of Art, Nursing, Music, or Kinesiology & Recreation Management, where there is limited enrolment, and who have not been in attendance for one year or more, must make formal application to re-register to the office of the dean or director before June 1. Their acceptance back into the program will be subject to quota restrictions and compliance with existing program requirements.

Students who wish to change to a different faculty or school, or who are no longer eligible to continue in one program of studies at the University of Manitoba, may apply for admission to another faculty or school by the application deadline date and must meet the entrance requirements of the faculty of choice.

Students wishing to return to their program of studies after serving a period of academic or disciplinary suspension must make a formal request for re-registration to the Dean's or Director's office of their faculty or school. Students currently on suspension from a faculty or school at the University of Manitoba will not normally be eligible for consideration for admission to another faculty or school.

Students who attend another post-secondary institution or another faculty or school at the University after being placed on suspension must submit an application through the Admissions Office to be considered for readmission to the faculty or school of suspension.

Graduates who wish to take further courses in their own faculty, but not towards a degree, must apply for readmission as a "special student."

5.2 Special Students

Special students are those who wish to enroll in a degree credit course for professional or personal interest and who are not seeking to complete a degree. These students apply to General Studies (Extended Education) or to the faculty or school offering the course.

5.3 Visiting Students

Visiting students are students who are registered at another institution who are taking one or more courses at the University of Manitoba on a Letter of Permission from their home university. These students generally apply for admission to General Studies (Extended Education).

Students are not permitted to concurrently register in degree programs at two institutions without a Letter of Permission.

5.4 Auditing Students

Auditing students are those who wish to be admitted for the purpose of auditing a course(s) only (not for academic credit). No documentation other than the information requested on the application form is required for admission purposes. Auditing students are not entitled to examination or other evaluation privileges, and in no instance may credit standing be obtained for a course which has been audited. Once admitted, the written consent of the instructor of the course(s) which the student wishes to audit must be presented at the time of registration for approval by the faculty or school. (Students admitted in a category other than auditor may audit courses with the approval of the dean or director, provided written permission of the instructor is presented at registration)

5.5 Students Transiting to Arts or Science from University 1

University 1 students may be admitted to either Arts or Science through a process called 'transiting', and are not required to complete the admission process through the regular application procedures. Students intending to transit to the Faculty of Arts or Science may do so prior to their next regular term of registration subject to the following conditions:

- Students who have completed at least 24 credit hours may choose to transit to the Faculty of Arts or Science.
- Students who have completed 30 credit hours or more in University 1 must choose to transit to Arts or Science, if not admitted to another faculty or school, prior to the next regular term of registration. Students will not normally transit for Summer Session.
- Students who are currently on academic suspension from University 1 will not be eligible for transit to Arts or Science until the period of suspension has been completed.

Upon transit to the Faculty of Arts or Science, a student's next assessment of academic performance will be according to the standards required in Arts and Science. See the chapters for the [Faculties of Arts](#) or [Science](#) in this *Calendar* for further details.

SECTION 6: Admission with Advanced Standing

Students who have previously attended a recognized post-secondary institution, including universities, colleges, community and/or technical colleges, and Bible Colleges, who are selected for admission to either a direct entry or an advanced entry program option may qualify for advanced standing. Advanced standing will be granted in compliance with the residence requirements, provided the work completed is part of the requirements of the degree program in which the student wishes to enrol. Some faculties and schools may consider only courses completed within ten (or fewer) years. Credit will be granted only for courses taken at a recognized institution. Standing cannot be determined until official transcripts and complete course descriptions have been received. Since it takes considerable time to have courses evaluated for transfer credit, students are urged to submit their results and course descriptions as early as possible in order that the evaluation process can be completed in time for registration. Students who do not have evaluations completed prior to registration should consult their faculty or school for guidance in selecting courses.

Transfer credit for each individual course will be evaluated by the appropriate University of Manitoba department and transfer credit will be granted subject to program applicability.

Further information on transfer of credit and residence requirement is found in the chapter, General Academic Regulations and Requirements.

Some faculties and schools may have limitations on possible credit taken beyond a specified period; this information is described in their chapters or in the [Applicant Information Bulletin](#).

6.1 Advanced Standing for High School Students

Students who have completed courses in the *Advanced Placement* program (selected Advanced Placement College Board examinations with a minimum score of four in specific areas) or the *International Baccalaureate* program (selected Higher and Standard Level courses with minimum scores

of 4 in specific subject areas), or who have completed university level courses while in high school (including Challenge for Credit), may [apply for transfer of credit](#) to the program they are entering. Students should consult the Admissions Office for information.

Students admitted on the basis of high school graduation may be denied transfer of credit for any university studies completed between the filing of the application and subsequent registration at the University of Manitoba.

6.2 Students Applying from Bible Colleges

Students who have attended a Bible college will be considered for admission/transfer credit, providing that:

- The Canadian Bible college is a member institution of the Association of Universities and Colleges of Canada (AUCC) or is affiliated with an AUCC member institution (other than as an approved teaching centre), or is accredited by the Association for Biblical Higher Education (ABHE).
- The U.S. Bible College holds regional accreditation in the U.S., or is accredited by ABHE.

Degrees from Bible Colleges will not qualify applicants for admission to second degree or after degree programs, with the exception of holders of approved degrees from Booth College and Providence College who are applying for admission to the After Degree Bachelor of Education program. These degrees may suffice for admission to the After Degree program; contact the Faculty for specific information.

6.3 Graduates of Diploma Schools of Nursing (R. N.)

Graduates of diploma schools of nursing may be considered admissible as regular students to the University of Manitoba. Admission to specific faculties and schools will be with the consent of the dean or director and will be conditional upon the presence of specific subject fields within the program completed. Applicants in this category may be granted advance standing not exceeding the residency policy of the faculty concerned (grades of "C+" or equivalent in individual courses have the potential for credit in a degree program).

6.4 Graduates of Diploma Schools of Psychiatric Nursing (R.P.N)

Diploma programs in Manitoba may receive credit transfer for professional work completed.

6.5 Canadian Coast Guard College

Graduates of the Canadian Coast Guard College diploma programs with a minimum 2.5 ("C+") average will be considered for admission as regular students to the University of Manitoba, and may be granted up to one year of advance standing, as appropriate to faculties and schools.

6.6 Graduates of Extended Education

Graduates of certificate programs offered under the auspices of the Extended Education Division of the University of Manitoba which require a minimum of 180 contact hours, may be eligible to receive credit towards an undergraduate degree providing they have been admitted to a faculty or school in which transfer of credit is appropriate. A minimum overall average of 2.5 or better must have been achieved to qualify for consideration. The maximum amount of credit which may be transferred will be determined by Extended Education in consultation with the relevant faculty or school.

SECTION 7: Universal Policies

Definition of Manitoba Residency

For purposes of undergraduate admission to the University of Manitoba, a Manitoba Resident shall be defined as a Canadian Citizen or Permanent Resident of Canada who, at the application deadline, meets any one of the following four descriptions:

- Has graduated from a Manitoba high school
- Has a recognized degree from a university in Manitoba
- Has completed either one year or two consecutive years of full-time academic studies in a recognized program at a university in Manitoba, while physically residing in Manitoba. The duration shall be determined by the program of study and identified in the respective [Applicant Information Bulletin](#) or Supplemental Regulations.
- Has resided continuously in Manitoba for any two year period following high school graduation. The two year residence period shall not be considered broken where the program's admission committee is satisfied that the applicant was temporarily out of the province on vacation, in short-term volunteer work or employment, or as a full-time student.

Tie Breaking Procedures for Offers

In the event of a tie, the following procedure will be used:

- Increase the number of significant figures used in the calculation.
- Where a tie still exists, the application that was received first will be used to break the tie. All completed applications are time stamped upon submission; in the case of a paper application, these applications will be time stamped after they have been entered into the system by a University of Manitoba Admissions Office staff member.

SECTION 8: English Language Proficiency

8.1 English Language Proficiency Requirement

English is the language of instruction and communication at the University of Manitoba. Accordingly, an applicant whose primary language is not English, or whose previous education was in another language, must demonstrate a command of English sufficient to meet the demands of classroom instruction, written assignments, and participation in tutorials and discussions.

Canadian Citizens, Permanent Residents and others whose primary language is English are deemed to be proficient in English by virtue of having lived and been educated in a country where English is the primary language (country as determined by the Admissions Office).

Canadian Citizens and Permanent Residents and International (study permit) applicants whose primary language is NOT English must provide evidence of proficiency in English by meeting the University of Manitoba standards as outlined in the following section.

8.2 English Language Proficiency Options

Any applicant who is asked to demonstrate proficiency in the English language may do so by meeting any one of the following options:*

- Achieve a minimum total score of 86 with a recommended minimum of 20 in each component score on the internet-based Test of English as a Foreign Language (TOEFL).

- Achieve a minimum score of 20 in each component score on the Revised TOEFL Paper-delivered Test.
- Achieve a minimum score of 550 with no less than 50 (unscaled) in each of the component scores on the paper-based TOEFL.
- Achieve a minimum total score of 213 with no less than 17 (unscaled) in each component score in the computer-based TOEFL.
- Achieve minimum scores of 4.5 in Reading, 4.5 in Listening and 4.0 in Writing on the Canadian Test of English for Scholars and Trainees (CanTEST).
- Achieve a minimum score of 6.5 based upon the academic module A, or module B, on the International English Language Testing System (IELTS).
- Achieve a minimum score of 80 on the Michigan English Language Assessment Battery (MELAB).
- Achieve a grade of C or higher on the University of Cambridge Certificate of Proficiency in English.
- Achieve a score of 60 or more in the Canadian Academic English Language Assessment (CAEL).
- Achieve a minimum score of 58 in the Pearson Test of English (Academic).
- Achieve a minimum of 65% in the direct-entry English program, also known as the Academic English Program for University and College Entrance (AEPUCE), as taught by the English Language Centre at the University of Manitoba (or equivalent program at the University of Winnipeg or Red River College).
- Successful completion of 30 credit hours within the International College of Manitoba with a minimum 2.0 grade point average.

* Some Faculties may require a specific test or test scores higher than those indicated above.

8.3 English Language Proficiency Waiver

An English language proficiency waiver may be granted to anyone who is a Permanent Resident, Naturalized Canadian, or who is in Canada on a study permit.

Students seeking this exemption must provide supporting documentation and have the information assessed as satisfactorily meeting one of the following:

- Ten consecutive years of residency in Canada, which may include years of study.
- Successful completion of a three-year secondary (high school) program in Canada, or three years of post-secondary education in Canada, or any combination of three years of successful secondary and post-secondary education in Canada.
- Graduation from a Manitoba high school with five credits at the Grade 12 level which include two credits of English at the 40S or U level with an average grade of 75 per cent.

- Achieve a grade of four or better on the International Baccalaureate Higher Level English course, or a grade of four or better on the Advanced Placement English Composition: Literature and Composition.
- Verify conditions equivalent to the above in a country where English is the primary language.

SECTION 9: Application Procedure

9.1 Applications, Deadlines, and Documents

On-line applications and downloadable application material is provided on the university website (www.umanitoba.ca/admissions) and at the Admissions Office, 424 University Centre; telephone (204) 474-8808. All applicants are advised to download the [Applicant Information Bulletin](#) for their chosen faculty/school for a careful review of the entrance requirements and selection process and then to [apply on-line](#) for admission.

Students are encouraged to submit their applications as early as possible to provide enough time for documentation submission and application processing. Students cannot register until a favourable admission decision has been made. Generally faculties and schools do not consider nor issue acceptances to students awaiting supplemental or summer session results. In those faculties and schools which do, applications must be filed in time to meet the deadline date. An admission decision will only be made upon receipt of final examination results.

Application to live in a [campus residence](#) is made separately (see [Student Residences](#)).

Students who have attended a university other than the University of Manitoba will be required to submit official transcripts of all previous work completed. Transcripts should be submitted at the time of application, or as soon as final results are available, but no later than the deadline date for submission of documents. University of Manitoba transcripts are not required of applicants.

Transfer student applicants who register for further university/college courses subsequent to their application to the University of Manitoba (unless on a Letter of Permission from the University of Manitoba) *must* submit an official transcript of final grades. Admission status will be reassessed, and unless prior permission has been obtained from the Admissions Office, transfer of credit may be denied.

9.2 Appeals of Admission Decisions

Individuals who wish to have their applications reconsidered should submit their request to the Chair of the Selection Committee. Past experience has shown that most inquiries can be satisfied at this level without further reference. Persons wishing reconsideration of the decision of the Selection Committee shall direct their request to the Chair within ten (10) days of the mailing of the Committee decision.

Should the student wish to pursue the reconsideration decision of the Selection Committee further, such an appeal will be made in accordance with the Senate committee on Admission Appeals.

Procedures:

http://www.umanitoba.ca/admin/governance/governing_documents/students/admission_appeals.html

9.3 Application Fraud or Misconduct

Application fraud or misconduct includes:

- Failure to declare attendance at another post-secondary institution;
- Presenting falsified academic documentation or causing or encouraging another person to falsify records through translation or data changes;
- Presenting falsified personal documentation, e.g. using a false name, date of birth, country of origin, etc.;
- Presenting falsified or fictitious reference documentation;
- Cheating on, or having another person write, a standardized entry exam such as, TOEFL, MCAT, LSAT, DAT or GMAT;
- Presenting another person's standardized test score as one's own to falsify a test result; and
- Failure to report suspensions from another post-secondary institution.

The commission of applicant fraud or misconduct may result in acceptance and registration being withdrawn and the applicant disqualified from consideration, not only in the year of application, but in subsequent sessions. If discovered in a subsequent session it may result in dismissal from the university.

9.4 Declaration

All persons seeking admission to the University of Manitoba must sign (or accept) the following declaration on the application for admission form: "I hereby certify that I have read and understood the instructions and information sheet accompanying any part of this application form and that all statements made in connection with this application are true and complete."

University 1

University 1 First Year Centre

Program Director: Brandy Usick
 Campus Address/General Office: 205 Tier Building
 Email Address: university_1@umanitoba.ca
 Telephone: (204) 474 6209
 Fax: (204) 474 7659
 Website: umanitoba.ca/U1

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SECTION 1: University 1

1.1 First Year of Studies in University 1

University 1 is the administrative home for most beginning undergraduate students, through the first 30 credit hours of courses, in most University of Manitoba degree programs. University 1 students have the opportunity to design an individualized first year in order to meet the admission requirements of one or more target degree programs.

High school graduates, mature students, and transfer students with less than 24 credit hours of post-secondary education, are generally admitted to University 1. Other direct entry options also exist for several faculties, schools and colleges. Please refer to the [Admissions Chapter](#) of this calendar for details.

Students who have completed 24-30 credit hours while in University 1 will either transit to the Faculty of Arts or the Faculty of Science, or apply to one of the other faculties, schools or colleges at the University of Manitoba, where they will complete the requirements of the degree program of their choice in order to graduate.

1.2 The University 1 First Year Centre

The University 1 First Year Centre is the only office on campus dedicated to supporting all first year students. It is home to Registration Advisors and Academic Advisors. If you have questions about courses and programs, or challenges arise affecting your academic success, the staff members of the University 1 First Year Centre are available to assist you.

Registration Advisors serve as a welcoming presence in the First Year Centre and are available to assist students with basic advising needs, registration assistance, as well as provide general information about the university, its policies and procedures, and by making on-campus referrals as needed.

Academic Advisors typically assist students with degree program planning, course selection, registration issues, academic expectations and skills, personal issues or concerns, and in connecting with other campus resources.

The [First Year Planning Guide](#) on the University 1 website offers detailed guidance on first year course selection, program planning, and registration.

Newly admitted students are strongly encouraged to review the First Year Planning Guide before consulting an Academic Advisor in the University 1 First Year Centre.

1.3 Advising Programming

Making the transition to university from high school, from another post-secondary institution, or from the workplace, can seem overwhelming. Online resources, along with individual and group advising services, provide students with the tools and information needed to start their first year off strong and find success as a University of Manitoba student.

Advising opportunities are strategically planned to provide students with useful information when they need it most. Throughout the year, students are provided with a variety of opportunities to strengthen their connection with first year advising services, as well as with the larger campus community. Students are encouraged to seek out information and advice at regular intervals.

All new students are strongly encouraged to visit the First Year Centre to familiarize themselves with available supports and resources at the beginning of their first term at university.

1.4 ARTS 1110: Introduction to University

ARTS 1110: Introduction to University, is a three-credit hour course, designed to help student in the transition to university from high school, college, or the workplace, to university studies. ARTS 1110 offers a unique combination of educational principles, practical skills, regular feedback on assignments, and the support of experienced instructors and teaching assistants. Features of ARTS 1110 include strategies for academic success, introduction to libraries and research methods, exercises in critical thinking, and instruction and extensive practice in effective writing.

ARTS 1110 is available to students who have completed fewer than 60 credit hours of university-level courses. Successful completion of ARTS 1110 fulfils the university's Written English (W) requirement.

SECTION 2: Admission Requirements

The Admissions chapter of this publication contains general University of Manitoba admission information, rules and regulations.

For current University 1 admission requirements, refer to our [Applicant Information Bulletin](#) on the Admissions website.

Historical admission requirements can be found in the PDF versions of the Undergraduate Academic Calendar: umanitoba.ca/calendar

2.1 Limited Admission

High school graduates who fall below the minimum admission requirements to University 1, and who are Canadian Citizens or Permanent Residents, may qualify for admission under the Limited Admission category. Please see the University 1 [Applicant Information Bulletin](#) for more information.

The U1 First Year Centre has designed the Limited Admission program to support students' transition to successful university studies.

Limited Admission students are required to:

- Meet in person with their dedicated academic advisor prior to initial registration
- Obtain approval from an academic advisor for their course selection and registration
- Meet in person with their dedicated academic advisor once during each term while they are enrolled in University 1
- Successfully complete and achieve a D or better in the course ARTS 1110: Introduction to University in their first term of registration
- Register in a minimum of 9 credit hours and a maximum of 12 credit hours in each of Fall and Winter term
- Participate in a minimum of one-skill building workshop, as recommended by their academic advisor.

Failure to fulfill these requirements will result in the removal of registration privileges in University 1.

2.2 Transfer of Credit

Students who have completed International Baccalaureate (IB) or Advanced Placement (AP) courses in high school may choose to transfer in these courses for university-level credit. Students who would like transfer credit for IB or AP courses should contact the [Admissions](#) office.

Students who have completed courses at another post-secondary institution prior to admission to University 1 may receive transfer credit for these courses, as outlined in the Transfer Credit section of the Admissions website. Courses completed at another institution 10 years or more before registration in University 1 are not considered for transfer credit.

2.3 Returning to University 1 After an Extended Leave

U1 students who have been away from the University of Manitoba for more than a year will find that their student status is inactive and they are unable to register for courses. If a returning student has not attended another accredited post-secondary institution since leaving the University of Manitoba, and they have 27 credit hours or less, they are eligible to return to University 1. The student should consult with a Registration Advisor at the University 1 First Centre to be reinstated as a student.

Returning U1 students are encouraged to meet with an Academic Advisor in the U1 First Year Centre to discuss their return to studies, registration date and time, and academic goals, well in advance of the start of registration.

Students who have attended another accredited post-secondary institution since they were in University 1 must typically re-apply for admission. Students can contact [Admissions](#) for more details.

If a student has completed more than 27 credit hours, between courses taken at the University of Manitoba and those taken at another institution, the student will not be eligible to return to University 1 and will be required to apply to a degree program.

Students should consult with an Academic Advisor in their target faculty, school or college for information and advice well in advance of the application deadline, which will vary by faculty, and can be obtained from the Admissions office.

SECTION 3: University 1 Academic Regulations

Academic regulations which apply to all students are described in the chapters of the Calendar titled [General Academic Regulations](#), and [University Policies](#). In addition, faculties, schools and colleges have regulations and requirements that apply specifically to their students.

Please see the specific faculty, school or college chapter(s) in the Calendar for the academic regulations that may apply to courses in which you are registered. University 1 Academic Regulations are described below.

3.1 Maximum Course Load

University 1 students are usually restricted to a maximum of 30 credit hours during the Fall/Winter terms, with a maximum of five courses in each term.

3.2 Voluntary Withdrawals

Students are permitted to withdraw from courses within the deadlines listed for each term in the [Academic Schedule](#). The responsibility for initiating withdrawals rests solely with the student. [Voluntary Withdrawals](#) (VWs) must be done by the student using Aurora; non-attendance in courses does not constitute a withdrawal.

VWs will not be permitted after the deadlines posted in the Academic Schedule. Students are strongly encouraged to discuss their plans with an academic advisor before withdrawing from courses.

In exceptional circumstances, Authorized Withdrawals may be permitted on presentation of appropriate documentation. Consult an Academic Advisor in the University 1 First Year Centre for information.

3.3 Repeating Courses

University 1 students may repeat a course they have previously taken, but they are not required to do so because of a low grade or a Voluntary Withdrawal (VW), unless it is a course required for admission or required once in their target degree program. Students may be eligible for a laboratory exemption in classes they are repeating which include a laboratory component.

As per the University of Manitoba Repeated Course Policy, found in the University Policies and Procedure section of the Undergraduate Calendar, when a student wishes to repeat a course (or register for an equivalent course) which the student has previously VW'd or received a grade in, the student will be subject to [Limited Access](#).

Limited Access does not prevent students from repeating a course or registering for an equivalent course that they have previously VW'd or received a grade in. Rather, for three consecutive terms following the Term in which the student VW'd or received a grade in the course, students will be unable to register for the repeated course during the Initial Registration Period. Their registration for the repeated course will be delayed until the Limited Access Term Expiry Date, after Initial Registration has ended. A specific Limited Access Term Expiry Date will be established for each term of registration

Grades from all completed courses will be used in the calculation of the Cumulative Grade Point Average, subject to the Grade Point Averages Policy as found in the University Policies and Procedure section of the Undergraduate Calendar. The grades for all courses attempted will be included on the official transcript.

Students must refer to their target faculty, school or college's Applicant Information Bulletin, found on the [Admissions](#) office website, to determine how repeating a course may affect admission eligibility.

3.4 Deferred Examinations

If a student has missed one or more final exams due to unexpected medical or compassionate circumstances, they may be permitted an opportunity to write their exam/s at a later date. To make this arrangement, University 1 students must contact the First Year Centre within 48 hours of the date of the missed examination. A medical certificate, or otherwise appropriate documentation, may be required. If the request for a deferred examination is approved, the student will, in most cases, be offered the opportunity to write another examination within 30 working days.

Students with known exam conflicts due to religious observance ([interfaith calendar](#)), participation in specific scholastic and athletic events, or a medical condition may request a deferred examination. Applications for a deferred examination due to a known conflict, as indicated here, must be filed 20 working days prior to the date of the scheduled exam. Travel plans are not an acceptable reason for missing an exam

The University 1 First Year Centre is the only place that can arrange a deferred examination for University 1 students who miss an exam scheduled by the Registrar's Office. U1 cannot grant deferrals for mid-terms or final exams scheduled in class time. Please see your instructor for options related to missed in-class tests or to request extensions to submit term work.

Please see [the Registrar's Office website](#) for more information about deferred final exams.

3.5 Authorized Withdrawals

Students who are unable to fulfill their academic responsibilities due to extenuating circumstances and who have valid and documented reasons for withdrawal from courses, such as medical illness or compassionate circumstances may apply to University 1 for Authorized Withdrawal. If granted, Authorized Withdrawal will result in the student being withdrawn from a course without academic penalty. Authorized Withdrawals will not appear on a student's official university transcript. Please see the [University of Manitoba Authorized Withdrawal Policy](#) for more information.

3.6 Academic Performance

Grades obtained in University 1 become a part of the student's permanent record and will appear on the student's official transcript. Grades earned while in University 1 will determine admission to most faculties, schools and colleges, and may also qualify a student for the University 1 Honour List (see section 3.6 in this chapter for details). See the [General Academic Regulations](#) chapter of the Calendar for a description of how Grade Point Averages (GPAs) are calculated.

Maximum Number of 'F' Grades

All students in University 1 must meet minimum academic performance requirements and will be placed on academic suspension for one year if they have accumulated more than 36 credit hours of 'F' grades, regardless of the origin of the grade (i.e. courses transferred from other programs or institutions will be included) or whether the course has been repeated.

Students who are performing marginally or are at risk of exceeding the 'F' limit will be identified and will be provided with academic advising, strategic referrals, and support services as necessary.

Students placed on academic suspension are not normally permitted to register in any other faculty, school or college at the University of Manitoba or to attend any other post-secondary institution for a period of one calendar year.

Following one year of suspension, the student may re-apply to the [Faculty of Arts](#) or the [Faculty of Science](#), and return to the University of Manitoba. Please see the Faculty of Arts or Faculty of Science chapters of the Calendar for a complete description of the options available following academic suspension.

Although an academic assessment is not appealable, University 1 students are encouraged to meet with an Academic Advisor in the First Year Centre to discuss options and potential remedies for poor academic performance.

3.7 University 1 Honour List

Students who achieve a term GPA of 3.75 or higher on a minimum of 12 credit hours offered by the University of Manitoba will be placed on the University 1 Honour List. The University 1 Honour List will be calculated after each term (Fall, Winter, and Summer); the notation "University 1 Honour List" will be recorded on the student's transcript specific to that term.

3.8 Appeals of Decisions

Students in University 1 have the right to appeal any decisions made from the University of Manitoba policies, or from University 1 policies. Appeals from University 1 students should first be directed to the First Year Centre Coordinator within 10 working days from the date of the decision. Decisions of the First Year Centre Coordinator are appealable to the Executive Director Student Engagement and Success. Decisions of the Executive Director may be appealed on procedural grounds to the University 1 Appeals Committee. See

<http://umanitoba.ca/u1/about/index.html> for detailed policy and procedure information.

Student Advocacy and Case Management has Student Advocates who are available to assist students in preparing all appeals and requests for special consideration. Students can contact their office at 520 University Centre, Ph: 204 474-7423.

SECTION 4: University 1 Program Requirements

4.1 Course Selection and Registration

Detailed information regarding first year courses and registration can be found in the [First Year Planning Guide](#) on the University 1 website.

Instructional videos are also available within the Guide to assist students through the registration process. Students will be directed to resources, including the First Year Planning Guide, upon acceptance of their offer of admission to the University of Manitoba.

4.2 University 1 Curriculum

University 1 is normally the first 24-30 credit hours of a student's degree program. The University 1 curriculum includes a breadth requirement to ensure that students are exposed to a representative sample of courses. To that end, University 1 students are required to take 6 credit hours of courses from the Faculty of Arts, 6 credit hours of courses from the Faculty of Science, and 6 credit hours of courses from the Faculty of Arts or the Faculty of Science or the Clayton H. Riddell Faculty of Environment, Earth, and Resources. The remaining 12 credit hours of courses are to be chosen from the Recommended Introductory Courses list, found within the [First Year Planning Guide](#).

The University 1 curriculum will normally be fulfilled through the completion of the admission requirements to faculties, schools and colleges, as outlined in this Calendar and in the [First Year Planning Guide](#).

Students may be eligible to enter a faculty, school or college program once they have completed a minimum of 24 credit hours (see Section 4.3 in this chapter). Students who have not completed the University 1 curriculum and who are admitted to faculties, schools and colleges after University 1, will complete any outstanding requirements as part of their degree program.

4.3 Admission to Faculties, Schools and Colleges Following University 1

For target faculties, schools, and colleges that admit students directly from U1, either 24 or 30 credit hours are required to fulfil admission requirements to degree programs. See the specific admission requirements for each target faculty, school, and college in the Calendar.

Applying to Faculties, Schools and Colleges

University 1 students who have met the minimum admission requirements for their target degree program can apply to an [Advanced Entry](#) program for which they have met the first year requirements. Detailed admission information for advanced entry degree programs can be found in each program's Applicant Information Bulletin, available on the Admissions website.

Applications to degree programs in faculties, schools or colleges other than Arts or Science, must be made through the [Admissions website](#)

Transiting to the Faculty of Arts or the Faculty of Science

University 1 students who have completed between 24 and 30 credit hours do not have to apply for admission if they are targeting degree programs in either the [Faculty of Arts](#) or the [Faculty of Science](#). Instead, these students are able to transit to the Faculty of Arts or the Faculty of Science. University 1 students are assessed once per year for their eligibility to transit. Students can transit on Aurora once a year in mid-June. Visit the U1 website for more specific instructions on [how to transit](#). Students should transit before registering for courses. There is no fee to transit.

Alternatively, students who have completed between 24 and 27 credit hours may elect to remain in University 1 and register for a full course load in the following regular academic year, depending on the requirements of their target degree program.

Students who have completed 30 credit hours are not eligible to remain in University 1 for the following year. They are required to either transit to the Faculty of Arts or the Faculty of Science, or to apply to an advanced entry program for which they have met the admission requirements.

SECTION 5: Recommended Introductory Courses

Refer to [Section 4](#) in this chapter for information about choosing courses in University 1. To find a description of the courses on this list, go to the chapter in this Calendar for the Faculty, School, or College that is offering the course. Departments are listed alphabetically within each Faculty, School, or College chapter. Course descriptions are located in the department sections and sorted in numerical order. Note that not all courses listed in this section are offered every year. To determine which courses are offered in the current academic year, refer to the Aurora Class Schedule. Students may be permitted to take courses not on this list with permission of the teaching Faculty, School, or College and University 1. For a list of courses available at Université de Saint-Boniface see a University 1 Academic Advisor or refer to the Aurora [Class Schedule](#).

Credit Hours

Faculty of Agricultural and Food Sciences

In addition to the courses listed below, students who are registering in University 1 for a second year to complete courses required for entry to Agricultural and Food Sciences may request permission to register in any advanced level Agricultural and Food Sciences courses for which they have the prerequisites, subject to space limitations. Students must first consult a University 1 Academic Advisor.

| Agribusiness | | |
|------------------------|---|---|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| ABIZ 1010 | Economics of World Food Issues and Policies | 3 |
| Entomology | | |
| ENTM 1000 | World of Bugs | 3 |
| Food Science | | |
| FOOD 1000 | Food Safety Today and Tomorrow | 3 |
| General Faculty | | |

| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
|-----------------------------------|---|---|
| AGRI 1510 | Production, Distribution and Utilization of Agricultural Products | 3 |
| Human Nutritional Sciences | | |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| Plant Science | | |
| PLNT 1000 | Urban Agriculture | 3 |

| Faculty of Architecture | | |
|--------------------------------|---|---|
| EVDS 1600 | Introduction to Environmental Design | 3 |
| EVDS 1602 | Visual Literacy | 3 |
| EVDS 1660 | History of Culture, Ideas and Environment 1 | 3 |
| EVDS 1670 | History of Culture, Ideas and Environment 2 | 3 |
| School of Art | | |
| FA 1020 | Mathematics in Art | 3 |
| FAAH 1030 | Introduction to Art 1A | 3 |
| FAAH 1040 | Introduction to Art 2A | 3 |
| STDO 1210 | Drawing: Studio 1 | 3 |
| STDO 1240 | Figure Study 1 | 3 |
| STDO 1250 | Drawing: Studio 2 | 3 |
| STDO 1410 | Visual Language | 3 |
| STDO 1450 | Open Studio 1 | 3 |
| STDO 1470 | Materials Studio | 3 |
| STDO 1510 | Art Now | 3 |

Faculty of Arts

In addition to the courses listed below, University 1 students may take any 2000, 3000 and 4000 level Arts courses for which they have the prerequisite, subject to space limitations.

| Anthropology |
|---------------------|
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|--------------------------|--|---|
| ANTH 1210 | Human Origins and Antiquity | 3 |
| ANTH 1220 | Cultural Anthropology | 3 |
| ANTH 1520 | Critical Cultural Anthropology | 3 |
| Asian Studies | | |
| ASIA 1420 | Asian Civilizations to 1500 | 3 |
| ASIA 1430 | Asian Civilizations from 1500 | 3 |
| ASIA 1750 | Introduction to Korean | 6 |
| ASIA 1760 | Introduction to Chinese (Mandarin) | 6 |
| ASIA 1770 | Introduction to Japanese | 6 |
| ASIA 1780 | Basic Sanskrit | 6 |
| ASIA 1790 | Basic Hindi-Urdu | 6 |
| ASIA 2750 | Intermediate Korean | 6 |
| ASIA 2760 | Intermediate Chinese (Mandarin) | 6 |
| ASIA 2770 | Intermediate Japanese | 6 |
| Canadian Studies | | |
| CDN 1130 | Introduction to Canadian Studies | 6 |
| Catholic Studies | | |
| CATH 1190 | Introduction to Catholic Studies | 3 |
| Classics | | |
| Classical Studies | | |
| CLAS 1270 | Introduction to Ancient Greek Culture | 3 |
| CLAS 1280 | Introduction to Ancient Roman Culture | 3 |
| Greek | | |
| GRK 1010 | Introduction to the Reading of Ancient Greek 1 | 3 |
| GRK 1020 | Introduction to the Reading of Ancient Greek 2 | 3 |
| GRK 1030 | New Testament Greek | 6 |

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|--|--|---|
| GRK 1060 | Introductory Modern Greek 1 | 3 |
| GRK 1070 | Introductory Modern Greek 2 | 3 |
| Latin | | |
| LATN 1080 | Introduction to the Reading of Latin 1 | 3 |
| LATN 1090 | Introduction to the Reading of Latin 2 | 3 |
| Economics | | |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| ECON 1210 | Introduction to Canadian Economic Issues and Policies | 3 |
| ECON 1220 | Introduction to Global Environmental Economic Issues and Policies | 3 |
| English, Theatre, Film, and Media | | |
| English | | |
| ENGL 0930 | English Composition (Note: This course is not acceptable for credit in the Faculties of Engineering, Nursing and Pharmacy, towards the teachable major/minor in Education, nor can it be used to meet the Humanities requirement). | 3 |
| ENGL 0940 | Writing About Literature (Note: This course is not acceptable for credit in the Faculties of Engineering, Nursing and Pharmacy, nor can it be used to meet the Humanities requirement). | 3 |
| ENGL 1200 | Representative Literary Works | 6 |
| ENGL 1300 | Literature since 1900 | 6 |

| | | |
|----------------|--|---|
| ENGL 1340 | Introduction to Literary Analysis | 3 |
| ENGL 1400 | Thematic Approaches to the Study of Literature | 3 |
| Film | | |
| FILM 1290 | The Art of the Film 1 | 3 |
| FILM 1310 | Film History | 3 |
| Theatre | | |
| THTR 1220 | Introduction to Theatre | 6 |

| | | |
|------------------------------------|--|---|
| French, Spanish and Italian | | |
| French | | |
| FREN 1152 | Introductory French 1 | 3 |
| FREN 1154 | Introductory French 2 | 3 |
| FREN 1190 | Francais | 6 |
| FREN 1200 | French 1 | 6 |
| FREN 1252 | Francais Oral 1 | 3 |
| Spanish | | |
| SPAN 1180 | Introductory Spanish | 6 |
| SPAN 1190 | Introductory Spanish 2 | 3 |
| SPAN 1262 | Intermediate Spanish Language and Conversation 1 | 3 |
| SPAN 1272 | Intermediate Spanish Language and Conversation 2 | 3 |
| SPAN 1280 | Spanish for Native Speakers | 3 |
| SPAN 1290 | Accelerated Intermediate Spanish | 6 |
| Italian | | |
| ITLN 1080 | Introductory Italian | 6 |
| Portuguese | | |
| PORT 1170 | Introductory Portuguese | 6 |
| PORT 1282 | Intermediate Portuguese Grammar & Conversation | 3 |

| | | |
|----------------------------------|---|---|
| German and Slavic Studies | | |
| German | | |
| GRMN 1120 | Beginning German | 6 |
| GRMN 1300 | Masterpieces of German Literature in English Translation | 3 |
| GRMN 1310 | Love in German Culture in English Translation | 3 |
| GRMN 2100 | Intermediate German | 6 |
| GRMN 2120 | Introduction to German Culture 1 | 3 |
| GRMN 2130 | Introduction to German Culture 2 | 3 |
| GRMN 2140 | Exploring German Literature | 3 |
| Hungarian | | |
| HUNG 1000 | Introduction to Hungarian 1 | 3 |
| HUNG 1002 | Introduction to Hungarian 2 | 3 |
| Polish | | |
| POL 1890 | Introductory Polish | 6 |
| POL 1900 | Love, Heroes & Patriotism in Contemporary Poland | 3 |
| POL 2600 | Polish Culture Until 1918 | 3 |
| POL 2610 | Polish Culture 1918 to the Present | 3 |
| POL 2890 | Intermediate Polish | 6 |
| Russian | | |
| RUSN 1300 | Introductory Russian | 6 |
| RUSN 1330 | Introductory Russian 2 | 3 |
| RUSN 1400 | Masterpieces of Russian Literature in English Translation | 3 |
| RUSN 1410 | Love in Russian Culture in English Translation | 3 |
| RUSN 2280 | Russian Culture until 1900 | 3 |

| | | |
|---------------------------------|---|---|
| RUSN 2290 | Russian Culture from 1900 to the Present | 3 |
| RUSN 2810 | Intermediate Russian | 6 |
| RUSN 2820 | Intermediate Russian 2 | 3 |
| Ukrainian | | |
| UKRN 1230 | Language Seminar in Ukraine 1 | 3 |
| UKRN 1310 | Introductory Ukrainian | 6 |
| UKRN 1320 | Introductory Ukrainian 2 | 3 |
| UKRN 2720 | Intermediate Ukrainian | 6 |
| UKRN 2730 | Intermediate Ukrainian 2 | 3 |
| UKRN 2770 | Ukrainian Culture until 1900 | 3 |
| UKRN 2780 | Ukrainian Culture from 1900 to the Present | 3 |
| Global Political Economy | | |
| GPE 1700 | Social Justice in the 21st Century: Global Political Economy and Environmental Change | 3 |

| | | |
|----------------|---|---|
| History | | |
| HIST 1200 | An Introduction to the History of Western Civilization | 6 |
| HIST 1260 | New Directions in History: Inquiries into the Cultural Basis of the Modern World | 3 |
| HIST 1270 | New Directions in History: Inquiries into the Power Relations of the Modern World | 3 |
| HIST 1350 | An Introduction to the History of Western Civilization to 1500 | 3 |
| HIST 1360 | An Introduction to the History of Western Civilization from 1500 | 3 |

| | | |
|-----------|---|---|
| HIST 1370 | An Introduction to Modern World History: 1500-1800 | 3 |
| HIST 1380 | An Introduction to Modern World History: 1800-Present | 3 |
| HIST 1390 | History of Colonial Canada: 1500-1885 | 3 |
| HIST 1400 | History of the Canadian Nation since 1867 | 3 |
| HIST 1420 | Asian Civilizations to 1500 | 3 |
| HIST 1430 | Asian Civilizations from 1500 | 3 |
| HIST 1440 | History of Canada | 6 |
| HIST 1500 | An Introduction to Modern World History: 1500 - Present | 6 |
| HIST 2010 | Indigenous History in Canada | 6 |
| HIST 2020 | The Métis in Canada | 3 |
| HIST 2050 | South Asia since 1947 | 3 |
| HIST 2130 | Emergence of Modern South Asia: 1757-1947 | 3 |
| HIST 2140 | Colonial Latin America | 3 |
| HIST 2150 | Independent Latin America | 3 |
| HIST 2180 | The History of Catholicism to 1540 | 3 |
| HIST 2200 | Labour History: Canada and Beyond | 3 |
| HIST 2210 | History of Britain, 1485 to the Present | 6 |
| HIST 2220 | The Shaping of Modern Ireland, 1500 to the Present | 6 |
| HIST 2230 | History of the United States from 1607 | 6 |
| HIST 2240 | History of Antisemitism and the Holocaust | 6 |

| | | |
|-----------|--|---|
| HIST 2250 | Social History of the Jews: Antiquity to Present | 6 |
| HIST 2282 | Inventing Canada | 3 |
| HIST 2286 | Modern Canada | 3 |
| HIST 2288 | History of Social Movements in Canada | 3 |
| HIST 2350 | Europe 1789-1870 | 3 |
| HIST 2360 | Europe 1870-Present | 3 |
| HIST 2370 | History of Europe since the French Revolution | 6 |
| HIST 2390 | Early Modern Europe, 1450-1789 | 6 |
| HIST 2400 | History of Human Rights and Social Justice in the Modern World | 3 |
| HIST 2410 | History of India | 6 |
| HIST 2420 | The Medieval World | 6 |
| HIST 2490 | History of Russia | 6 |
| HIST 2500 | History of Africa | 6 |
| HIST 2502 | The Modern Middle East: A Critical Survey | 6 |
| HIST 2520 | A History of Germany since the Reformation | 6 |
| HIST 2570 | Nationalism in Modern Times | 3 |
| HIST 2600 | Introduction to the Ukraine | 3 |
| HIST 2610 | Making of Modern Ukraine | 3 |
| HIST 2650 | Modern China and Japan | 6 |
| HIST 2654 | History of the People's Republic of China, 1949 – Present | 3 |
| HIST 2660 | History of the Soviet Union | 3 |
| HIST 2670 | History of Capitalism | 3 |
| HIST 2680 | A History of Socialism from the French Revolution to the Present | 3 |

| | | |
|--------------------------|--|---|
| HIST 2730 | Modern World History, 1914-1945: The 30 Years' Crisis | 3 |
| HIST 2732 | Modern World History, 1945-1992: The Age of Three Worlds | 3 |
| HIST 2734 | Modern World History, 1914-Present: New World Order | 3 |
| HIST 2750 | History of the United States from 1607 to 1877 | 3 |
| HIST 2760 | History of the United States from 1877 | 3 |
| HIST 2820 | An Introduction to Historical Method | 6 |
| HIST 2840 | A History of Russia to 1917 | 3 |
| HIST 2900 | Topics in Social History | 6 |
| HIST 2930 | The History of the British Isles, 412-1485 | 6 |
| HIST 2990 | The History of Catholicism since 1540 | 3 |
| Icelandic | | |
| ICEL 1200 | Introduction to Icelandic | 6 |
| ICEL 1210 | Conversational Icelandic | 3 |
| ICEL 1300 | Introduction to Swedish | 3 |
| ICEL 1400 | Introduction to Contemporary Culture in Iceland | 3 |
| ICEL 1410 | Introduction to Culture in Medieval Iceland | 3 |
| Interdisciplinary | | |
| ARTS 1110 | Introduction to University (Note: This course is not acceptable for credit in the Faculty of Engineering, nor does it satisfy a Humanities | 3 |

| | | |
|-----------------------|--|---|
| | or Social Sciences requirement.) | |
| ARTS 1160 | Leadership: An Interdisciplinary Approach (This course will satisfy the Faculty of Arts' Social Sciences requirement.) | 3 |
| Judaic Studies | | |
| Arabic | | |
| ARA 1000 | Introductory Arabic | 6 |
| ARA 2000 | Intermediate Arabic | 6 |
| Hebrew | | |
| HEB 1120 | Biblical Hebrew | 6 |
| HEB 1250 | Hebrew 1 | 6 |
| HEB 1260 | Hebrew 2 | 6 |
| Yiddish | | |
| YDSH 1220 | Yiddish | 6 |
| Labour Studies | | |
| LABR 1260 | Working for a Living | 3 |
| LABR 1290 | Introduction to the Canadian Labour Movement | 3 |
| LABR 2200 | Labour History: Canada and Beyond | 3 |
| Linguistics | | |
| ASLL 1000 | American Sign Language 1 | 3 |
| LING 1200 | Introduction to Linguistics | 6 |
| LING 1340 | Semantics | 3 |
| LING 1360 | Languages of Canada | 3 |
| LING 1380 | General Phonetics | 3 |
| LING 1420 | Language and Gender | 3 |
| LING 1440 | Rules of English Grammar | 3 |
| LING 1620 | Language and the Media | 3 |

Native Studies

| | | |
|--------------------------|--|---|
| NATV 1000 | Orientation Course: The Colonizers and the Colonized | 3 |
| NATV 1200 | The Native Peoples of Canada | 6 |
| NATV 1220 | The Native Peoples of Canada, Part 1 | 3 |
| NATV 1240 | The Native Peoples of Canada, Part 2 | 3 |
| Native Languages | | |
| NATV 1250 | Introductory Cree 1 | 3 |
| NATV 1260 | Introductory Cree 2 | 3 |
| NATV 1270 | Introductory Ojibway 1 | 3 |
| NATV 1280 | Introductory Ojibway 2 | 3 |
| NATV 1290 | Introductory Inuktitut | 3 |
| NATV 1300 | Selected Topics in Introductory Indigenous Language | 3 |
| NATV 2012 | Indigenous History in Canada | 6 |
| NATV 2020 | The Métis in Canada | 3 |
| Philosophy | | |
| PHIL 1200 | Introduction to Philosophy | 6 |
| PHIL 1290 | Critical Thinking | 3 |
| PHIL 1320 | Introductory Logic | 6 |
| Political Studies | | |
| POLS 1502 | Introduction to Political Studies | 3 |
| POLS 1506 | Survey of Political Studies | 3 |
| Psychology | | |
| PSYC 1200 | Introduction to Psychology | 6 |
| Religion | | |
| RLGN 1120 | Biblical Hebrew | 6 |
| RLGN 1322 | Introduction to Eastern Religions | 3 |
| RLGN 1324 | Introduction to Western Religions | 3 |

| | | |
|---|---|---|
| RLGN 1350 | The History of Eastern Christianity | 6 |
| RLGN 1390 | Readings in Biblical Hebrew 1 | 3 |
| RLGN 1400 | Readings in Biblical Hebrew 2 | 3 |
| RLGN 1410 | Death and Concepts of the Future | 3 |
| RLGN 1420 | Ethics in World Religions | 3 |
| RLGN 1424 | Religion and Sexuality | 3 |
| RLGN 1430 | Food: Religious Concepts and Practices | 3 |
| RLGN 1440 | Evil in World Religions | 3 |
| RLGN 1450 | Religion and The Media | 3 |
| Sociology | | |
| SOC 1200 | Introduction to Sociology | 6 |
| Women's and Gender Studies Program | | |
| WOMN 1500 | Introduction to Women's and Gender Studies in the Humanities | 3 |
| WOMN 1600 | Introduction to Women's and Gender Studies in the Social Sciences | 3 |
| WOMN 2560 | Women, Science and Technology | 3 |
| WOMN 2600 | Sex, Gender, Space and Place | 3 |

Faculty of Engineering

In addition to the courses listed below, students who are registering in University 1 for a second year to complete courses required for entry to Engineering may request permission to register in any advanced level Engineering courses for which they have the prerequisites, subject to space limitations. Students must first consult the Faculty of Engineering and a University 1 Academic Advisor.

| | | |
|----------|---|---|
| ENG 1430 | Design in Engineering | 3 |
| ENG 1440 | Introduction to Statics | 3 |
| ENG 1450 | Introduction to Electrical and Computer Engineering | 3 |

| | | |
|----------|----------------------------------|---|
| ENG 1460 | Introduction to Thermal Sciences | 3 |
|----------|----------------------------------|---|

Clayton H. Riddell Faculty of Environment, Earth, and Resources

In addition to the courses listed below, University 1 students may take any 2000, 3000 and 4000 level Clayton H. Riddell Faculty of Environment, Earth, and Resources courses for which they have the prerequisite, subject to space limitations.

| | | |
|------------------------------|---|---|
| Environmental Science | | |
| ENVR 1000 | Environmental Science 1: Concepts | 3 |
| ENVR 2000 | Environmental Science 2: Issues | 3 |
| General Faculty | | |
| EER 1000 | Earth: A User's Guide | 3 |
| Geography | | |
| GEOG 1280 | Introduction to Human Geography | 3 |
| GEOG 1290 | Introduction to Physical Geography | 3 |
| GEOG 1700 | Social Justice in the 21st Century: Global Political Economy and Environmental Change | 3 |
| Geological Sciences | | |
| GEOL 1340 | The Dynamic Earth | 3 |
| GEOL 1400 | Time-Trekker's Travelog: Our Evolving Earth | 3 |
| GEOL 1410 | Natural Disasters and Global Change | 3 |
| GEOL 1420 | Exploring the Planets | 3 |

Rady Faculty of Health Sciences

| | | |
|---|---|---|
| Max Rady College of Medicine - Community Health Sciences | | |
| Health Sciences, Health Studies, and Human Ecology | | |
| HEAL 1600 | Health and Health Professions | 3 |
| Family Social Sciences | | |
| FMLY 1000 | Families in Contemporary Canadian Society | 3 |

| | | |
|-----------|------------------------------------|---|
| FMLY 1010 | Human Development in the Family | 3 |
| FMLY 1012 | Introduction to Social Development | 3 |
| FMLY 1420 | Family Management Principles | 3 |

Faculty of Kinesiology and Recreation Management

| | | |
|-----------|---|---|
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| KPER 1400 | Concepts of Recreation and Leisure | 3 |
| KPER 1500 | Foundations of Physical Education and Kinesiology | 3 |

Faculty of Management/I. H. Asper School of Business

In addition to the courses listed below, students may register in any advanced level Business course for which they have the prerequisites, subject to space limitations.

| | | |
|--------------------------------|--|---|
| Business Administration | | |
| GMGT 1010 | Business and Society | 3 |
| GMGT 2060 | Management and Organizational Theory | 3 |
| GMGT 2070 | Introduction to Organizational Behaviour | 3 |
| Entrepreneurship | | |
| ENTR 2010 | Managing the Smaller Business | 3 |
| ENTR 2020 | Starting a New Business | 3 |
| Marketing | | |
| MKT 2210 | Fundamentals of Marketing | 3 |

Marcel A. Desautels Faculty of Music

| | | |
|------------|--------------------------------|---|
| MUSC 1050 | The Well-Tempered Concert-Goer | 3 |
| MUSC 1110* | Music Theory 1 | 3 |
| MUSC 1120* | Music Theory 2 | 3 |
| MUSC 1280* | Musical Style and Structure 1 | 3 |

| | | |
|--|-------------------------------|---|
| MUSC 1290* | Musical Style and Structure 2 | 3 |
| MUSC 1930 | Rudiments of Music | 3 |
| * Contact the Marcel A. Desautels Faculty of Music for permission to register. | | |

Faculty of Science

In addition to the courses listed below, University 1 students may take any 2000, 3000 and 4000 level Science courses for which they have the prerequisite, subject to space limitations.

| | | |
|----------------------------|---|---|
| Biological Sciences | | |
| BIOL 1000 | Biology: Foundations of Life | 3 |
| BIOL 1010 | Biology: Biological Diversity and Interactions | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function and Interaction | 3 |
| BIOL 1300 | Economic Plants | 3 |
| BIOL 1340 | The State of the Earth's Environment: Contemporary Issues | 3 |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| Chemistry | | |
| CHEM 0900 | Preparatory Chemistry | 0 |
| CHEM 1000 | Understanding the World through Chemistry | 3 |
| CHEM 1030 | Carbon Chemistry in Nature and Society | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| Computer Science | | |

| | | |
|------------------------------|--|---|
| COMP 1010 | Introductory Computer Science 1 | 3 |
| COMP 1012 | Computer Programming for Scientists and Engineers | 3 |
| COMP 1020 | Introductory Computer Science 2 | 3 |
| COMP 1500 | Computing: Ideas and Innovation | 3 |
| COMP 1600 | Navigating Your Digital World | 3 |
| Mathematical Sciences | | |
| MATH 0500 | Preparing for University Mathematics | 0 |
| MATH 1010 | Applied Finite Mathematics | 3 |
| MATH 1020 | Mathematics in Art | 3 |
| MATH 1080 | Fundamentals of Mathematical Reasoning | 3 |
| MATH 1090 | Mathematical Reasoning in Euclidean Geometry | 3 |
| MATH 1200 | Elements of Discrete Mathematics | 3 |
| MATH 1210 | Techniques of Classical and Linear Algebra | 3 |
| MATH 1220 | Linear Algebra 1 | 3 |
| MATH 1230 | Differential Calculus | 3 |
| MATH 1232 | Integral Calculus | 3 |
| MATH 1240 | Elementary Discrete Mathematics | 3 |
| MATH 1300 | Vector Geometry and Linear Algebra | 3 |
| MATH 1310 | Matrices for Management and Social Sciences | 3 |
| MATH 1500 | Introduction to Calculus | 3 |
| MATH 1510 | Applied Calculus 1 | 3 |
| MATH 1520 | Introductory Calculus for Management and Social Sciences (Note: This course is not acceptable for credit in the Faculty of Engineering.) | 3 |
| MATH 1690 | Calculus | 6 |
| MATH 1700 | Calculus 2 | 3 |

| | | |
|------------------------------|---|---|
| MATH 1710 | Applied Calculus 2 | 3 |
| Microbiology | | |
| MBIO 1010 | Microbiology 1 | 3 |
| MBIO 1220 | Essentials of Microbiology | 3 |
| MBIO 1410 | Introduction to Molecular Biology 1 | 3 |
| Physics and Astronomy | | |
| Astronomy | | |
| ASTR 1810 | Introduction to Astronomy: The Magnificent Universe | 3 |
| ASTR 1830 | Life in the Universe | 3 |
| Physics | | |
| PHYS 0900 | Preparing for University Physics | 0 |
| PHYS 1020 | General Physics 1 | 3 |
| PHYS 1030 | General Physics 2 | 3 |
| PHYS 1050 | Physics 1: Mechanics | 3 |
| PHYS 1070 | Physics 2: Waves and Modern Physics | 3 |
| Statistics | | |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |

Faculty of Social Work

| | | |
|-----------|---------------------------------------|---|
| SWRK 1310 | Introduction to Social Welfare Policy | 3 |
| SWRK 2080 | Interpersonal Communication Skills | 3 |

Faculty of Agricultural and Food Sciences/ School of Agriculture

Dean: Martin Scanlon
Associate Dean(s): Jared Carlberg (Academic); Annemieke Farenhorst (Research); Jitendra Paliwal (Graduate Programs)
Program Director: School of Agriculture: Michele Rogalsky
Campus Address/General Office: 256 Agriculture Building
General: agfoodsci@umanitoba.ca
(204) 474-6026
umanitoba.ca/afs/
Undergraduate Program Inquiries: aginfo@umanitoba.ca
Please refer to the Faculty of Agricultural and Food Sciences website at umanitoba.ca/afs/
Student Services Office: 160 Agriculture Building
Telephone: (204) 474-9295

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SECTION 5: Course Descriptions

5.1 Degree Course Descriptions

5.2 Diploma Course Descriptions

SECTION 1: Programs Offered

1.1 Degree/Diploma Programs Offered

| Degree/Diploma | Years to Completion | Total Credit Hours |
|---|---------------------|--------------------|
| Bachelor of Science in Agriculture (Agronomy, Animal Systems or Plant Biotechnology Major) | 4 | 120 |
| Bachelor of Science in Agriculture (Agronomy, Animal Systems or Plant Biotechnology Major) Co-op Option | 4 | 120 |
| Bachelor of Science in Agribusiness | 4 | 120 |
| Bachelor of Science in Agribusiness Co-op Option | 4 | 120 |
| Bachelor of Science in Agroecology | 4 | 120 |
| Bachelor of Science in Food Science (Science or Business Option) | 4 | 120 |
| Bachelor of Science in Food Science (Science or Business Option) Co-op Option | 4 | 120 |
| Bachelor of Science in Human Nutritional Sciences | 4 | 120 |
| Bachelor of Science in Human Nutritional Sciences Co-op Option | 4 | 120 |

| | | |
|--|----|----|
| Bachelor of Science in Human Nutritional Sciences Second Degree Option | 2 | 60 |
| Bachelor of Science in Human Nutritional Sciences Second Degree Option Co-op Option | 2 | 60 |
| Bachelor of Science in Human Nutritional Sciences/Red River College Culinary Arts | 2 | 60 |
| Bachelor of Science in Human Nutritional Sciences/Red River College Culinary Arts Co-op Option | 2 | 60 |
| Pre-veterinary Program | 2* | 60 |
| Diploma in Agriculture (Business Management, Crop Management, Livestock Management or General Agriculture Option) | 2 | 93 |
| Diploma in Agriculture (Business Management, Crop Management, Livestock Management or General Agriculture Option) Co-op Option | 2 | 93 |
| Internationally Educated Agrologists Post-Baccalaureate Diploma Program (IEAP) (intake suspended) | 1 | 25 |

*Two full years of university training are required for admission to the Western College of Veterinary Medicine (Saskatoon) comprised of 60 **Credit Hours**.

Faculty Overview

The Faculty of Agricultural and Food Sciences has earned a reputation for its high-calibre teaching programs and its friendly, helpful staff. Students benefit not only from the expertise of staff in the Faculty, but also from the close proximity of other faculties on campus, federal research facilities, and a vibrant Winnipeg-based agricultural community.

Information on the Faculty's History, Vision and Mission Statements, Research, Programs, Centres, and Departments can be found on our website at: umanitoba.ca/afs.

Degree Programs

The B.Sc. degree programs in Agricultural and Food Sciences provide an applied science background for graduates to enter a range of professions. Students can choose degree specializations in Agribusiness, Agriculture (Agronomy, Animal Systems, or Plant Biotechnology), Agroecology, Food Science, or Human Nutritional Sciences. The faculty also offers a two-year pre-veterinary program for students who plan to pursue a Doctor of Veterinary Medicine degree. One of the focuses of the Faculty is upon the agricultural industry with professions dedicated to the production, processing, and marketing of food and bioresources. Additionally, the agriculture based B.Sc. degree prepares students to tackle a range of career opportunities that extend into other sectors of the economy. Professional agriculturists hold positions in extension, resource management and conservation, teaching, research and business; professional food science graduates employment in similar positions related to food manufacturing and processing; and professional human

nutrition graduates enjoy exciting careers in dietetics, institutional administration, education, and research. Graduates from the Faculty make important contributions to the economy and health of Manitoba, Canada, and the world.

Diploma in Agriculture Program

The two-year Agriculture Diploma program offers a practical education for students interested in operating a farm or working in the agrifood industry. Although many diploma graduates return to family farms after graduating, an increasing number can be found working for farm supply companies, feed companies, financial institutions and grain handling companies, as well as doing technical work for various government agencies.

The Agriculture Diploma program covers a wide range of agricultural subjects, from production through to marketing and business management. Communication and leadership skills also receive considerable emphasis. The program includes a number of engaging assignments as well as a major project that relates directly to the student's individual farm or business interests. The program extends over two winters. Classes begin in late September and end in early April to accommodate students with obligations to plant and harvest crops.

1.2 Available Programs, Options and Minors

Bachelor of Science in Agriculture

Available Majors:

- Agronomy
- Animal Systems
- Plant Biotechnology

Bachelor of Science in Agribusiness

Available Concentrations:

- Agricultural Economics
- Agribusiness Management
- International Agribusiness

Bachelor of Science in Agroecology

Bachelor of Science in Food Science

Available Options:

- Science Option
- Business Option

Bachelor of Science in Human Nutritional Sciences

Available Majors:

- Foods Option
- Food Industry Option
- Nutrition Option

Bachelor of Science in Human Nutritional Sciences (Second Degree)

Available Options:

- Foods
- Dietetics Preparation
- Human Nutrition

Bachelor of Science in Human Nutritional Sciences (Degree agreement with Red River College Culinary Sciences)

Available Options

- Foods
- Human Nutrition

Pre-Veterinary Program (Degree)**Diploma in Agriculture**

| | |
|--------------------|----------------------|
| Available Options: | Business Management |
| | Crop Management |
| | Livestock Management |
| | General Agriculture |

Cooperative Education Program (Degree and Diploma Options)**Interfaculty Option in Aging****Minors (Degree Programs Only)**

| | |
|-------------------|--------------------------------|
| Available Minors: | Animal Systems |
| | Crop Protection |
| | Entomology |
| | Food Science |
| | Plant Biotechnology |
| | Soil Science |
| | Human Nutrition and Metabolism |

Internationally Educated Agrologists Post-Baccalaureate Diploma Program (IEAP)**1.3 Professional Designations****Manitoba Institute of Agrologists (MIA)**

Graduates of the B.Sc. (Agriculture), B.Sc. (Agribusiness), B.Sc. (Agroecology) and B.Sc. (Food Science) degrees may be eligible to practice agrology as members of the Manitoba Institute of Agrologists. An agrologist is a "person who is qualified to teach or to practice the science and art of agriculture or to conduct scientific experiments and research in relation thereto." The motto of the profession is *Ciba ad Omnes* (Food for All). Students/prospective students should contact MIA directly for more information on the practice of agrology in Manitoba.

Canadian Institute of Food Science and Technology (CIFST)

B.Sc. (Food Science) graduates are eligible to become members of CIFST, a professional society associated with the manufacturing, processing and packaging of food.

Registered Dietitian (RD)

If eligible, students from the B. Sc. (Human Nutritional Sciences) in the Partnership for Dietetic Education and Practice (PDEP) accredited undergraduate degree with courses as stipulated, may apply for a dietetic internship either through Pre-Selection with the Manitoba Partnership Dietetic Education Program (MPP) or in the final year of their degree and/or after completion of their degree by application through the Dietitian's of Canada Program Match Program for dietetic internship programs to become a Registered Dietitian.

SECTION 2: Admission Requirements

The following is a summary of the admission requirements for the Faculty of Agricultural and Food Sciences Degree and Diploma Programs. Equivalent academic courses completed at recognized universities elsewhere will be considered. All admission requirements, as well as

application deadline dates and forms, are included in an applicant information bulletin.

2.1 Admission Requirements for Degree Programs

Students can enter the four-year degree programs in the Faculty of Agricultural and Food Sciences in two ways:

1. Direct Entry from high school
2. Advanced Entry - A minimum 24 credit hours of university-level coursework with a minimum adjusted GPA of 2.0.

Each entry path has specific course and credit requirements that you must meet to be considered for admission.

Review the details outlined here to ensure your high school courses and credit hours match the requirements for the entry path and the program you're interested in pursuing.

Direct Entry (all degree programs)

| General Admission Requirements | Category Requirements |
|--|---|
| MB High School Graduation (5 full credits at the Grade 12 level in courses designated S, G, or U) | A minimum 85% average over the following, with no less than 60% in each course: <ol style="list-style-type: none"> 1. English 40S 2. Applied Mathematics 40S or Pre-Calculus Mathematics 40S 3. One of Biology, Chemistry, Physics or Computer Science 40S |

Advanced Entry

B.Sc. in Agribusiness, Agriculture, Food Science, Agroecology and Human Nutritional Sciences - A minimum of 24 credit hours of University-level coursework with a minimum adjusted grade point average of 2.0.

Please note: If the number of eligible candidates exceeds the available spaces, an adjusted grade point average higher than the minimum may be required.

For full details regarding admissions requirements, application deadlines and to apply, please consult the [University of Manitoba Admissions page](#).

High School Requirements for prerequisites in required degree courses:

| | English 40S | Math 40S - Pre-Calculus | Math 40S - Applied | Biology 40S | Chemistry 40S | Physics 40S |
|---------------------------|-------------|-------------------------|--------------------|------------------------------|---------------|-------------|
| B.Sc. Agribusiness | 60% | 60% | | recommended but not required | | |
| B.Sc. Agriculture | 60% | 60% OR | 70% | 50% | 50% | |

| | | | | | | |
|--|-----|-----------|-----|--|-----|-----|
| (Agronomy, Animal Systems, Plant Biotechnology) | | | | | | |
| B.Sc. Agroecology | 60% | 60% OR | 70% | 50% | 50% | |
| B.Sc. Food Science | 60% | 60% | | 50% | 50% | |
| B.Sc. Human Nutritional Sciences | 60% | 50% OR | 50% | Required for students taking BIOL 1020 | 50% | |
| Pre-Veterinary Studies | 60% | 60% OR | 70% | 50% | 50% | 50% |

Transfers of Credit

Students may be able to use transfer credits towards their individual degree programs and should consult Student Services to determine applicable courses. More information about transferring credits can be found on the [Transfer Credit webpage](#).

2.2 Admission Requirements for the Diploma Program

Direct Entry

The Direct Entry option is for students who have graduated from high school and have not attended any post-secondary institutions, or have completed fewer than 24 credit hours at a recognized university or college. Applicants must meet the admission requirements as listed in the [Direct Entry Application Information Bulletin](#). Applicants who would otherwise fall under the Direct or Advanced Entry Category but who do not meet the academic requirements may apply under the Special Consideration Category.

Direct Entry requires a minimum 60% average over the following:

1. English 40S
2. Mathematics 40S or 45S
3. One of Biology, Chemistry, Physics, or Computer Science 40S

If the number of eligible candidates exceeds the available spaces, an academic average higher than the minimum may be required for admission. The equivalent level of studies from other Canadian provinces or other countries will be accepted.

Advanced Entry

[The Advanced Entry option](#) is for applications who have completed one year or more of studies in another faculty at the University of Manitoba or another recognized post-secondary institution. Applicants in this category must have fulfilled all eligibility requirements as described below.

Applicants must:

1. Complete a minimum of 24 credit hours from a recognized university or college

2. Achieve a Cumulative Grade Point Average (CGPA) of 2.0 or higher (see Section 4: Selection Process, A. Calculation of the Cumulative Grade Point Average (CGPA)).

If the number of eligible candidates exceeds the available spaces, a CGPA higher than the minimum may be required for admission.

Special Consideration Category – Agriculture Diploma

This category is for students whose academic records may not be competitive in the selection process. Such students may apply for Special Consideration only if they meet the criteria for Special Consideration as described below. Only a limited number of applicants may be admitted under the Special Consideration Category. Meeting the eligibility requirements of this category is not a guarantee of admission.

Applicants would be eligible for Special Consideration if they are considered by the Diploma Selection Committee because they either:

- have academic records that are not a true reflection of their academic and intellectual merit because of their *exceptional* life circumstances (exceptional circumstances include physical, societal, educational, economic, medical, geographical and other obstacles encountered by the applicant),
- or
- display skills and attributes in any or all personal, work, or community activities which indicate that they can make a significant contribution to the Agriculture Diploma Program or can make a significant contribution to Manitoba's agri-food industry and/or rural and northern Indigenous communities.

Students who apply for Special Consideration must submit the following documents:

- a) a **typed personal statement** not to exceed 800 words which includes the specific reasons why their application merits consideration within the Special Consideration Category.
- b) a **typed personal resume**.
- c) **three Letters of Recommendation**.

Those candidates who are applying on the basis of *exceptional* circumstances must submit **supporting documentation** to verify their exceptional circumstances. (For example, if a student is applying on the basis of *exceptional* medical circumstances, the student must submit official supporting documentation from a qualified medical professional.)

The Diploma Selection Committee composed of the Director, the Agriculture Diploma Program Academic Advisor and one Instructor, will review the application and supporting documentation. All candidates will be interviewed by the Selection Committee and may be administered an academic skills test. Criteria used when evaluating Special Consideration applicants include the applicant's maturity, scholastic ability, agricultural experience, motivation, leadership, and/or demonstrated initiative relevant to an agricultural career. Up to 10% of admission spaces are available to Special Consideration Candidates recommended by the Diploma Selection Committee.

Transfer of Credit

Courses taken within the degree program in the Faculty of Agricultural and Food Sciences as well as outside the Faculty of Agricultural and Food Sciences or outside of the University of Manitoba may also qualify for credit towards the diploma if the course content and the student's performance are deemed appropriate by the department concerned.

2.3 Admission Requirements for the Internationally Educated Agrologists Post-Baccalaureate Diploma Program (IEAP)

Admission suspended

Individuals interested in the Internationally Educated Agrologists Post-Baccalaureate Diploma Program must meet the following Admission requirements:

1. Have a degree in agriculture from another country
2. Be a permanent resident or Canadian Citizen
3. Have met the English Language Proficiency Requirements
4. Have a valid driver's license
5. Have a letter from the Manitoba Institute of Agrologist (MIA) indicating their application for registration has been accepted.

SECTION 3: Faculty Academic Regulations

3.1 Academic Regulations for all Degree Programs

The provisions of the chapter, [General Academic Regulations and Requirements](#), and the chapter, [University Policies](#), apply to all students. In addition, the Faculty of Agriculture and Food Sciences has regulations and requirements, published below, that apply specifically to specific degree programs.

Degree GPA (DGPA)

A student's Degree Grade Point Average (DGPA) will be determined from the number of effective courses completed at each point of assessment. The effective courses consist of all courses applicable to the degree program, including repeated, extra and failed course attempts.

Scholastic Requirements

A minimum passing grade of "D" in prescribed courses is required of all students in the faculty. A higher grade may be required for prerequisite purposes.

Elective courses in which passing grades were not obtained need not be repeated however if taken after admitted to the degree program will count towards the DGPA.

In order to graduate, students must obtain a minimum DGPA of 2.0 calculated over a minimum of 120 credit hours before graduation.

Course Load Limits

A normal "course load" is 30 credit hours during the regular session, with 15 credit hours normally taken in each academic term. A student may attempt a maximum of 39 credit hours during the regular session, with not more than 21 credit hours in an academic term, provided the student is in a good academic standing and has completed at least 24 credit hours in the previous regular session.

Course Availability

All courses listed in this *Calendar* are not offered every year. The course(s) offered for the current academic terms are published in the *Aurora Class Schedule*.

Prerequisite and Corequisite Definitions

The [Registrar's Office](#) defines prerequisite and corequisite courses.

Dean's Honour Roll

Students who have completed a minimum of 12 credit hours of study in either the Fall or Winter terms and who achieved a Term GPA of 3.50 or higher will be placed on the Dean's Honour Roll. Graduating students who achieved Dean's Honour Roll status in the previous term but complete less than 12 credit hours in their final term with a Term GPA of 3.5 or greater, will be eligible to remain on the Dean's Honour Roll.

Graduation With Distinction

Degrees with distinction will be awarded to students who have achieved a minimum DGPA of 3.75 upon graduation.

Repeating courses

Please refer to the University of Manitoba's Repeated Course Policy in the University Policies and Procedures section of this *Calendar*.

Academic Assessment Standards

Formal academic assessments are performed following each term of registration for all Faculty of Agricultural and Food Sciences students who have completed 3 or more credit hours.

Minimum Met

Students must achieve a DGPA of 2.0 at each point of assessment in order to have fulfilled the minimum requirements from the Faculty.

Students who do not have a minimum DGPA of 2.0 will be placed on Academic Warning or Probation or Suspension based on the following conditions:

Academic Warning

When a student's DGPA drops below a 2.0 for the first time they will be placed on Academic Warning. Once placed on Academic Warning, the student will be placed on hold and must meet with an Academic Advisor to get an override to proceed to register for another term. A student can only be placed on Academic Warning once while in the program.

Probation

When on Academic Warning, if a student obtains a TGPA below a 2.0 on their next assessment then they are placed on Probation. The student will be placed on hold and must meet with an Academic Advisor to get an override to proceed to register for another term.

If a student has been on Academic Warning previously, and then achieved a Satisfactory assessment, has DGPA below 2.0 and then obtains a TGPA below 2.0 they are automatically placed on Probation from Satisfactory.

Satisfactory

Once on Academic Warning or Probation a student needs to obtain a TGPA of 2.0 or higher for the next assessment to be Satisfactory. Students who are assessed as satisfactory are able to register without restrictions.

Suspension

If on Probation, a student has a TGPA below a 2.0 on their next assessment then they are placed on Suspension. The notation "*Academic Suspension for 1 Year*" will be recorded on the student's transcript. After remaining out of the faculty for one calendar year, may attempt reinstatement

Maximum Attempts

A maximum of 150 credits hours may be attempted to obtain the 120 credit hours required to graduate. This means that a student cannot accumulate extra courses, repeats (e.g. retake a course to obtain a higher grade) and/or fails which result in more than 30 credit hours over the duration of their program.

Suspension (All Attempts Used)

Where it is mathematically impossible for a student to complete the degree within the maximum 150 credit hours (i.e. has exceeded 30 credit hours of attempts, as described above) a student is suspended and after remaining out of the faculty for one calendar year, may attempt reinstatement.

Appeals

Appeals of academic assessments must be submitted to the Dean's Office of the Faculty of Agricultural and Food Sciences within 10 working days of the date of notification of action sent to the student.

Reinstatement Policy

After remaining out of the Faculty for one academic year on suspension, a student can attempt reinstatement by completing a minimum of 12 credit hours in one term with no grade less than D and a term grade point average of at least 2.0. Upon success, the student will start their program afresh, with previous grades of 'C' or better applicable to the program, as well as the courses attempted for reinstatement. A student who does not meet the requirements as listed above will be required to withdraw from the Faculty. A student, who has been reinstated and is then placed on academic suspension for the second time, will not be permitted to attempt reinstatement again, after the one year suspension is served and will be required to withdraw from the Faculty.

Time Limits and Lapse of Credit

The normal maximum time allowed for the completion of the Agriculture degree programs is ten years from the date of first registration. A candidate for a degree will not be permitted to count toward that degree any courses taken more than ten year prior to the date of awarding the degree.

Re-registration of Returning Degree Students

All degree students who were previously admitted to the Faculty of Agricultural and Food Sciences who have not been in attendance for one or more years must re-register through the Dean's Office. Students returning to the faculty will be subject to compliance with the current program requirements.

Residence Requirements for Degree Programs

The residence requirements for the degrees offered by the Faculty of Agricultural and Food Sciences, can be found in the chapter, General Academic Regulations and Policy.

Supplemental Exams

Supplemental Exams are not permitted in the Faculty of Agricultural and Food Science Degree Programs.

University Written English and Mathematics Requirements

All students are required to complete a university Written English and Mathematics requirement within the first 60 credit hours of their program. This requirement is described in the chapter, General Academic Regulations and Requirements of the *Academic Calendar*.

The Human Nutritional Sciences written (W) and mathematics (M) requirements are satisfied by required courses HNSC 2000 and STAT 1000. HNSC 2000 will be available to students upon admission to the Human Nutritional Sciences program.

For the degree programs Agriculture, Agribusiness, Agroecology, and Food Science the written (W) requirement can be met by AGRI 2030 Technical Communications, or by ENGL 1200, or ENGL 1300. (NOTE: Technical Communications cannot be taken in University 1). The mathematics (M) requirement is satisfied by the required MATH and STAT courses in the programs.

Transfer of Credit

See the chapters on [Admissions and Academic Regulations and Requirements](#) at the beginning of this *Calendar*.

3.2 Academic Regulations for Diploma Program**Requirements for Graduation**

To qualify for the Diploma in Agriculture a student must have attained a DGPA of at least 2.00 with a minimum grade of "D" in courses totalling 93 credit hours including all those on the prescribed list to a maximum of 105 credit hours. Elective courses in which failures were obtained may be substituted for and need not be repeated, except to help meet the requirements of the scholastic standards described previously.

Part-Time vs. Full-Time Status for Students

A student is considered to be equivalent to full-time if at least 60 per cent of the normal full-time course load is attempted in the academic term or session.

Scholastic Standards

Degree GPA: A student's Degree Grade Point Average (DGPA) will be determined from the number of effective courses completed at each point of assessment. The effective courses consist of all courses applicable to their program, including repeated, extra and failed course attempts.

Repeating Courses: A student may repeat any course for the purpose of attaining a better grade. All attempts will be used in the DGPA calculations.

Academic Assessment Standards

Formal academic assessments are performed following each term of registration for all Faculty of Agricultural and Food Sciences students who have completed 3 or more credit hours.

Minimum Met

Students must achieve a DGPA of 2.0 at each point of assessment in order to have fulfilled the minimum requirements from the Faculty.

Students who do not have a minimum DGPA of 2.0 will be placed on Academic Warning or Probation or Suspension based on the following conditions:

Academic Warning

When a student's DGPA drops below a 2.0 for the first time they will be placed on Academic Warning. Once placed on Academic Warning, the student will be placed on hold and must meet with an Academic Advisor to get an override to proceed to register for another term. A student can only be placed on Academic Warning once while in the program.

Probation

When on Academic Warning, if a student obtains a TGPA below a 2.0 on their next assessment then they are placed on Probation. The student will be placed on hold and must meet with an Academic Advisor to get an override to proceed to register for another term.

If a student has been on Academic Warning previously, and then achieved a Satisfactory assessment, has DGPA below 2.0 and then obtains a TGPA below 2.0 they are automatically placed on Probation from Satisfactory.

Satisfactory

Once on Academic Warning or Probation a student needs to obtain a TGPA of 2.0 or higher for the next assessment to be Satisfactory. Students who are assessed as satisfactory are able to register without restrictions.

Suspension

If on Probation, a student has a TGPA below a 2.0 on their next assessment then they are placed on Suspension. The notation "*Academic Suspension*" will be recorded on the student's transcript. After remaining out of the Faculty/School for one academic term, a student may attempt reinstatement.

Reinstatement Policy

Reinstatement requires the approval of the Director. Students should contact the Academic Advisor for further instructions. If reinstatement is granted, all courses from the student's previous attempt will be transferred, except those with a grade of "D" or "F".

Appeals

Appeals of academic assessments must be submitted to the Director of the School of Agriculture within 10 working days of the date of notification of action sent to the student.

Supplemental Exams

Any student in good academic standing for the current term (i.e., not on probation or suspension or academic warning) is eligible to write a supplemental exam. Only one supplemental exam (in a diploma level course offered by the Faculty of Agricultural and Food Sciences) will be permitted during their program and only in a course in which a "D" or "F" was received. The student must have written the final exam. The supplemental exam shall be considered as a replacement for the final exam only, not for term work. Accordingly, students who are granted incomplete or deferred status may not be eligible. When supplemental exams are written, the mark will replace the final exam grade and will be used to recalculate the final grade in the course.

Time Limits and Lapse of Credit

The normal maximum time allowed for the completion of the Agriculture Diploma is five years from the date of first registration. A candidate for a Diploma in Agriculture will not be permitted to count toward that diploma any courses taken more than five years prior to the date of awarding the diploma.

Students who desire an exemption from this maximum must apply, in writing, to the Director.

Dean's Honour Roll

Students who have completed a minimum of 18 credit hours of study in either the Fall or Winter term and who have achieved a Term GPA of 3.5 or higher will be placed on the Dean's Honour Roll. Graduating students who achieved Dean's Honour Roll status in their final term with a Term GPA of 3.5 or greater, will be eligible to remain on the Dean's Honour Roll.

Graduation with Distinction

The Diploma in Agriculture with Distinction will be awarded to Diploma students who obtain a DGPA of 3.75 or better with 75 per cent of the courses taken within the Diploma in Agriculture.

Agriculture Diploma to Degree Transfer of Credit Hours

School of Agriculture graduates who have obtained a GPA of 3.0 in the Agriculture Diploma program are eligible for 60 Credit Hours of transfer into the following degree programs: Bachelor of Science (Agribusiness), Bachelor of Science (Agroecology), Bachelor of Science (Agriculture) – Agronomy or Animal Systems, when transferring into the same academic stream. If students choose to change streams it may not be possible to transfer the entire 60 Credit Hours due to program requirements; students should contact an Academic Advisor in the Student Services Office for details. Students wishing to enter a degree program without the above qualifications will be evaluated on a course-by-course basis. This transfer articulation is applicable to diploma graduates who have entered the degree program as of September 2005. Students who are admitted to Agriculture Diploma Program in Fall 2017 and prior are eligible.

Students wishing to enter a degree program without the above qualifications, but having completed some diploma courses, will be evaluated on a course-by-course basis according to the following table:

| Course by Course Transfers of Credits Diploma to Degree | | | | |
|--|-----------|-------------------------------|--|-----------|
| Diploma Course | CH | Minimum grade required | Degree Course | CH |
| BIOE 0600 Farm Machinery | 4 | C+ | BIOE 2090 Machinery for Ag Production | 3 |
| ANSC 0420 Animal Biology & Nutrition | 4 | C+ | ANSC 2500 Animal Production | 3 |
| ANSC 0670 Beef Production and PLNT 0750 Forage & Pasture Mgmt | 4+4 | C+ | ANSC 4520 Ruminant Production Systems Meat | 3 |
| ANSC 0680 Dairy Cattle Production & Mgmt and PLNT 0750 Forage & Pasture Mgmt | 4+4 | C+ | ANSC 4530 Ruminant Production Systems Milk | 3 |
| ANSC 0600 Animal Health and Welfare and ANSC 0690 Swine Production | 3+4 | C+ | ANSC 4540 Monogastric Production Systems | 3 |
| ANSC 0600 Animal Health & Welfare and ANSC 0700 Poultry Production | 3+4 | C+ | ANSC 4550 Avian Production Systems | 3 |

| | | | | |
|---|-----|----|---|---|
| ENTM 0620 Pest Mgmt & Farm Insects | 4 | C+ | ENTM 0010 Unallocated | 3 |
| PLNT 0410 Cereal & Oilseeds | 4 | C+ | PLNT 2500 Crop Production | 3 |
| PLNT 0790 Landscape Horticulture and PLNT 0800 Diversification with Horticultural Crops | 4+4 | C+ | PLNT 2510 Fundamentals of Horticulture | 3 |
| PLNT 0770 Weed Mgmt | 4 | C+ | PLNT 3540 Weed Science | 3 |
| SOIL 0420 Soil Productivity & Land Use and DAGR 0420 Intro Soils & Crops | 4+4 | C+ | SOIL 3600 Soils and Landscapes in Our Environment | 3 |
| SOIL 0620 Soil Conservation & Mgmt and BIOE 0690 Water Mgmt | 4+4 | C+ | SOIL 4510 Soil & Water Mgmt | 3 |
| ABIZ 0440 Ag Econ & Marketing 1 and ABIZ 0450 Ag Econ & Marketing 2 | 4+4 | C+ | ABIZ 2510 Agricultural Marketing | 3 |
| ABIZ 0730 Financial Risk Mgmt | 3 | C+ | ABIZ 3120 Commodity Futures Markets | 3 |
| The former ABIZ 0680 Ag Business Mgmt | 4 | C+ | ABIZ 1000 Ag Business Mgmt | 3 |
| ABIZ 0720 Farm Business Mgmt | 4 | C+ | ABIZ 3530 Farm Management | 3 |
| DAGR 0680 Mgmt Plan I and DAGR 0690 Mgmt Plan Project II | 3+5 | C+ | ABIZ 0010 Unallocated | 3 |
| DAGR 0420 Intro Soils & Crops | 4 | C+ | AGRI 1500 Natural Resources & Ag Production | 3 |
| DAGR 0410 Communications | 4 | B | AGRI 2030 Technical Communications | 3 |

Note that courses from the diploma program are transferred to the degree program as a credit only, without the grade carried forward.

The Bachelor of Science (Agriculture) - Plant Biotechnology, and the Bachelor of Science (Food Science) are not part of this articulation. Students should contact the Student Services Office for details on transfer into these programs.

Courses taken outside the Faculty of Agricultural and Food Sciences or outside of the University of Manitoba may also qualify for credit towards the degree if the course content and the student's performance are deemed appropriate by the department concerned.

SECTION 4: Program and Graduation Requirements

4.1 Agronomy Program

The Agronomy program will provide an integrated and comprehensive study of the factors and processes associated with the science of crop production and the management and use of land and water resources. The program emphasizes land management and the sustainability of agronomic and horticultural crop systems.

Faculty Core

| Course Number | Course Name | Credit Hours |
|---|--|----------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| One of the following two courses: | | |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

NOTES:

1) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

The four year program leading to the B.Sc. (Agriculture) is a professional program which prepares graduates for careers in the public and private sectors related to the production and distribution of agricultural commodities. Graduates will also be prepared to enter directly into a program of graduate studies. In addition to the faculty core courses, all students are required to take the following B.Sc. (Agriculture) degree core requirements and the respective program core courses.

Within the B.Sc. (Agriculture) students will elect one of three programs of study or specialities -- Agronomy, Animal Systems or Plant Biotechnology. Students will normally begin the program of study of their choice in second year.

B.Sc. (Agriculture) Degree Core

| Course Number | Course Name | Credit Hours |
|---------------------------|----------------------------|--------------|
| AGEC 2370 (BIOL 2300) | Principles of Ecology | 3 |
| CHEM 2770 (MBIO 2770) | Elements of Biochemistry 1 | 3 |
| PLNT 2520 (BIOL 2500) | Genetics | 3 |
| Total Credit Hours | | 9 |

Agronomy Core (Required)

| Course Number | Course Name | Credit Hours |
|---------------------------|---|--------------|
| ABIZ 2510 | Introduction to Agricultural and Food Marketing | 3 |
| ANSC 2500 | Animal Production | 3 |
| BIOL 2242 | The Flowering Plants | 3 |
| PLNT 2500 | Crop Production | 3 |
| PLNT 3400/ BIOL 3400 | Plant Physiology | 3 |
| PLNT 3510 | Cropping systems | 3 |
| PLNT 4590 | Physiology of Crop Plants | 3 |
| SOIL 3600 | Soils and Landscapes in Our Environment | 3 |
| SOIL 4510 | Soil and Water Management | 3 |
| SOIL 4520 | Soil Fertility | 3 |
| Total Credit Hours | | 30 |

Restricted Electives

| Course Number | Course Name | Credit Hours |
|--|----------------------------|--------------|
| Group 1 – Two courses from the following: | | 6 |
| ENTM 3170 | Crop Protection Entomology | |
| PLNT 3540 | Weed Science | |
| PLNT 4270 | Plant Disease Control | |
| Group 2 – One course from the following: | | 3 |

| | | |
|---|---|-----------|
| ANSC 4410/PLNT 4410 | Grassland Agriculture: Plant, Animal, and Environment | |
| PLNT 2510 | Fundamentals of Horticulture | |
| PLNT 3520 | Principles of Plant Improvement | |
| Group 3 – One course from the following: | | 3 |
| One 3000 or 4000 level course (3 credit hours) from SOIL (Soil Science), in addition to those courses that are already part of the Agronomy Core. | | |
| Group 4 – One course from the following: | | 3 |
| BIOE 2222 | Precision Agriculture Concepts and Applications | |
| BIOE 2090 | Machinery for Agriculture Production | |
| BIOE 4500 | Water Management | |
| BIOE 4520 | Crop Preservation and Handling | |
| Total Credit Hours | | 15 |
| Free Electives | | 27 |

Year 1

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| AGRI 1500 | Natural Resources and Primary Agriculture Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry OR | |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| STAT 1000 OR Elective | Basis Statistical Analysis 1 OR Elective | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math course from the following: | | 3 |
| MATH 1200 | Elements of Discrete Mathematics* | |
| MATH 1210 | Techniques of Classical and Linear Algebra | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices for Management and Social Sciences* | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

*MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Year 2

| Course Number | Course Name | Credit Hours |
|---------------|--------------------------|--------------|
| ABIZ 1000 | Agribusiness Management | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 2242 | The Flowering Plants | 3 |

| | | |
|--|---|-----------|
| CHEM 2770/ MBIOL 2770 | Elements of Biochemistry 1 | 3 |
| PLNT 2500 | Crop Production | 3 |
| PLNT 2520/ BIOL 2500 | Genetics | 3 |
| SOIL 3600 | Soils and Landscapes in Our Environment | 3 |
| STAT 1000 OR Elective | Basic Statistical Analysis OR Elective | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 9 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| ABIZ 2510 | Introduction to Agricultural and Foods Marketing | 3 |
| AGEC 2370/BIOL 2300 | Principles of Ecology | 3 |
| ANSC 2500 | Animal Production | 3 |
| PLNT 3400/BIOL 3400 | Plant Physiology | 3 |
| PLNT 4590 | Physiology of Crop Plants | 3 |
| STAT 1000 OR Elective if taken in Year One | Basis Statistical Analysis 1 OR Elective if taken in Year One | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 12 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|---------------------------|--------------|
| PLNT 3510 | Cropping Systems | 3 |
| SOIL 4510 | Soil and Water Management | 3 |
| SOIL 4520 | Soil Fertility | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 21 |
| Total Credit Hours | | 30 |

4.2 Bachelor of Science (Agriculture) – Animal Systems

The Animal Systems program will provide an integrated and comprehensive study of the factors and processes associated with the science of animal production. The program will be based on a strong foundation in the scientific disciplines underlying growth and reproduction in animals and how they respond to a range of environmental systems and constraints.

Faculty Core

| Course Number | Course Name | Credit Hours |
|---------------|--|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |

| | | |
|---|---|----------------|
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| One of the following two courses: | | |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

- 1) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

The four year program leading to the B.Sc. (Agriculture) is a professional program which prepares graduates for careers in the public and private sectors related to the production and distribution of agricultural commodities. Graduates will also be prepared to enter directly into a program of graduate studies. In addition to the faculty core courses, all students are required to take the following B.Sc. (Agriculture) degree core requirements and the respective program core courses.

B.Sc. (Agriculture) Degree Core

| Course Number | Course Name | Credit Hours |
|---------------------------|----------------------------|--------------|
| AGEC 2370 (BIOL 2300) | Principles of Ecology | 3 |
| CHEM 2770 (MBIO 2770) | Elements of Biochemistry 1 | 3 |
| PLNT 2520 (BIOL 2500) | Genetics | 3 |
| Total Credit Hours | | 9 |

Within the B.Sc. (Agriculture) students will elect one of three programs of study or specialties -- Agronomy, Animal Systems or Plant Biotechnology. Students will normally begin the program of study of their choice in second year.

| Program Core – Animal Systems (Required) | | |
|---|---|--------------|
| Course | Course Name | Credit Hours |
| ABIZ 2510 | Introduction to Agricultural and Food Marketing | 3 |
| ANSC 2500 | Animal Production | 3 |

| | | |
|---|---|--------------|
| ANSC 2510 | Anatomy and Physiology 1: Control Systems | 3 |
| ANSC 2520 | Anatomy and Physiology 2: Nutrient Utilization | 3 |
| ANSC 3500 | Principles of Animal Genetics | 3 |
| ANSC 3510 | Feeds and Feeding | 3 |
| ANSC 3520 | Animal Reproduction | 3 |
| ANSC 3530 | Animal and Its Environment | 3 |
| ANSC 4560 | Issues in Animal Agriculture | 3 |
| CHEM 2780/ MBIO 2780 | Elements of Biochemistry 2 | 3 |
| PLNT 2500 | Crop Production | 3 |
| Total Credit Hours | | 33 |
| Restricted Electives | | |
| Group 1 - One course from the following: | | 3 |
| ANSC 4520 | Ruminant Production Systems - Meat | |
| ANSC 4530 | Ruminant Production Systems - Milk | |
| Group 2 - One Course from the following: | | 3 |
| ANSC 4540 | Monogastric Production Systems | |
| ANSC 4550 | Avian Production Systems | |
| Group 3 - Two courses from the following: | | 6 |
| ANSC 2530 and AGRI 2190 | Nutritional Toxicology and Toxicology Principles | |
| ANSC 2540 | Companion animal Nutrition and Management | |
| ANSC 4090 | Livestock Problems | |
| ANSC 4220 | Animal Science Investigations | |
| ANSC 4280 | Applied Animal Genetics | |
| ANSC 4410/ PLNT 4410 | Grassland Agriculture: Plant, Animal and Environment | |
| ANSC 4500 | Animal Health | |
| ANSC 4510 | Domesticated Animal Behaviour | |
| ANSC 4570 | Advanced Applied Animal Nutrition | |
| ENTM 3160 | Veterinary and Wildlife Entomology | |
| FOOD 3500 | Processing or Animal Food Products | |
| PLNT 2530 | Plant Biotechnology | |
| Group 4 - One course from the following: | | 3 |
| GMGT 2070 | Organizational Behaviour | |
| HRIR 2440 | Human Resource Management | |
| Total Credit Hours | | 15 |
| Free Electives | | 24 CH |

Note: ANSC 2530 Nutritional Toxicology and ANSC 4280 Applied Animal Genetics will not be offered in 2019-20.

Suggested Progression of Animal Systems Program:

Year 1

| Course | Course Name | Credit Hours |
|------------------------------|---|--------------|
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 or CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| STAT 1000 Or Elective | Basis Statistical Analysis Or Elective | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |

| | | |
|-------------------------------------|---|-----------|
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math Course from the following: | | 3 |
| MATH 1200 | Elements of Discrete Mathematics | |
| MATH 1210 | Techniques of Classical and Linear Algebra | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices for Management and Social Sciences | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

*MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Year 2

| Course | Course Name | Credit Hours |
|---|---|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 2030 | Technical Communications | 3 |
| ANSC 2500 | Animal Production | 3 |
| ANSC 2510 | Anatomy and Physiology 1 | 3 |
| ANSC 2520 | Anatomy and Physiology 2 | 3 |
| CHEM 2770/ MBIO 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780/ MBIO 2780 | Elements of Biochemistry 2 | 3 |
| PLNT 2500 | Crop Production | 3 |
| PLNT 2520/ BIOL 2500 | Genetics | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 3 |
| Total Credit Hours | | 30 |

Year 3

| Course | Course Name | Credit Hours |
|---|---|--------------|
| ABIZ 2510 | Introduction to Agricultural and Food Marketing | 3 |
| AGEC 2370/ BIOL 2300 | Principles of Ecology | 3 |
| ANSC 3500 | Principles of Animal Genetics | 3 |
| ANSC 3510 | Feeds and Feeding | 3 |
| ANSC 3530 | The Animal and Its Environment | 3 |
| STAT 1000 Or Elective if taken in Year One | Basis Statistical Analysis 1 Or Elective if taken in Year One | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 12 |
| Total Credit Hours | | 30 |

Year 4

| Course | Course Name | Credit Hours |
|-----------|------------------------------|--------------|
| ANSC 3520 | Animal Reproduction | 3 |
| ANSC 4560 | Issues in Animal Agriculture | 3 |
| | Restricted Elective Group 1 | 3 |
| | Restricted Elective Group 2 | 3 |

| | |
|---|-----------|
| Restricted/Free Electives/Philosophy/Co-op | 18 |
| Total Credit Hours | 30 |

4.3 Pre-Veterinary Program

Intro

A pre-veterinary program is offered to students who plan to take the degree Doctor of Veterinary Medicine. Pre-veterinary students whose academic standing is acceptable may be admitted to the Western College of Veterinary Medicine (WCVN), University of Saskatchewan. Acceptance into the Western College of Veterinary Medicine from the pre-veterinary program at the University of Manitoba is normally restricted to residents of Manitoba. Students from outside Manitoba may be accepted as residents of their own province or country. Students entering the pre-veterinary program are responsible for establishing their residence status.

Western College of Veterinary Medicine, Saskatoon

Two full years of university training are required for admission comprised of 60 credit hours during which credit must be secured in the number of courses considered a standard load in the curriculum in which they are obtained. The deadline for applications is December.

The program of Pre-Veterinary study must include six (6) credit hours of: English*, three (3) credit hours in Physics, Biochemistry, Microbiology, six (6) credit hours of Mathematics or Statistics; nine (9) credit hours in Biology or Zoology (including *three (3) credit hours in* genetics), Chemistry (including *three (3) credit hours in* organic chemistry); plus electives sufficient to complete two full years. (*This requirement can also be met by taking AGRI 2030 Technical Communications, and one half course in philosophy.)

The following program is designed to meet the above requirements within the constraints of present course offerings. Some modifications may be possible.

First Year/University 1

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| MATH 1200 OR MATH 1210 OR MATH 1300 OR MATH 1310 OR MATH 1500 OR MATH 1520 | Elements of Discrete Mathematics | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |

| | | |
|---------------------------|--|-----------|
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology: Biological Diversity, Function, and Interactions | 3 |
| ENGL 1200* OR ENGL 1300 | Representative Literary Works (6) or Literature Since 1900 (6) | 6 |
| Elective | | 3 |
| Total Credit Hours | | 30 |

NOTE: * In place of ENGL 1200 or ENGL 1300, Technical Communications (AGRI 2030) may be taken in second year; and one of the following Philosophy courses: PHIL 1290, PHIL 2740, PHIL 2750, PHIL 2830.

Second Year

| Course Number | Course Name | Credit Hours |
|---------------------------|---|--------------|
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 2770 (MBIO 2770) | Elements of Biochemistry 1 | 3 |
| CHEM 2780 (MBIO 2780) | Elements of Biochemistry 2 | 3 |
| PHYS 1020 | General Physics 1 | 3 |
| STAT 1000 | Basic Statistical Analysis | 3 |
| PLNT 2520 (BIOL 2500) | Genetics | 3 |
| MBIO 1010 | Microbiology 1 | 3 |
| Electives | | 9 |
| Total Credit Hours | | 30 |

Please note:

The courses outlined here relate to the entrance requirements for WCVN. Students intending to apply to a different Veterinary College should consult with that College and the Animal Systems Advisor.

4.4 Bachelor of Science (Agriculture) – Plant Biotechnology

The Plant Biotechnology Program will provide an integrated and comprehensive study of genetic, physiological and pathological factors and modern technological processes associated with the sciences of plant improvement, production, protection, and utilization. The program will provide an understanding of the biological principles that determine the heredity, growth, and responses of plants and plant pathogens to cultural and environmental factors.

Faculty Core

| Course Number | Course Name | Credit Hours |
|---------------|--|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |

| | | |
|---|--|----------------|
| BIOL 1030 | Biology 2: Biological Diversity , Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| One of the following two courses: | | |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

- 1) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

The four year program leading to the B.Sc. (Agriculture) is a professional program which prepares graduates for careers in the public and private sectors related to the production and distribution of agricultural commodities. Graduates will also be prepared to enter directly into a program of graduate studies. In addition to the faculty core courses, all students are required to take the following B.Sc. (Agriculture) degree core requirements and the respective program core courses.

B.Sc. (Agriculture) Degree Core

| Course Number | Course Name | Credit Hours |
|---------------------------|----------------------------|--------------|
| AGEC 2370 (BIOL 2300) | Principles of Ecology | 3 |
| CHEM 2770 (MBIO 2770) | Elements of Biochemistry 1 | 3 |
| PLNT 2520 (BIOL 2500) | Genetics | 3 |
| Total Credit Hours | | 9 |

Within the B.Sc. (Agriculture) students will elect one of three programs of study or specialities -- Agronomy, Animal Systems or Plant Biotechnology. Students will normally begin the program of study of their choice in second year.

Plant Biotechnology Core (Required)

| Course Number | Course Name | Credit Hours |
|---------------|----------------------|--------------|
| BIOL 2242 | The Flowering Plants | 3 |

| | | |
|---------------------------|---|-----------|
| BIOL 2260 | Biology of Fungi and Lichens | 3 |
| BIOL 2520 | Cell Biology | 3 |
| CHEM 2780/MBIO 2780 | Elements of Biochemistry 2 | 3 |
| MBIO 1010 | Microbiology 1 | 3 |
| PLNT 2530 | Plant Biotechnology | 3 |
| PLNT 3400/BIOL 3400 | Plant Physiology | 3 |
| PLNT 4600 | Issues in Agricultural Biotechnology | 3 |
| Total Credit Hours | | 24 |

Restricted Electives

| Course Number | Course Name | Credit Hours |
|---|--|--------------|
| Group 1 – Two courses from the following: | | 6 |
| ANSC 2500 | Animal Production | |
| ANSC 4410/PLNT 4410 | Grassland Agriculture: Plant, Animal, and Environment | |
| ENTM 3170 | Crop Protection Entomology | |
| PLNT 2500 | Crop Production | |
| PLNT 2510 | Fundamentals of Horticulture | |
| PLNT 3540 | Weed Science | |
| Group 2 – Five Courses from the following: | | 15 |
| PLNT 3520 | Principles of Plant Improvement | |
| PLNT 3570 | Fundamentals of Plant Pathology | |
| PLNT 4310 | Introductory Plant Genomics | |
| PLNT 4330 | Intermediate Plant Genetics | |
| PLNT 4550 | Developmental Plant Biology | |
| PLNT 4570 | Research Methods in Plant Pathology | |
| PLNT 4580 | Molecular Plant-Microbe Interactions | |
| PLNT 4590 | Physiology of Crop Plants | |
| PLNT 4610 | Bioinformatics | |
| Total Credit Hours | | 21 |
| Free Electives | | 27 CH |

Suggested Progression of Plant Biotechnology Program:

Year 1

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| AGRI 1500 | Natural Resources and Primary Agriculture Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 OR CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry OR University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| STAT 1000 OR Elective | Basis Statistical Analysis 1 OR Elective | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math Course from the following: | | 3 |

| | | |
|---------------------------|---|-----------|
| MATH 1200 | Elements of Discrete Mathematics | |
| MATH 1210 | Techniques of Classical and Linear Algebra | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices for Management and Social Sciences | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

*MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Year 2

| Course Number | Course Name | Credit Hours |
|--|------------------------------|--------------|
| BIOL 2242 | The Flowering Plants | 3 |
| BIOL 2262 | Biology of Fungi and Lichens | 3 |
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780/MBIO 2780 | Elements of Biochemistry 2 | 3 |
| BIOL 2520 | Cell Biology | 3 |
| PLNT 2520/BIOL 2500 | Genetics | 3 |
| PLNT 2530 | Plant Biotechnology | 3 |
| AGRI 2030 | Technical Communications | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 6 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGEC 2370/BIOL 2300 | Principles of Ecology | 3 |
| MBIO 1010 | Microbiology 1 | 3 |
| PLNT 3400/BIOL 3400 | Plant Physiology | 3 |
| STAT 1000 OR Elective if taken in Year One | Basis Statistical Analysis 1 OR Elective if taken in Year 1 | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 15 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|--------------------------------------|--------------|
| PLNT 4600 | Issues in Agricultural Biotechnology | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 27 |
| Total Credit Hours | | 30 |

4.5 Bachelor of Science (Agribusiness)

Agribusiness students specialize in the people component of agriculture. This begins with the consumer, ends with the producer and involves all those along the food chain. Food production and distribution is undertaken in a business environment and agribusiness is the study of decision-making within this setting. Graduates gain insight into the agribusiness environment through mastering concepts in economics, finance, marketing and management. In addition to the faculty core courses, all students are required to take the B.Sc. (Agribusiness) degree core requirements. Students in Agribusiness are not required to take University 1 Chemistry as part of the Faculty Core requirement.

Through the choice of restricted electives, students will specialize in agricultural economics, agribusiness management or international agribusiness. The respective agricultural economics, agribusiness management or international agribusiness options involve selecting restricted electives from courses offered by either the [Department of Economics](#), or the [Faculty of Management](#), or the [Faculty of Arts](#) through their cross-disciplinary programs.

Students selecting an option in agricultural economics can declare a minor in economics.

The international agribusiness option involves taking a minor in one of the cross disciplinary programs in the Faculty of Arts. International agribusiness requires knowledge of languages, cultures, and international political history, in addition to the other business skills required by the B.Sc. (Agribusiness) degree.

Faculty Core

| Course Number | Course Name | Credit Hours |
|---|--|----------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

NOTES:

1) Students planning to enter the B.Sc. (Agribusiness) degree program are recommended to take BIOL 1020 and BIOL 1030 but may substitute BIOL 1000 and BIOL 1010.

2) Six credit hours of Math courses, consisting of 3 credit hours of MATH 1300 Vector Geometry and Linear Algebra or MATH 1310 Matrices for Management and Social Sciences and 3 credit hours of MATH 1500 Introduction to Calculus or MATH 1520 Introduction to Calculus for Management and Social Sciences are required for the B.Sc. (Agribusiness) and B.Sc. (Food Sciences) programs. MATH 1200 or MATH 1210 will be used as free electives in these two programs.

3) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Degree Core (Required)

| Course Number | Course Name | Credit Hours |
|---|---|--------------|
| ABIZ 2510 | Introduction to Agriculture and Food Marketing | 3 |
| ABIZ 2520 | Introduction to Management Science | 3 |
| ABIZ 3080 | Introduction to Econometrics | 3 |
| ABIZ 3510 | Economics of Food Policy | 3 |
| ABIZ 4500 | Agribusiness Strategies Seminar | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| ECON 2010 | Microeconomic Theory 1 | 3 |
| ECON 2020 | Macroeconomic Theory 1 | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| One Math from the following*: | | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices from Management and Social Sciences* | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| *Agribusiness students require one of MATH 1300 or MATH 1310 and one of MATH 1500 or MATH 1520 | | |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| Total Credit Hours | | 33 |

* MATH 1310 is no longer offered at the University of Manitoba however students who have taken it or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Restricted Electives

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| Group 1 – Three courses from the following: | | 9 |
| ABIZ 2390 | Introduction to Environmental Economics | |
| AGEC 2370/ BIOL 2300 | Principles of Ecology | |
| ANSC 2500 | Animal Production | |
| PLNT 2500 | Crop Production | |
| Group 2 – Two courses from the following: | | 6 |
| ABIZ 3120 | Commodity Futures Markets | |
| ABIZ 3530 | Farm Management | |
| ABIZ 3540 | Financial Risk Management | |
| ABIZ 4260 | Price Analysis | |
| Total Credit Hours | | 15 |

Students must fulfill one of the following options:

| Course Number | Course Name | Credit Hours |
|-----------------------------------|--|-----------------|
| Agricultural Economics Option | At least nine credit hours from the Department of Economics, with three credit hours at the 3000 level. | 9 |
| Agribusiness Management Option | At least nine credit hours from the Faculty of Management | 9 |
| International Agribusiness Option | Minor in Asian Studies or Central and East European Studies or Latin American Studies as defined in the Faculty of Arts Chapter of the Undergraduate Calendar under cross-disciplinary programs. | 18 |
| Total Credit Hours | | 9 - 18 |
| Free Electives | | 21-30 CH |

Students are encouraged to take free electives from the following ten courses:

| | | |
|---------------------------|---|----------------|
| ABIZ 1010 | Economics of World Food Issues and Policies | |
| ABIZ 2210 | Transportation Principles | |
| ABIZ 3120 | Commodity Futures Markets | |
| ABIZ 3530 | Farm Management | |
| ABIZ 3540 | Financial Risk Management | |
| ABIZ 3550 | Environmental Policy | |
| ABIZ 3560 | Agribusiness Portfolio Management | |
| ABIZ 4120 | Intermediate Economics | |
| ABIZ 4260 | Price Analysis | |
| Total Credit Hours | | 21 - 30 |

Suggested Progression of Agribusiness Program:

Year 1

| Course Number | Course Name | Credit Hours |
|---|--|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One set of two Biology courses as below: | | 6 |
| BIOL 1000 and BIOL 1010 | Biology: Foundations of Life and Biology: Biological Diversity and Interactions | |
| OR | | |
| BIOL 1020 and BIOL 1030 | Biology 1: Principles and Themes and Biology 2: Biological Diversity, Function, and Interactions | |
| One Math course from the following: | | 3 |
| MATH 1300 | Vector Geometry and Linear Algebra | |

| | | |
|--|---|-----------|
| MATH 1310 | Matrices for Management and Social Sciences | |
| One Math course from the following: | | 3 |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| STAT 1000 or Free Elective | Basic Statistical Analysis 1 or Free Elective | 3 |
| Total Credit Hours | | 30 |

Year 2

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| ABIZ 2510 | Introduction to Agricultural and Food Marketing | 3 |
| ABIZ 2520 | Introduction to Management Science | 3 |
| AGRI 2030 | Technical Communications | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| ECON 2010 | Microeconomic Theory 1 (previously ECON 2450) | 3 |
| ECON 2020 | Macroeconomic Theory 2 (previously ECON 2470) | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 6 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|--|------------------------------|--------------|
| ABIZ 3080 | Introduction to Econometrics | 3 |
| ABIZ 3510 | Economics of Food Policy | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 21 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|---------------------------------|--------------|
| ABIZ 4500 | Agribusiness Strategies Seminar | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 27 |
| Total Credit Hours | | 30 |

4.6 Bachelor of Science (Agroecology)

The Agroecology program provides students with an understanding of the natural processes in the agroecosystem and the impact of agricultural practices on these processes. The program emphasizes three areas: ecological sciences, agricultural production, and the social and economic implications of environmental management. Students will develop an understanding of how to manage natural and agricultural resources in a manner that enhances economic production while maintaining the integrity of natural and agricultural environments. An undergraduate research project is completed during third and fourth years as part of AGECE 3510 and AGECE 4550. Graduates are prepared for careers at the technical and management levels in government and non-government agencies involved in planning and management of natural and agricultural

resources. By appropriate choice of free elective courses, students can prepare for graduate studies.

In addition to the courses prescribed in the faculty core for all students in the Faculty of Agricultural and Food Sciences, the following courses are prescribed for students in the program leading to the B.Sc. Agroecology.

Faculty Core

| | | |
|---|--|----------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| One of the following two courses: | | |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

- 1) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Degree Core (Required)

| Course Number | Course Name | Credit Hours |
|---------------|-------------|--------------|
|---------------|-------------|--------------|

| | | |
|---------------------------|---|-----------|
| ABIZ 2390/ECON 2390 | Introduction to Environmental Economics | 3 |
| AGEC 2370/BIOL 2300 | Principles of Ecology | 3 |
| AGEC 3510 | Agroecology | 3 |
| AGEC 4550 | Project in Agroecology | 6 |
| ANSC 2500 | Animal Production | 3 |
| BIOL 3312 | Community Ecology | 3 |
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| PLNT 2500 | Crop Production | 3 |
| PLNT 2520 | Genetics | 3 |
| SOIL 3600 | Soil and Landscapes in Our Environment | 3 |
| Total Credit Hours | | 33 |

Restricted Electives

| Course Number | Course Name | Credit Hours |
|---|--|--------------|
| Group 1 – Agricultural Science | | 9 |
| Three courses from the following: | | |
| Any 2000, 3000, or 4000 level course from - | | |
| ANSC | Department of Animal Science | |
| ENTM | Department of Entomology | |
| PLNT | Department of Plant Sciences | |
| Group 2 – Land Science | | 6 |
| Two courses from the following: | | |
| Any 3000 or 4000 level course from - | | |
| SOIL | Department of Soil Science | |
| Or | | |
| GEOG 2250 | Introduction to Geographic Information Systems | |
| Group 3 – Policy and Economics | | 3 |
| One course from the following: | | |
| Any 3000 or 4000 level course from - | | |
| ABIZ | Department of Agribusiness | |
| Total Credit Hours | | 18 |
| Group 4 – Applied Agriculture* | | 3 |

| One course from the following: | | |
|--|---|-----------|
| ANSC 4410 | Grassland Agriculture: Plant, Animal, and Environment | |
| ENTM 4520 | Physiology Ecology of Insects | |
| PLNT 3540 | Weed Science | |
| PLNT 3560 | Organic Crop Production on the Prairies | |
| SOIL 4400 | Soil Ecology | |
| *Note that courses from this group are in addition to the Group 1 requirement | | |
| Total Credit Hours | | 21 |
| Free Electives | | 27 |

Suggested Progression of Agroecology Program:**Year 1**

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 or CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry or University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math course from the following: | | |
| MATH 1200 | Elements of Discrete Mathematics | |
| MATH 1210 | Techniques of Classical Linear Algebra | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices for Management and Social Sciences | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

*MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

Year 2

| Course Number | Course Name | Credit Hours |
|--|------------------------------|--------------|
| ABIZ 1000 | Agribusiness Management | 3 |
| AGRI 2030 | Technical Communications | 3 |
| AGEC 2370/BIOL 2300 | Principles of Ecology | 3 |
| ANSC 2500 | Animal Production | 3 |
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| PLNT 2500 | Crop Production | 3 |
| PLNT 2520 | Genetics | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 6 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| ABIZ 2390/ECON 2390 | Introduction to Environmental Economics | 3 |
| AGEC 3510 | Agroecology | 3 |
| BIOL 3312 | Community Ecology | 3 |
| SOIL 3600 | Soils and Landscapes in Our Environment | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 18 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|------------------------|--------------|
| AGEC 4550 | Project in Agroecology | 6 |
| Restricted/Free Electives/Philosophy/Co-op | | 24 |
| Total Credit Hours | | 30 |

Notes

* ENTM 2050 Introductory Entomology is a prerequisite for most courses in entomology. Students contemplating additional entomology courses as free electives are advised to take ENTM 2050 in second year.

4.7 Bachelor of Science (Food Science)

The B.Sc. degree program in Food Science provides the academic foundation of knowledge and skills for the wide range of activities in food science and technology. The degree program is structured in course offerings and content to enhance the competence of graduating students by providing greater emphasis in communications, critical thinking, computer literacy and statistics which are basic requirements of a modern professional environment. The B.Sc. degree program in Food Science is accredited by the Institute of Food Technologists (IFT).

Faculty Core

| | | |
|-----------|---|---|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |

| | | |
|---|--|----------------|
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| AGRI 2030 | Technical Communications | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| One of the following two courses: | | |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| MATH 1200 | Elements of Discrete Mathematics (See Notes 1) OR | |
| MATH 1210 | Techniques of Classical and Linear Algebra OR | |
| MATH 1300 | Vector Geometry and Linear Algebra OR | |
| MATH 1310 | Matrices for Management and Social Sciences (See Notes 1) OR | |
| MATH 1500 | Introduction to Calculus (See Note 5) OR | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| Three credit hours from the following: | | |
| PHIL 1290 | Critical Thinking (3) | |
| PHIL 2740 | Ethics and Biomedicine (3) | |
| PHIL 2750 | Ethics and Environment (3) | |
| PHIL 2830 | Business Ethics (3) | 3 |
| Total Credit Hours | | 33 - 39 |

Notes

1) ABIZ 1000 is not required for the B.Sc. Food Science (Food Science option). It is required in the B.Sc. Food Science (Business option).

2) Both CHEM 1310 and CHEM 1320 are required for the B.Sc. (Food Science) Science Option Program.

3) Six credit hours of Math courses, consisting of 3 credit hours of MATH 1300 Vector Geometry and Linear Algebra or MATH 1310 Matrices for Management and Social Sciences and 3 credit hours of MATH 1500 Introduction to Calculus or MATH 1520 Introduction to Calculus for Management and Social Sciences are required for the B.Sc. (Agribusiness) and B.Sc. (Food Sciences) programs. MATH 1200 or MATH 1210 will be used as free electives in these two programs.

4) MATH 1200 and MATH 1310 are no longer offered at the University of Manitoba however students who have taken one of these courses or have had it transfer to the University of Manitoba from another university can still use it towards their Math requirement for the Faculty of Agricultural and Food Sciences.

The B.Sc. (Food Science) degree program offers two options: a Science Option and a Business Option. Students will elect one of two options of study. Both Food Science options require students to complete the Faculty and Degree Core courses.

Degree Core

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| FOOD 2500 | Food Chemistry | 3 |
| FOOD 3010 | Food Process 1 | 3 |
| FOOD 4120 | Food Science Seminar | 3 |
| FOOD 4150 | Food Microbiology 1 | 3 |
| FOOD 4160 | Food Analysis 1 | 3 |
| FOOD 4200 | Quality Control in Foods | 3 |
| FOOD 4510 | Food Product Development | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| One Math course from the following: | | 3 |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introduction to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 33 |

Food Science – Science Option

The principal areas covered are food processing, chemistry, analysis and safety. The Food Science program specifies ten required and a minimum of three restricted elective courses in Food Science. As well, students must select a minimum of three credit hours from a prescribed list of courses in critical thinking and ethics. Twenty-one credit hours of free electives are available and can be selected in Food Science. This will ensure a strong academic base in Food Science and accommodate a satisfactory level of Food Science specialization.

In addition to the courses required for the faculty core and the Food Science Degree Core the following courses are prescribed for the program leading to a B.Sc. in Food Science – Science Option.

Science Option Core (Required)

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| BIOE 3530 | Engineering Fundamentals | 3 |
| CHEM 1310* | University 1 Chemistry: Introduction to Physical Chemistry | 3 |
| CHEM 1320* | University 1 Chemistry: Introduction to Organic Chemistry | 3 |
| *Both CHEM 1310 and CHEM 1320 are required for the Food Science – Science Option program. One of these courses will be credited as part of the Faculty Core. | | |
| FOOD 3210 | Food Engineering Fundamentals | 3 |
| FOOD 4010 | Food Process 2 | 3 |
| FOOD 4250 | Food Analysis 2 | 3 |
| MBIO 1010 | Microbiology 1 | 3 |

| | | |
|---------------------------|---------------------------|-----------|
| MKT 2210 | Fundamentals of Marketing | 3 |
| Total Credit Hours | | 21 |

Restricted Electives

| Course Number | Course Name | Credit Hours |
|---------------------------------------|--|--------------|
| Group 1 – Food Safety | | 3 |
| One course from the following: | | |
| AGRI 2190 and ANSC 2530 | Toxicology Principles and Nutritional Toxicology | |
| FOOD 1000 | Food Safety, Today and Tomorrow | |
| FOOD 4310 | Introduction to HACCP | |
| FOOD 4500 | Food Safety and Regulations | |
| Group 2 – General | | 6 |
| Two courses from the following: | | |
| FOOD 3160 | Frozen Dairy Products | |
| FOOD 3170 | Cheese and Fermented Milk Products | |
| FOOD 3220 | Grains for Food and Beverage | |
| FOOD 3500 | Processing of Animal Food Products | |
| FOOD 4230 | Food Research | |
| FOOD 4260 | Water Management in Food Processing | |
| FOOD 4540 | Functional Foods and Nutraceuticals | |
| HNSC 4270 | Sensory Evaluation | |
| Total Credit Hours | | 9 |
| Free Electives | | 21 |

Suggested Progression of Food Science (Science Option) Program:**Year 1**

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1310 or CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry or University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math course from the following: | | 3 |
| MATH 1300 | Vector Geometry and Linear Algebra | |

| | | |
|--|---|-----------|
| MATH 1310 | Matrices for Management and Social Sciences | |
| One Math course form the following: | | 3 |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

Year 2

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| AGRI 2030 | Technical Communications | 3 |
| CHEM 1310 or CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry or University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| FOOD 2500 | Food Chemistry | 3 |
| MBIO 1010 | Microbiology 1 | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 9 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| BIOE 3530 | Engineering Fundamentals | 3 |
| FOOD 3010 | Food Process 1 | 3 |
| FOOD 3210 | Food Engineering Fundamentals | 3 |
| FOOD 4150 | Food Microbiology 1 | 3 |
| FOOD 4160 | Food Analysis 1 | 3 |
| FOOD 4250 | Food Analysis 2 | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| MKT 2210 | Fundamentals of Marketing | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 6 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|--------------------------|--------------|
| FOOD 4010 | Food Process 2 | 3 |
| FOOD 4120 | Food Science Seminar | 3 |
| FOOD 4200 | Quality Control in Foods | 3 |
| FOOD 4510 | Food Product Development | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 18 |
| Total Credit Hours | | 30 |

**While both CHEM 1310 and CHEM 1320 are required for the Food Science-Science Option program, normally only one is taken in second year.

Food Science – Business Option

The B.Sc. degree Program in Food Science offers a Business option which now allows students to specialize in the program. The Business option specifies eight required courses and a minimum of one course from selected groups of Food Science courses plus one course from a selected group of philosophy courses. Additional required courses from Agribusiness and The Faculty of Management provide a level of specialization in economics, finance, marketing and management. There are also twenty-one credit hours (seven courses) available for free electives.

In addition to the courses required for the faculty core and the Food Science Degree Core the following courses are prescribed for the program leading to a B.Sc. in Food Science – Business Option.

Business Option Core (Required)

| Course Number | Course Name | Credit Hours |
|---------------------------|-----------------------------------|--------------|
| ABIZ 3510 | Economics of Food Policy | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| ECON 2010 | Microeconomic Theory 1 | 3 |
| ECON 2020 | Macroeconomic Theory 1 | 3 |
| FOOD 4500 | Food Safety and Regulations | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| Total Credit Hours | | 18 |

Restricted Electives

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| Group 1 - Marketing | | 6 |
| Two courses from the following: | | |
| ABIZ 2510 | Introduction to Agricultural and Food Marketing | |
| ABIZ 3520 | Food Distribution and International Marketing | |
| MKT 2210 | Fundamentals of Marketing | |
| Group 2 - General | | 3 |
| One course from the following: | | |
| AGRI 2190 and ANSC 2530 | Toxicology Principles and Nutritional Toxicology | |
| FOOD 1000 | Food Safety, Today and Tomorrow | |
| FOOD 3160 | Frozen Dairy Products | |
| FOOD 3170 | Cheese and Fermented Milk Products | |
| FOOD 3220 | Grains for Food and Beverage | |
| FOOD 3500 | Processing of Animal Food Products | |
| FOOD 4250 | Food Analysis 2 | |
| FOOD 4260 | Water Management in Food Processing | |
| FOOD 4310 | Introduction to HACCP | |
| FOOD 4540 | Functional Foods and Nutraceuticals | |
| Total Credit Hours | | 9 |
| Free Electives | | 21 |

Suggested Progression of Food Science (Business Option) Program:**Year 1**

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| AGRI 1500 | Natural Resources and Primary Agricultural Production | 3 |
| AGRI 1510 | Production, Distribution, and Utilization of Agricultural Products | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1030 | Biology 2: Biological Diversity, Function, and Interactions | 3 |
| CHEM 1300 | University 1 Chemistry: Structure and Modelling in Chemistry | 3 |
| CHEM 1310 or CHEM 1320 | University 1 Chemistry: An Introduction to Physical Chemistry or University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| One Math course from the following: | | |
| MATH 1300 | Vector Geometry and Linear Algebra | |
| MATH 1310 | Matrices for Management and Social Sciences | |
| One Math course from the following: | | |
| MATH 1500 | Introduction to Calculus | |
| MATH 1520 | Introductory to Calculus for Management and Social Sciences | |
| Total Credit Hours | | 30 |

Year 2

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| AGRI 2030 | Technical Communications | 3 |
| CHEM 2770/MBIO 2770 | Elements of Biochemistry 1 | 3 |
| FOOD 2500 | Food Chemistry | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 6 |
| Total Credit Hours | | 30 |

Year 3

| Course Number | Course Name | Credit Hours |
|---------------|------------------------|--------------|
| ECON 2010 | Microeconomic Theory 1 | 3 |

| | | |
|--|--|-----------|
| ECON 2020 | Macroeconomic Theory 1 | 3 |
| FOOD 3010 | Food Process 1 | 3 |
| FOOD 4150 | Food Microbiology 1 | 3 |
| FOOD 4160 | Food Analysis 1 | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 12 |
| Total Credit Hours | | 30 |

Year 4

| Course Number | Course Name | Credit Hours |
|--|-----------------------------|--------------|
| ABIZ 3510 | Economics of Food Policy | 3 |
| FOOD 4120 | Food Science Seminar | 3 |
| FOOD 4200 | Quality Control in Foods | 3 |
| FOOD 4500 | Food Safety and Regulations | 3 |
| FOOD 4510 | Food Product Development | 3 |
| Restricted/Free Electives/Philosophy/Co-op | | 15 |
| Total Credit Hours | | 30 |

4.8 Human Nutritional Sciences Programs

Head: Dr. J. House

Chair: Dr. J. Slater

Campus Address/General Office: 160 Agriculture Building

Telephone: (204) 474 7045

Email Address: taylor.friesen@umanitoba.ca

Human Nutritional Sciences Programs

Students majoring in Human Nutritional Sciences will be admitted to the 4-year degree program, the second-degree program, or the Human Nutritional Sciences/Culinary Arts program. Students in the 4-year degree program must choose from the Nutrition Option, the Foods Option, or the Food Industry Option.

The educational requirements to qualify for a dietetic internship and membership with the College of Dietitians of Manitoba (CDM) or dietetic colleges in other Canadian provinces may be met within the Nutrition Option with the recommended selection of courses. Students can apply for a dietetic internship during the program (see application requirements and procedures for Pre-Selection by the Manitoba Partnership Program), or through Dietitian's of Canada Program Match system in the final year of their degree or after completion of their degree. Internships are awarded competitively by external institutions. Review the section on academic requirements for eligibility to apply for a dietetic internship for students admitted in September, 2007 and later.

Those who plan to enter Human Nutritional Sciences are advised that Applied Math or Pre-Calculus Mathematics 40S and Chemistry 40S are prerequisites to CHEM 1300 University 1: Structure and Modeling in Chemistry. Before entering continuing years in the Faculty of Agricultural and Food Sciences, the overall program must be planned with academic advising advice.

All returning students in the Faculty of Agricultural and Food Sciences must submit a program plan for the succeeding year before the start of registration.

4.8.1 Program Requirements

The following are the guidelines for the program requirements for HNS students. The courses outlined for each program in the sections, which follow, meets these basic requirements.

All students complete a core of 9 **Credit Hours** consisting of:

| Course Number | Course Name |
|---------------|---|
| HEAL 2600 | Integration of Health Determinants of Individuals |
| HMEC 3000 | Introduction to Social Epidemiology |
| HNSC 2000 | Research Methods and Presentation |

Students admitted prior to September 2019 are urged to seek academic advising assistance for advice regarding completion of core course requirements.

Electives

Courses within each program fall into one of two categories:

- Department electives must be chosen from within the program department (HNSC designation).
- Free electives may be chosen from within or outside the Faculty of Agricultural and Food Sciences

4.8.2 Bachelor of Science (Human Nutritional Sciences)

If prerequisites permit, students must register for at least one HNSC course (3 **Credit Hours**) per year in order to stay in the Human Nutritional Sciences program.

Students Admitted in September 2019 or Later

| Course Number | Course Name | Credit Hours |
|---|--|--------------|
| Courses to be taken by all Human Nutritional Sciences students | | |
| BIOL 1410 or | Anatomy of the Human Body | 3 |
| BIOL 1020 and BIOL 1030 | Biology 1 and 2 (if BIOL 1 and 2 are taken, the additional 3 credit hours are considered to be free electives) | 3-6 |
| BIOL 1412 | Physiology of the Human Body (See Note 4) | 3 |
| CHEM 1300 | University 1: Structure and Modeling in Chemistry | 3 |
| CHEM 1320 | University 1: Introduction to Organic Chemistry (See Note 1) | 3 |
| CHEM 2770 | Elements of Biochemistry 1 (See Note 2) | 3 |
| CHEM 2780 | Elements of Biochemistry 2 (See Note 3) | 3 |
| FOOD 4150 | Food Microbiology | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| HEAL 3000 | Introduction to Social Epidemiology | 3 |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| HNSC 2000 | Research Methods and Presentation | 3 |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional and Nutritional Properties of Foods | 3 |
| HNSC 2160 | Food Preparation and Preservation | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |

| | | |
|--------------------------|---|---|
| HNSC 4160 | Seminar in Foods and Nutrition | 3 |
| HNSC 4290* | Food, Nutrition and Health Policies | 3 |
| PSYC 1200 or SOC 1200 | Introduction to Psychology or Introduction to Sociology or combination of the 2 areas | 6 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |

All students must select one of the following options to complete the degree program

Nutrition Option

| | | |
|---------------------------|--|----|
| HNSC 3220 | Food and Nutrition Literacy Education | 3 |
| HNSC 3300 | Vitamins and Minerals in Human Health | 3 |
| HNSC 3310 | Macronutrients and Human Health | 3 |
| HNSC 3320 | Nutrition Education and Dietary Change | 3 |
| HNSC 4320 or HNSC 4300 | Nutritional Management of Disease States or Community Nutrition Intervention | 3 |
| | Department Electives | 15 |
| | Free Electives | 24 |

Foods Option

| | | |
|-----------|---------------------------------|----|
| HNSC 3310 | Macronutrients and Human Health | 3 |
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 3350 | Culture and Food Patterns | 3 |
| HNSC 4270 | Sensory Evaluation of Food | 3 |
| HNSC 4280 | Food Product Development | 3 |
| MKT 2210 | Fundamentals of Marketing | 3 |
| | Program Electives (See Note 5) | 9 |
| | Free Electives | 24 |

Food Industry Option

| | | |
|---------------------------|--|----|
| FOOD 4310 | Introduction to HACCP | 3 |
| GMGT 1010 | Business and Society | 3 |
| HNSC 3260 | Food Quality Behaviour | 3 |
| HNSC 3300 or HNSC 3310 | Vitamins and Minerals in Human Health or Macronutrients and Human Health | 3 |
| HNSC 4280 | Food Product Development | 3 |
| HNSC 4364 | Foods Industry Option Practicum | 6 |
| MKT 2210 | Fundamentals of Marketing | 3 |
| | | 15 |

*NOTE:

HNSC 4290 is not a requirement for students in the Food Industry Option

Electives (see Advising information for suggested electives)

Students in the Food Industry Option must complete one of the following concentrations (15 **Credit Hours**). Select 15 **Credit Hours** of course work from one of the lists that follow.

| | | |
|---|---|-----------|
| Quality Assurance Concentration | | 15 |
| AGRI 2190 | Toxicology Principles | 1.5 |
| AGRI 2530 | Nutritional Toxicology | 1.5 |
| FOOD 4160 | Food Analysis 1 | 3 |
| FOOD 4250 | Food Analysis 2 | 3 |
| FOOD 4500 | Food Safety and Regulations | 3 |
| HNSC 4270 | Sensory Evaluation of Food | 3 |
| STAT 3000 | Applied Linear Statistical Models | 3 |
| STAT 3170 | Statistical Quality Control | 3 |
| Food Product Development Concentration | | 15 |
| FOOD 4160 | Food Analysis 1 | 3 |
| FOOD 4250 | Food Analysis 2 | 3 |
| FOOD 4500 | Food Safety and Regulations | 3 |
| One of: FOOD 3160, FOOD 3170, or FOOD 3200 | Frozen Dairy Product, Cheese and Milk Products, or Baking Science | 3 |
| HNSC 4270 | Sensory Evaluation of Food | 3 |
| HNSC 4290 | Food, Nutrition and Health Policies | 3 |

| | | |
|---|---|-----------|
| HNSC 4540 | Functional Foods and Nutraceuticals | 3 |
| STAT 3000 | Applied Linear Statistical Models | 3 |
| Food Industry Management Concentration | | 15 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| GMGT 2060 | Management and Organization Theory | 3 |
| GMGT 3010 | Management Decision-Making | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| MKT 3220 | Marketing Research | 3 |
| HNSC 3342 | Management for Food and Nutrition Professionals | 3 |
| GMGT 3xxx | 3000 level | 3 |

NOTES:

- Under required courses, students can take either CHEM 1320 (University 1: Introduction to Organic Chemistry) or CHEM 1310 (University 1: Introduction to Physical Chemistry). CHEM 1320 may not be held with CHEM 2210.
- Under required courses, students can take either CHEM 2770 / MBIO 2770 (Elements of Biochemistry 1) or CHEM 2360 / MBIO 2360 (Biochemistry 1: Bio-molecules and an Introduction to Metabolic Energy).
- Under required courses, students can take either CHEM 2780 / MBIO 2780 (Elements of Biochemistry 2) or CHEM 2370 / MBIO 2370 (Biochemistry 2: Catabolism, Synthesis, and Information Pathways).
- Under required courses, students can take either BIOL 1412 (Physiology of the Human Body) or BIOL 2410 (Human Physiology 1) and BIOL 2420 (Human Physiology 2). Note that students selecting BIOL 1020 and BIOL 1030 are not required to complete BIOL 1410, and will decrease electives by 3 credit hours. The selection of BIOL 1020 and BIOL 1030 will have more options with regard to taking higher level Biology courses as electives.
- Nine credit hours of courses from either the Asper School of Business and/or from 3rd and 4th Food Science (Food) courses.

| Suggested Progression of Program: Nutrition Option | | |
|---|---|---------------------|
| Year 1 | | |
| Course No. | Course Title | Credit Hours |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health & Changing Lifestyles | 3 |
| CHEM 1300 | Structure & Modeling in Chemistry | 3 |
| CHEM 1320 or CHEM 1310 | Introduction to Organic Chemistry Introduction to Physical Chemistry | 3 |
| BIOL 1410 or BIOL 1020 and BIOL 1030 | Anatomy of the Human Body Biology 1 Biology 2 | 3-6 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| PSYC 1200 or SOC 1200 | Introduction to Psychology Introduction to Sociology | 6 |
| | Free Elective(s) | 3-6 |
| Total Credit Hours | | 30 |
| Year 2 | | |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional, & Nutritional Properties of Food | 3 |
| HNSC 2160 | Food Preparation & Preservation | 3 |
| CHEM 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780 | Elements of Biochemistry 2 | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| | Free Elective | 3 |
| Total Credit Hours | | 30 |
| Year 3 | | |

| HNSC 2000 | Research Methods and Presentation | 3 |
|---|--|---------------------|
| HNSC 3300 | Vitamins and Minerals in Human Health | 3 |
| HNSC 3310 | Macronutrients & Human Health | 3 |
| HNSC 3320 | Nutrition Education & Dietary Change | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HEAL 3000 | Introduction to Social Epidemiology | 3 |
| FOOD 4150 | Food Microbiology | 3 |
| HNSC | HNSC electives | 6 |
| | Free Elective | 3 |
| Total Credit Hours | | 30 |
| Year 4 | | |
| HNSC 4160 | Seminar in Foods & Nutrition | 3 |
| HNSC 4290 | Food, Nutrition, & Health Policies | 3 |
| HNSC 4300 or HNSC 4320 | Community Nutrition Intervention Nutrition Management of Disease States | 3 |
| HNSC | HNSC electives | 9 |
| | Free electives | 12 |
| Total Credit Hours | | 30 |
| Suggested Progression of Program: Foods Option | | |
| Year 1 | | |
| Course No. | Course Title | Credit Hours |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health & Changing Lifestyles | 3 |
| CHEM 1300 | Structure & Modeling in Chemistry | 3 |
| CHEM 1320 or CHEM 1310 | Introduction to Organic Chemistry Introduction to Physical Chemistry | 3 |
| BIOL 1410 or BIOL 1020 and BIOL 1030 | Anatomy of the Human Body Biology 1 Biology 2 | 3-6 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| PSYC 1200 or SOC 1200 | Introduction to Psychology Introduction to Sociology | 6 |
| | Free Elective(s) | 3-6 |
| Total Credit Hours | | 30 |
| Year 2 | | |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional, & Nutritional Properties of Food | 3 |
| HNSC 2160 | Food Preparation & Preservation | 3 |
| CHEM 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780 | Elements of Biochemistry 2 | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| MKT 2210 | Fundamentals of Marketing | 3 |
| Total Credit Hours | | 30 |
| Year 3 | | |
| HNSC 2000 | Research Methods and Presentation | 3 |
| HNSC 3300 or HNSC 3310 | Vitamins and Minerals in Human Health Macronutrients & Human Health | 3 |
| HNSC 3350 | Culture and Food Patterns | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HEAL 3000 | Introduction to Social Epidemiology | 3 |
| FOOD 4150 | Food Microbiology | 3 |
| | Program Electives | 6 |
| | Free Elective | 6 |
| Total Credit Hours | | 30 |
| Year 4 | | |

| | | |
|---|---|---------------------|
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 4160 | Seminar in Foods & Nutrition | 3 |
| HNSC 4270 | Sensory Evaluation of Food | 3 |
| HNSC 4280 | Food Product Development | 3 |
| HNSC 4290 | Food, Nutrition, & Health Policies | 3 |
| | Program Elective | 3 |
| | Free electives | 12 |
| Total Credit Hours | | 30 |
| Suggested Progression of Program: Food Industry Option | | |
| Year 1 | | |
| Course No. | Course Title | Credit Hours |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health & Changing Lifestyles | 3 |
| CHEM 1300 | Structure & Modeling in Chemistry | 3 |
| CHEM 1320 or CHEM 1310 | Introduction to Organic Chemistry Introduction to Physical Chemistry | 3 |
| BIOL 1410 or BIOL 1020 and BIOL 1030 | Anatomy of the Human Body Biology 1 Biology 2 | 3-6 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| PSYC 1200 or SOC 1200 | Introduction to Psychology Introduction to Sociology | 6 |
| | Free Elective(s) | 3-6 |
| Total Credit Hours | | 30 |
| Year 2 | | |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional, & Nutritional Properties of Food | 3 |
| HNSC 2160 | Food Preparation & Preservation | 3 |
| CHEM 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780 | Elements of Biochemistry 2 | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| MKT 2210 | Fundamentals of Marketing | 3 |
| GMGT 1010 | Business and Society | 3 |
| Total Credit Hours | | 30 |
| Year 3 | | |
| HNSC 2000 | Research Methods and Presentation | 3 |
| HNSC 3300 or HNSC 3310 | Vitamins and Minerals in Human Health Macronutrients & Human Health | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HEAL 3000 | Introduction to Social Epidemiology | 3 |
| FOOD 4150 | Food Microbiology | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| | Concentration Electives | 6 |
| | Free Electives | 6 |
| Total Credit Hours | | 30 |
| Year 4 | | |
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 4160 | Seminar in Foods & Nutrition | 3 |
| HNSC 4280 | Food Product Development | 3 |
| HNSC 4364 | Food Industry Option Practicum | 6 |
| FOOD 4310 | Introduction to HACCP | 3 |
| | Concentration Electives | 9 |
| | Free elective | 3 |
| Total Credit Hours | | 30 |

4.8.2.1 Dietetics Preparation:

1. Courses required to build into the Human Nutrition Option program:

| Course Number | Course Name | Credit Hours | Placement in Program |
|----------------------|---|---------------------|-----------------------------|
| GMGT 1010 | Business and Society | 3 | Free Elective |
| HNSC 3400 | Nutrition Assessment and Counselling | 3 | Free Elective |
| HNSC 3342 | Management for Food and Nutrition Professionals | 3 | Department Elective |
| HNSC 4140 | Quantity Food Production and Management | 3 | Department Elective |
| HNSC 4xxx | One of HNSC 4300, HNSC 4310, HNSC 4362 or HNSC 4340 | 3 – 6 | Department Elective |
| HNSC 4320 | Nutrition Management of Disease States | 3 | HNSC 4300 or HNSC 4320 |

2. Entry into a dietetic internship is competitive. It is strongly recommended that students seek advice from the Department on all aspects of preparing an application to an internship.

Students admitted to the Department of Human Nutritional Sciences in September 2007 or later, will be eligible to apply to be pre-selected by the Manitoba Partnership Dietetic Education Program (MPP) after completion of 60 – 90 Credit Hours. Details of the pre-selection process and the academic rating selection criteria will be published by the MPP and a link is available on the Faculty of Agricultural and Food Sciences' web site. If students are not pre-selected by the MPP, there are other opportunities to apply in the final year of degree for internships following degree completion.

3. For those intending to apply for a dietetic internship, the second degree's Dietetics Preparation program meets the course requirements in Human Nutritional Sciences, but not all the other supporting course requirements, for example, psychology/sociology, humanities or social sciences, microbiology, research methods, communication arts, basic principles of management. Check with an Academic Advisor to review the supporting course requirements from previous academic work.

| Suggested Progression of Program: Dietetics Preparation | | |
|--|---|---------------------|
| Year 1 | | |
| Course No. | Course Name | Credit Hours |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health & Changing Lifestyles | 3 |
| CHEM 1300 | Structure & Modeling in Chemistry | 3 |
| CHEM 1320 or CHEM 1310 | Introduction to Organic Chemistry Introduction to Physical Chemistry | 3 |
| BIOL 1410 or BIOL 1020 and BIOL 1030 | Anatomy of the Human Body Biology 1 Biology 2 | 3-6 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| PSYC 1200 or | Introduction to Psychology Introduction to Sociology | 6 |

| | | |
|---------------------------|---|-----------|
| SOC 1200 | | |
| | Free Elective(s) | 3-6 |
| Total Credit Hours | | 30 |
| Year 2 | | |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional, & Nutritional Properties of Food | 3 |
| HNSC 2160 | Food Preparation & Preservation | 3 |
| CHEM 2770 | Elements of Biochemistry 1 | 3 |
| CHEM 2780 | Elements of Biochemistry 2 | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| GMGT 1010 | Business and Society | 3 |
| Total Credit Hours | | 30 |
| Year 3 | | |
| HNSC 2000 | Research Methods and Presentation | 3 |
| HNSC 3220 | Food and Nutrition Literacy Education | 3 |
| HNSC 3300 | Vitamins and Minerals in Human Health | 3 |
| HNSC 3310 | Macronutrients & Human Health | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HNSC 3342 | Management for Food and Nutrition Professionals | 3 |
| HEAL 3000 | Introduction to Social Epidemiology | 3 |
| FOOD 4150 | Food Microbiology | 3 |
| | Free Elective | 3 |
| Total Credit Hours | | 30 |
| Year 4 | | |
| HNSC 4140 | Food Production & Management | 3 |
| HNSC 4160 | Seminar in Foods & Nutrition | 3 |
| HNSC 4290 | Food, Nutrition, & Health Policies | 3 |
| HNSC 4320 | Nutrition Management of Disease States | 3 |
| HNSC | One of HNSC 4300, 4310, 4340, or 4362 | 3-6 |
| HNSC | HNSC elective | 3 |
| | Free electives | 9 |
| Total credit hours | | 30 |

4.8.3 Bachelor of Science (Human Nutritional Sciences) - Second Degree Program

Required Courses -- 45 Credit Hours

Refer to information in section 4.2.2.1 about applying for a Dietetic internship. Students must complete 60 Credit Hours while enrolled in the second degree program. If any of the required courses have been

completed in the previous degree, free electives must be chosen to meet the 60 credit hour requirement. Students are not required to satisfy the Written English requirement. Estimated time to completion based on prerequisites is 3 years.

| Course No. | Course Name | Credit Hours |
|----------------------------|--|--------------|
| BIOL 1410 or | Anatomy of the Human Body or | 3-6 |
| BIOL 1020 and BIOL 1030 | Biology 1 and Biology 2 (see note 4) | |
| BIOL 1412 | Physiology of the Human Body | 3 |
| CHEM 1300 | University 1: Structure and Modeling in Chemistry (see note 1) | 3 |
| CHEM 1320 | University 1: Introduction to Organic Chemistry (see note 1) | 3 |
| CHEM 2770 | Elements of Biochemistry 1 (see note 2) | 3 |
| CHEM 2780 | Elements of Biochemistry 2 (see note 3) | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2160 | Principles of Food Preparation and Preservation | 3 |
| HNSC 3220 | Food and Nutrition Literacy Education | 3 |
| HNSC 3300 | Vitamins and Minerals in Human Health | 3 |
| HNSC 3310 | Macronutrients and Human Health | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HNSC 4290 | Food, Nutrition and Health Policies | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |

Free Elective Courses - 6 Credit Hours. If additional courses are required as prerequisites, they will be considered free electives.

Elective Courses – 9 Credit Hours from Human Nutritional Sciences (choose one of options A, B, or C):

| Course No. | Course Name | Credit Hours |
|--|---|--------------|
| A. Dietetics Preparation | | |
| HNSC 3342 | Management for Food and Nutrition Professionals | 3 |
| HNSC 4140 | Quantity Food Production and Management | 3 |
| HNSC 4320 | Nutrition Management of Disease States | 3 |
| B. Human Nutrition | | |
| HNSC 4320 or HNSC 4300 | Nutrition Management of Disease States or Community Nutrition Intervention | 3 |
| | Choose 6 Credit Hours from: | 6 |
| HNSC 4300, HNSC 4310, HNSC 4340, or HNSC 4350 | Community Nutrition Intervention, Nutrition and the Elderly, Maternal and Child Nutrition, or Nutrition in Exercise and Sport | |
| C. Foods | | |
| HNSC 2150 | Composition, Functional and Nutritional Properties of Foods | 3 |
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 4540 | Functional Foods and Nutraceuticals | 3 |

NOTES:

1. Under required courses, students can take either CHEM 1320 (University 1: An Introduction to Organic Chemistry), or CHEM 1310 (University 1: An Introduction to Physical Chemistry). Students can take CHEM 2210 (Introduction to Organic Chemistry 1: Structure and Function) and CHEM 2220 (Introduction to Organic Chemistry 2: Reactivity and Synthesis)

instead of CHEM 1300 and CHEM 1310 or CHEM 1320. For students who do not take CHEM 2210 and CHEM 2220, CHEM 1320 is preferred.

2. Under required courses, students can take either CHEM 2770/MBIO 2770 (Elements of Biochemistry 1) or CHEM 2360/MBIO 2360 (Biochemistry 1: Bio-molecules and in Introduction to Metabolic Energy).

3. Under required courses, students can take either CHEM 2780/MBIO 2780 (Elements of Biochemistry 2) or CHEM 2370/ MBIO 2370 (Biochemistry 2: Catabolism, Synthesis, and Information Pathways).

4. Under required courses, students can take either BIOL 1412 (Physiology of the Human Body) or BIOL 2410 (Human Physiology 1) and BIOL 2420 (Human Physiology 2). Note that students selecting BIOL 1020 and BIOL 1030 are not required to complete BIOL 1410, and will decrease electives to 3 Credit Hours. The selection of BIOL 1020 and BIOL 1030 will have more options with regard to taking higher level Biology courses as electives.

4.8.4 Bachelor of Science (Human Nutritional Sciences) - Agreement with Red River College Culinary Arts Program

Estimated time to completion based on prerequisites is 3 years.

| Course Number | Course Name | Credit Hours |
|--|---|--------------|
| Required Courses | | |
| CHEM 1300 | Structure & Modeling in Chemistry | 3 |
| CHEM 1320 or CHEM 1310 | Introduction to Organic Chemistry or Introduction to Physical Chemistry | 3 |
| CHEM 2770 | Elements of Biochemistry 1 (see note 2) | 3 |
| CHEM 2780 | Elements of Biochemistry 2 (see note 2) | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |
| BIOL 1410 or BIOL 1020 and BIOL 1030 | Anatomy of the Human Body or Biology 1 and Biology 2 (see note 1) | 3 – 6 |
| BIOL 1412 | Physiology of the Human Body (see note 1) | 3 |
| HNSC 2000 | Research Methods and Presentation | 3 |
| HNSC 2140 | Basic Principles of Human Nutrition | 3 |
| HNSC 2150 | Composition, Functional and Nutritional Properties of Food | 3 |
| HNSC 3220 | Food and Nutrition Literacy Education | 3 |
| HNSC 3300 | Vitamins and Minerals in Human Health | 3 |
| HNSC 3310 | Macronutrients and Human Health | 3 |
| HNSC 3330 | Ingredient Technology for Designed Foods | 3 |
| HNSC 4290 | Food, Nutrition and Health Policies | 3 |
| HNS Courses for Area of Emphasis (6 Credit Hours from A or B) | | |
| Choose one from A or B: | | |
| A. Human Nutrition | | |
| HNSC 4300 or HNSC 4320 | Community Nutrition Intervention or Nutrition Management of Disease States | 3 |
| HNSC 4310 or HNSC 4340 or HNSC 4350 | Nutrition and the Elderly <i>or</i> Maternal Nutrition <i>or</i> Nutrition Exercise and Sport | 3 |
| B. Foods | | |
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 4540 | Functional Foods and Nutraceuticals | 3 |

| | |
|------------------|----------|
| Electives | 6 |
|------------------|----------|

Notes:

1. Students must take BIOL 1410 Anatomy of the Human Body **or** BIOL 1020 Biology 1 and BIOL 1030 Biology 2, **AND** require BIOL 1412 Physiology of the Human Body (3 credits) in order to take HNSC 3310 Macronutrients & Human Health and HNSC 3300 Vitamins and Minerals in Human Health. If BIOL 1020 and BIOL 1030 are selected then BIOL 1412 will take the place of a 3 Credit Hours free elective. Students can take either BIOL 1412 or BIOL 2410 and BIOL 2420.

2. Students can take either CHEM 2770/MBIO 2770 (Elements of Biochemistry 1) **or** CHEM 2360/MBIO 2360 (Biochemistry 1: Bio-molecules and an Introduction to Metabolic Energy). Students can take either CHEM 2780/MBIO 2780 (Elements of Biochemistry 2) **or** CHEM 2370/MBIO 2370 (Biochemistry 2: Catabolism, Synthesis, and Information Pathways).

3. PSYC 1200/SOC 1200 & HNSC 2130 prerequisites are waived in this program for HNSC 3220. HNSC 2140 must be completed before registering for this course.

4.9 Diploma in Agriculture

Director: Michele Rogalsky

Program Advisor: Justin Bouchard

Student Services Office: 160 Agriculture Building

Telephone: (204) 474 9295

Email: aginfo@umanitoba.ca

4.9.1 Diploma in Agriculture Admission as of September 2018

The program is designed for those who plan to manage farms or pursue careers in the agricultural and food service and/or value added sectors. Classes begin in late September and end in March to accommodate students with obligations to plant and harvest crops. The program is also designed for those who plan to transfer credits earned from the Agriculture Diploma program to one of the Faculty of Agricultural and Food Sciences' degree programs.

In order to fulfill the requirements for a Diploma in Agriculture in the Faculty of Agricultural and Food Sciences, students must complete the course requirements for the program core and one of the four program options. Program options are available in Business Management, Crop Management, Livestock Management and General Agriculture. Students will select from restricted and program elective courses to fulfill the program's credit hour requirements. Students planning to register for degree courses should contact an Academic Advisor for the Diploma program, to discuss implications for scheduling and graduation, as these courses start earlier in September and end later in April. The minimum number of Credit Hours required to fulfill the requirements for a Diploma in Agriculture is 93 Credit Hours and the maximum is 105 Credit Hours.

Program Core

The Program Core, common to all students, provides a broad yet integrated education in the production, management and marketing of agricultural and food products and the principles of managing a business. Students are taught to use this knowledge to evaluate the technical and economic feasibility of a variety of alternative agricultural practices.

| Program Core | | |
|------------------------------|---|---------------------|
| First Year, Fall Term | | |
| Course No. | | Credit Hours |
| ANSC 0420 | Animal Biology and Nutrition | 4 |
| ABIZ 0460 | Financial Management 1 | 4 |
| DAGR 0410 | Skills for Agricultural Communication and Decision Making | 4 |
| DAGR 0480 | Introductory Farm Management | 3 |
| PLNT 0410 | Crop Production Principles and Practices | 4 |
| SOIL 0420 | Soil Resources and Productivity | 4 |

| | | |
|--|---|---------------------|
| Total Credit Hours | | 23 |
| First Year, Winter Term | | |
| Course No. | | Credit Hours |
| ABIZ 0470 | Financial Management 2 | 4 |
| ABIZ 0440 | Agricultural Economics and Marketing 1 | 4 |
| BIOE 0222 | Precision Agriculture – Technological Tools for Decision Making | 4 |
| DAGR 0490 | Applied Farm Management | 3 |
| PLNT 0760 | Crop Production Specialization and Innovation | 4 |
| SOIL 0620 | Soil and Water Management | 4 |
| Total Credit Hours | | 23 |
| Second Year, Fall Term | | |
| Course No. | | Credit Hours |
| ABIZ 0450 | Agricultural Economics and Marketing 2 | 4 |
| DAGR 0910 | Integrated Sustainable Agri-Food Systems | 3 |
| DAGR 0980 | Farm Management Project 1 | 3 |
| Total Credit Hours | | 10 |
| Second Year, Winter Term | | |
| Course No. | | Credit Hours |
| DAGR 0920 | Current Issues in Agriculture and Food | 3 |
| DAGR 0990 | Farm Management Project 2 | 3 |
| Total Credit Hours | | 6 |
| Total Credit Hours for Program Core | | 62 |

Program Options

In order to accommodate a modest level of specialization, the students will be required to elect one of four options by the end of first year.

Business Management Option

This option offers a more in-depth education in business management to those who intend to manage farms or work as employees, managers and/or business owners in the agricultural and food service and/or value added sectors.

| | | |
|---|--|---------------------|
| Restricted Electives – Business Management | | |
| Group 1 | | Credit Hours |
| At least three courses from the following: | | |
| ABIZ 0710 | Agricultural Policy | 3 |
| ABIZ 0730 | Financial Risk Management | 3 |
| ABIZ 3530 | Farm Management | 3 |
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| ABIZ 0750 | Advanced Agricultural Financial Management and Lending | 3 |
| Group 2 | | |
| At least one course from the following: | | |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| BIOE 0600 | Farm Machinery | 4 |
| ENTM 0620 | Insect Pest Management | 4 |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0770 | Weed Management | 4 |
| PLNT 0780 | Plant Disease Management | 4 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| SOIL 0630 | Soil Fertility | 4 |
| Group 3 | | |
| At least one course from the following: | | |
| DAGR 0520 | Managing Agricultural Safety | 3 |
| DAGR 0530 | Agricultural Human Resource Management | 3 |

| | | |
|---|---|--------------|
| DAGR 0540 | Exploring New Opportunities in Adding On-Farm Value | 4 |
| DAGR 0550 | Managing Farm Business Transition | 3 |
| DAGR 0610 | Advanced Communication and Leadership | 3 |
| DAGR 0760 | Agricultural Law | 3 |
| Group 4 | | |
| At least one course from the following: | | |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0730 | Horse and Stable Management | 3 |
| Total Credit Hours of Restricted Electives, within option | | 18-22 |
| Plus 10-13 Credit Hours of Program Electives, to complete a minimum of 93 Credit Hours in the program | | |

Crop Management Option

This option is designed for those who plan to manage farms where crops are the primary enterprise or for those who are interested in careers in related agricultural and food service and/or value-added sectors.

| | | |
|--|--|---------------------|
| Option Core – Crop Management | | |
| Course No. | Course Name | Credit Hours |
| PLNT 0770 | Weed Management | 4 |
| PLNT 0780 | Plant Disease Management | 4 |
| SOIL 0630 | Soil Fertility | 4 |
| ENTM 0620 | Insect Pest Management | 4 |
| Restricted Electives – Crop Management | | |
| At least two courses from the following: | | |
| BIOE 0600 | Farm Machinery | 4 |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| Total Credit Hours Option Core | | 16 |
| Total Credit Hours of Restricted Electives, within option | | 6-8 |
| Plus 7-9 Credit Hours of Program Electives, to complete a minimum of 93 Credit Hours in the program. | | |

Livestock Management Option

This option is designed for those who plan to manage operations where animal management and/or production is the primary enterprise or for those who are interested in careers in related agricultural and food service and/or value added sectors.

| | | |
|--|---|---------------------|
| Option Core – Livestock Management | | |
| Course No. | Course Name | Credit Hours |
| ANSC 0600 | Animal Health and Welfare | 3 |
| ENTM 0620 | Insect Pest Management | 4 |
| Restricted Electives – Livestock Management | | |
| Group 1 | | |
| At least one course from the following: | | |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| Group 2 | | |
| At least one course from the following: | | |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0730 | Horse and Stable Management | 3 |
| Group 3 | | |
| At least one course from the following: | | |
| BIOE 0700 | Agricultural Buildings and Environments | 4 |

| | | |
|--|-------------------------------|--------------|
| PLNT 0750 | Forage and Pasture Management | 4 |
| Total Credit Hours Option Core | | 7 |
| Total Credit Hours Restricted Electives, in option | | 11-12 |
| Plus 12-13 Credit Hours of Program Electives, to complete a minimum of 93 Credit Hours in the program. | | |

General Agriculture Option

This option is designed for those who desire a broad general education in applied agricultural and food sciences. The flexibility it provides in course selection makes it well suited for those who plan to manage diversified farm operations and for those who intend to pursue careers in the agricultural and food service and/or value added sectors.

| Restricted Electives - General Agriculture | | |
|---|--|---------------------|
| Course No. | Course Name | Credit Hours |
| Group 1 | | |
| At least one course from the following: | | |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0730 | Horse and Stable Management | 3 |
| Group 2 | | |
| At least one course from the following: | | |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| PLNT 0770 | Weed Management | 4 |
| PLNT 0780 | Plant Disease Management | 4 |
| SOIL 0630 | Soil Fertility | 4 |
| Group 3 | | |
| At least one course from the following: | | |
| ABIZ 3530 | Farm Management | 3 |
| ABIZ 0710 | Agricultural Policy | 3 |
| ABIZ 0730 | Financial Risk Management | 3 |
| ABIZ 0750 | Advanced Agricultural Financial Management and Lending | 3 |
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| Group 4 | | |
| At least one course from the following: | | |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| BIOE 0700 | Agricultural Buildings and Environments | 4 |
| BIOE 0600 | Farm Machinery | 4 |
| Group 5 | | |
| At least one course from the following: | | |
| ENTM 0610 | Insect Pest Management | 4 |
| ENTM 0620 | Beekeeping | 2 |
| Group 6 | | |
| At least one course from the following: | | |
| DAGR 0540 | Exploring New Opportunities in Adding On-Farm Value | 4 |
| FOOD 1000 | Food Safety Today and Tomorrow | 3 |
| HNSC 1200 | Food Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| Group 7 | | |
| At least one course from the following: | | |
| DAGR 0520 | Managing Agricultural Safety | 3 |
| DAGR 0530 | Agricultural Human Resource Management | 3 |
| DAGR 0550 | Managing Farm Business Transition | 3 |
| DAGR 0610 | Advanced Communication and Leadership | 3 |

| | | |
|---|------------------|--------------|
| DAGR 0630 | Special Project | 3 |
| DAGR 0760 | Agricultural Law | 3 |
| Total Credit Hours of Restricted Electives, within option | | 20-26 |
| Plus 5-11 Credit Hours of Program Electives, to complete a minimum of 93 Credit Hours in the program. | | |

Program Electives

Students can select program electives to fulfill the program's 93 credit hour requirement. The following Faculty of Agricultural and Food Sciences' courses are approved as program electives for the Agriculture Diploma program. In addition, students may be allowed to register for a maximum of three credit hours of electives from degree or diploma programs offered outside the Faculty of Agricultural and Food Sciences for credit towards the Agriculture Diploma. Credit for these courses will be granted on the condition that there is not significant overlap of course content. Students planning to register for degree courses should contact an Academic Advisor for the Diploma program, to discuss implications for scheduling and graduation, as these courses start earlier in September and end later in April.

| Course No. | Course Name | Credit Hours |
|-------------------|--|---------------------|
| ABIZ 0710 | Agricultural Policy | 3 |
| ABIZ 3530 | Farm Management | 3 |
| ABIZ 0730 | Financial Risk Management | 3 |
| ABIZ 0740 | Special Topics in Business Management | 3 |
| ABIZ 0750 | Advanced Agricultural Financial Management and Lending | 3 |
| ABIZ 1000 | Introduction to Agribusiness Management | 3 |
| ABIZ 1010 | Economics of World Food Issues and Policies | 3 |
| ANSC 0600 | Animal Health and Welfare | 3 |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0720 | Special Topics in Livestock Management | 3 |
| ANSC 0730 | Horse and Stable Management | 3 |
| BIOE 0600 | Farm Machinery | 4 |
| BIOE 0700 | Agricultural Buildings and Environments | 4 |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| DAGR 0510 | Farm Management Practicum | 3 |
| DAGR 0520 | Managing Agricultural Safety | 3 |
| DAGR 0530 | Agricultural Human Resource Management | 3 |
| DAGR 0540 | Exploring New Opportunities in Adding On-Farm Value | 4 |
| DAGR 0550 | Managing Farm Business Transition | 3 |
| DAGR 0610 | Advanced Communication and Leadership | 3 |
| DAGR 0630 | Special Project | 3 |
| DAGR 0660 | Special Topics in General Agriculture | 3 |
| DAGR 0760 | Agricultural Law | 3 |
| DAGR 0830 | Agriculture Cooperative Education Work Term | 2 |
| ENTM 0610 | Beekeeping | 2 |
| ENTM 0620 | Insect Pest Management | 4 |
| ENTM 1000 | World of Bugs | 3 |
| FOOD 1000 | Food Safety Today and Tomorrow | 3 |
| HNSC 1200 | Food: Facts and Fallacies | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0770 | Weed Management | 4 |
| PLNT 0780 | Plant Disease Management | 4 |
| PLNT 0810 | Special Topics in Crop Management | 3 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| PLNT 1000 | Urban Agriculture | 3 |

| | | |
|-----------|----------------|---|
| SOIL 0630 | Soil Fertility | 4 |
|-----------|----------------|---|

4.9.2 Diploma in Agriculture Admission prior to September 2018

The core curriculum of prescribed courses, common to all students, provides a broad yet integrated education in the production, management and marketing of agricultural products and the principles of managing a business. Students are taught to use this knowledge to evaluate the technical and economic feasibility of a variety of alternative agricultural practices.

Within the program, students are able to specialize in areas of interest. Options are available in Business Management, Crop Management, Livestock Management and General Agriculture. These options are chosen by the student during the first term, first year.

| Prescribed Courses for all Students in these options | | |
|---|--|--------------|
| First Year, Fall Term | | |
| Course No. | Course Name | Credit Hours |
| BIOE 0600 | Farm Machinery | 4 |
| ANSC 0420 | Animal Biology and Nutrition | 4 |
| ABIZ 0440 | Agricultural Economics and Marketing 1 | 4 |
| ABIZ 0460 | Financial Management 1 | 4 |
| DAGR 0410 | Communication and Learning Skills | 4 |
| DAGR 0420 | Introduction to Soils and Crops | 4 |
| DAGR 0680 | Management Planning Project 1 | |
| Total Credit Hours | | 24 |
| First Year, Spring Term | | |
| PLNT 0410 | Cereal and Oilseed Production Practices | 4 |
| SOIL 0420 | Soil Productivity and Land Use | 4 |
| ABIZ 0470 | Financial Management 2 | 4 |
| DAGR 0680 | Management Planning Project 1 ¹ | 3 |
| Total Credit Hours | | 15 |
| | + 3 courses, according to option* | |
| ¹ continuation of course from fall term | | |
| Second Year | | |
| ABIZ 0450 | Agricultural Economics and Marketing 2 | 4 |
| ENTM 0620 | Pest Management and Farm Insects | 4 |
| DAGR 0690 | Management Planning Project 2 | 5 |
| Total Credit Hours | | 13 |
| | + courses, according to option* | |
| Total Credit Hours for prescribed courses | | 52 |
| Total Credit Hours for prescribed courses for option | | 18-24 |
| Total Credit Hours of free electives | | 17-23 |
| Total Credit Hours for Agriculture Diploma | | 93 |

NOTE:

*These additional courses will consist of those required within an option plus free electives, in accordance with the four options described below:

Options

In order to accommodate a modest level of specialization, the students will be required to elect one of four options by the end of first term, first year. Each of these four options has a series of required courses. However, within each option there are also unrestricted electives available to the student who wishes to blend training available in two or more option areas to increase the degree of specialization.

Business Management Option

This option offers a more in-depth education in business management to those people who intend to manage farms or work as employees, managers and/or business owners in the agricultural service sector (agricultural lending, fertilizer, feed and chemical sales, etc.).

Crop Management Option

This option emphasizes soil and crop management. It is designed for people who plan to manage farms where crops are the primary farm enterprise or for those who are interested in careers in industries or businesses that provide services to these types of farms (e.g. crop supply businesses).

| Prescribed Courses for Crop Management Option | | |
|---|--|--------------|
| Course No. | Course Name | Credit Hours |
| PLNT 0770 | Weed Management | 4 |
| PLNT 0780 | Plant Disease Management | 4 |
| SOIL 0620 | Soil Conservation and Management | 4 |
| SOIL 0630 | Soil Fertility | 4 |
| Plus at least one of the following: | | |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0760 | Special Crops | 4 |
| PLNT 0800 | Diversification With Horticultural Crops | 4 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| Plus one Biosystems Engineering course: | | |
| BIOE 0400 | Farm Power | 4 |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| BIOE 0690 | Water Management | 4 |
| Total prescribed Credit Hours, within option | | 22-24 |
| Plus 17-19 Credit Hours of electives, to complete 93 Credit Hours in the program. | | |

Livestock Management Option

This option emphasizes the principles of livestock production, with some degree of specialized attention to beef, dairy, swine, poultry or horse production. It is designed for people who plan to manage farms where livestock production is the primary enterprise or for those who are interested in the agricultural service industries that support livestock production (e.g. feed suppliers).

| Prescribed Courses for Livestock Management Option | | |
|--|--|--------------|
| Course No. | Course Name | Credit Hours |
| ANSC 0600 | Animal Health and Welfare | 3 |
| PLNT 0750 | Forage and Pasture Management | 4 |
| Plus at least one of the following: | | |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| Plus at least one of the following: | | |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0730 | Horse Production and Management | 3 |
| Plus one Biosystems Engineering course: | | |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| BIOE 0700 | Agricultural Buildings and Environments | 4 |
| Total prescribed Credit Hours, within option | | 17-19 |
| Plus 22-24 Credit Hours of electives to complete 93 Credit Hours in the program. | | |

General Agriculture Option

This option exposes the student to crop and livestock production, business management and biosystems engineering beyond the exposure contained in the core curriculum. It is designed for those people who intend to manage diversified farm operations and for those who desire a general education in applied agricultural science.

| Prescribed Courses for General Agriculture Option | | |
|---|--|--------------|
| Course No. | Course Name | Credit Hours |
| At least one of the following: | | |
| ANSC 0670 | Beef Cattle Production and Management | 4 |
| ANSC 0680 | Dairy Cattle Production and Management | 4 |
| ANSC 0690 | Swine Production and Management | 4 |
| ANSC 0700 | Poultry Production and Management | 4 |
| ANSC 0730 | Horse Production and Management | 3 |
| Plus at least one of the following: | | |
| PLNT 0750 | Forage and Pasture Management | 4 |
| PLNT 0760 | Special Crops | 4 |
| PLNT 0800 | Diversification with Horticultural Crops | 4 |
| PLNT 0820 | Organic Crop Production on the Prairies | 3 |
| Plus at least one of the following: | | |
| SOIL 0620 | Soil Conservation and Management | 4 |
| SOIL 0630 | Soil Fertility | 4 |
| Plus at least one of the following: | | |
| ABIZ 0680 | Agribusiness Management | 4 |
| ABIZ 3530 | Farm Management | 3 |
| Plus one Biosystems Engineering course: | | |
| BIOE 0400 | Farm Power | 4 |
| BIOE 0710 | Materials Handling and Electrical Controls | 3 |
| BIOE 0690 | Water Management | 4 |
| BIOE 0700 | Agricultural Buildings and Environments | 4 |
| Total prescribed Credit Hours, within option | | 16-20 |
| Plus 21-25 Credit Hours of electives, to complete 93 Credit Hours in the program. | | |

4.10 Biosystems Engineering

Students in the Bachelor of Science degree in [Biosystems Engineering must be admitted to the Faculty of Engineering](#). The Biosystems Engineering program is outlined in the Faculty of Engineering chapter of this *Calendar*.

The courses below are for students studying in the various majors in Agricultural and Food Sciences and for non-Agriculture students with a special interest in the subjects.

| Course Number | Course Name | Credit Hours |
|---------------|---|--------------|
| BIOE 2090 | Machinery for Agricultural Production | 4 |
| BIOE 2222 | Precision Agriculture Concepts and Applications | 4 |
| BIOE 3530 | Engineering Fundamentals | 3 |
| BIOE 4500 | Water Management | 3 |
| BIOE 4520 | Crop Preservation and Handling | 3 |

4.11 Interfaculty Option in Aging

An Interfaculty Option in Aging is offered by the following faculties and colleges: Agricultural and Food Sciences, Arts, Kinesiology and Recreation Management, Medicine, Nursing, and Social Work.

To complete the option, students in the Human Nutritional Sciences Program must complete each of the following requirements:

| | | |
|---|--|---|
| Required Courses (6 Credit Hours): | FMLY 2650 or REC 2650 or SWRK 2650 The Social Aspects of Aging | KIN 2610 or NURS 2610 Health and Physical Aspects of Aging |
| At least six (6) credit hours of discipline – specific (professional) applied work in the student's department of registration | Rady Faculty of Health Sciences Courses: FMLY 4300 HMEC 4090 Agricultural and Food Sciences Course: HNSC 4362 | Application is required for all field placement or practicum courses. |
| Six (6) credit hours of aging-related courses from participating units (other courses are available from the participating faculties) | Rady faculty of Health Sciences Courses: FMLY 3220 FMLY 3240 FMLY 4220 Agricultural and Food Sciences Courses: HNSC 2130 HNSC 4310 | |

Upon completion of these requirements, a concentration will be added to the student's transcript.

4.12 Minors

As part of the electives portion of their programs, students may declare and complete a Minor from departments or interdisciplinary programs in which a Minor is offered. Completion of a Minor is optional. Information about Minors in faculties other than Agricultural and Food Sciences is found in the appropriate departmental/school/faculty program offerings in the Undergraduate Calendar.

Students may not declare both their Major and Minor from the same department/interdisciplinary program. It should be noted that planning for completion of a Minor should be done early in the program, ideally before 90 credit hours. Completion of a Minor may require that a student take more than the minimum number of credit hours for graduation.

A Management Minor is offered by the [Asper School of Business](#); Agriculture, Agroecology Food Science and Human Nutritional Sciences students may complete this minor (not available to Agribusiness students). The Minor consists of 18 credit hours of courses offered by the Asper School of Business (Faculty of Management).

Minors offered by the Faculty of Agricultural and Food Sciences

Animal Systems

Students may obtain a minor in Animal Systems (18 credit hours) by completing ANSC 2500 Animal Production plus an additional 15 credit hours in Animal Science courses.

Crop Protection

Students may obtain a minor in Crop Protection (18 credit hours) by completing:

- ENTM 3170 Crop Protection Entomology or ENTM 3190 Introduction to Applied Entomology
- PLNT 3540 Weed Science
- PLNT 3570 Fundamentals of Plant Pathology
- PLNT 4270 Plant Disease Control

Plus 6 credit hours from the following list of courses:

- AGRI 2180 Introductory Toxicology
- BIOE 4520 Crop Preservation and Handling
- ENTM 2050 Introductory Entomology
- PLNT 3510 Cropping Systems
- PLNT 3520 Principles of Plant Improvement
- PLNT 4570 Research Methods in Plant Pathology
- PLNT 4580 Molecular Plant-Microbe Interactions
- SOIL 3520 Pesticides: Environment, Economics and Ethics.

Entomology

Students may obtain a minor in Entomology (18 credit hours) by completing ENTM 2050 Introductory Entomology plus an additional 15 credit hours in Entomology courses. Many courses are offered in alternating years, so students should consult the Department Head of Entomology to plan their program.

Food Science

Students may obtain a minor in Food Science (18 credit hours) by completing:

- FOOD 1000 Food Safety Today and Tomorrow
- FOOD 2500 Food Chemistry

Plus an additional 12 credit hours in FOOD courses excluding FOOD 4230 Food Research and FOOD 4120 Food Science Seminar.

Prerequisites for required courses may result in more than 18 credit hours.

Plant Biotechnology

Students may obtain a minor in Plant Biotechnology (18 credit hours) by completing:

- PLNT 2530 Plant Biotechnology

Plus an additional 15 credit hours from the following list of courses:

- PLNT 3140 Introductory Cytogenetics
- PLNT 3520 Principles of Plant Improvement
- PLNT 3570 Fundamentals of Plant Pathology
- PLNT 4330 Intermediate Plant Genetics
- PLNT 4310 Introductory Plant Genomics
- PLNT 4550 Developmental Plant Biology
- PLNT 4560 Secondary Plant Metabolism
- PLNT 4570 Research Methods in Plant Pathology
- PLNT 4580 Molecular Plant-Microbe Interactions
- PLNT 4590 Physiology of Crop Plants
- PLNT 4600 Issues in Agricultural Biotechnology
- PLNT 4610 Bioinformatics.

Soil Science

Students may obtain a minor in Soil Science (18 credit hours) by completing:

- SOIL 3600 Soils and Landscapes in our Environment

Plus an additional 15 credit hours from the following list of courses:

- SOIL 3060 Introduction to Agrometeorology
- SOIL 3520 Pesticides: Environment, Economics and Ethics
- SOIL 3610 Field Methods in Land Resource Science
- SOIL 4060 Physical Properties of Soils
- SOIL 4130 Soil Chemistry and Mineralogy
- SOIL 4400 Soil Ecology
- SOIL 4500 Remediation of Contaminated Land
- SOIL 4510 Soil and Water Management
- SOIL 4520 Soil Fertility

Human Nutrition and Metabolism

Students may obtain a minor in Human Nutrition and Metabolism (18 credit hours) by completing the following courses:

- HNSC 1200 Food: Facts and Fallacies
- HNSC 1210 Nutrition for Health and Changing Lifestyles
- HNSC 2140 Basic Principles of Human Nutrition
- HNSC 3300 Vitamins and Minerals in Human Health
- HNSC 3310 Macronutrients and Human Health
- HNSC 4120 Senior Thesis or HNSC 4540 Functional Foods and Nutraceuticals

Prerequisites for required courses may result in more than 18 credit hours.

4.13 Cooperative Education Program

The Co-operative Education Program integrates academic study with periods of paid work experience relating to the co-op student's area of study. The Program supports students in securing full-time, paid work terms that provide them with the opportunity to apply their academic knowledge, gain practical skills, and obtain directed reflection for further career or research specialization.

Students secure full-time, paid co-op work placements with a faculty-approved employer(s) that are each a minimum of 420 hours, to be completed within 4 months. The faculty supports students on both a group and individual basis to determine his/her learning goals for the work placement. Students are expected to attend an orientation session as well as participate in a series of self-evaluations under the guidance of a sessional instructor. Prior to starting each work term, students are register in AGRI 2002 (first placement), AGRI 3002 (2nd placement), AGRI 4002 (3rd placement) within the term that their co-op placement will take place and pay the fees. Students submit a reflective written report at the end of the work term and are evaluated for both overall participation and the report on a Pass/Fail basis.

Degree Program

Students who have been admitted to an undergraduate program within the faculty are eligible to apply to the Co-operative Education Program. The first work term can start after the first year of a 4-year or second-degree program. Students admitted into the Program must maintain good academic standing (minimum DGPA of 2.0) throughout their co-op work terms.

Each co-op term that receives a Pass mark earns a student 3 credit hours. During a work term, a co-op student may take an additional maximum of 6 credit hours.

Students who have applied and been accepted into the program are encouraged to attend orientation sessions and workshops even if a co-op work term has not yet been secured.

Diploma Program

Admission: To be considered for admission in the Cooperative Education Program, a first year diploma student must have a minimum Degree GPA of 2.5, and have completed at least 47 Credit Hours of studies by the end of the academic year of application.

Students are advised that satisfying the entrance requirements does not guarantee a place in the Cooperative Education Program. Acceptance into the program is dependant upon the student receiving a job placement through the Cooperative Education Office.

Employment Term Requirements: The Cooperative Education Program is a five month program between the first and second year with a faculty-approved employer. The student will receive two credits for completing the Cooperative Education Program. Students are required to register in the employment term course and pay the fee prior to starting the employment term.

4.14 Internationally Educated Agrologists Post-Baccalaureate Diploma

Intake suspended

The Faculty of Agricultural and Food Sciences currently offers the Internationally Educated Agrologists Post-Baccalaureate Diploma Program (IEAP).

The IEAP is a pathway for Internationally Educated Agrologists (IEAs) to gain formal recognition of their non-Canadian credentials by the Manitoba Institute of Agrologists (MIA), the professional regulatory body for Agrologists in Manitoba.

The program facilitates the intergration of foreign-trained agrologists into the Canadian agriculture sector, through a one-year program of coursework and work experience. The program also stresses the importance of essential skills and professional branding by Canadian Standards.

The program assists new Manitobans with an agricultural degree from outside of Canada to achieve meaningful work in their field, and to help the Manitoba agricultural industry discover new talent.

Admission requirements:

Applicants must:

1. Have a degree in agriculture from another country
2. Be a permanent resident or Canadian citizen
3. Have met the English Language Proficiency Requirements
4. Have a valid driver's license, and
5. Have a letter from the Manitoba Institute of Agrologists (MIA) indicating their application for registration has been accepted.

SECTION 5: Course Descriptions

Agribusiness -ABIZ 0 Level

ABIZ 0440 Agricultural Economics & Marketing 1 **4 Cr. Hrs.**

Introduction to key economic concepts and business principles and their application to Canadian agribusiness.

ABIZ 0450 Agricultural Economics & Marketing 2 **4 Cr. Hrs.**

The application of economic analysis in the study of marketing: concepts, policy, practices and institutions. Prerequisite: ABIZ 0440.

ABIZ 0460 Financial Management 1 **Cr. Hrs.**

Study of accounting principles and financial information for the preparation and presentation of financial statements to facilitate the management of farms and agricultural businesses.

ABIZ 0470 Financial Management 2 **4 Cr. Hrs.**

(Lab required) Study of analysis of financial statements and financial information by decision makers managing the finances of farms and agricultural businesses. Prerequisite: ABIZ 0460 (C).

ABIZ 0710 Agricultural Policy **3 Cr. Hrs.**

Review of agriculture, international trade and food safety policies affecting the production and distribution of agricultural commodities and food products.

ABIZ 0730 Financial Risk Management 3 Cr. Hrs.

Various approaches to managing market risk will be studied. This includes forward pricing, hedging and options along with insurance, diversification and technology to manage production risk. Prerequisites: ABIZ 0470 or Pre- or Corequisite: ABIZ 0450.

ABIZ 0740 Special Topics in Business Management 3 Cr. Hrs.

Selected topics of current interest in Business Management. Prerequisite: written consent of Director of the School of Agriculture.

ABIZ 0750 Advanced Agricultural Financial Management and Lending 3 Cr. Hrs

This course will offer realistic templates for assessing loan application cases and determining financial need, production feasibility and repayment for lenders. Students will analyze lender portfolios and the financial management of various enterprises. Students will learn to apply financial management concepts in evaluating investment options in farm and agribusiness decision-making. May not be held with ABIZ 0690 or DAGR 0730. Prerequisite: ABIZ 0470.

Agribusiness and Agricultural Economics- ABIZ 1000 Level

ABIZ 1000 Introduction to Agribusiness Management 3 Cr. Hrs.

Introduction to management principles applied to agribusiness. Topics covered will include cooperative and corporate organizations, financial analysis, marketing and planning. All students will prepare a business plan. Students will use spreadsheet skills with respect to processing information and preparing forecasts.

ABIZ 1010 Economics of World Food Issues and Policies 3 Cr. Hrs.

Determinants of global food consumption, production and the factors underpinning food security and malnutrition. The importance of international trade in balancing countries' supply and demand for food, examination of trade barriers and institutions facilitating trade.

Agribusiness and Agricultural Economics- ABIZ 2000 Level

ABIZ 2210 Transportation Principles 3 Cr. Hrs.

Demand forecasting, cost analysis, regulation of carriers, role of transport in economic development, project appraisal, and transport planning. Also offered as SCM 2210 by the Department of Supply Chain Management.

ABIZ 2390 Introduction to Environmental Economics 3 Cr. Hrs.

Economics of management of water, air and land resources quality, and the economics of conservation. The economic implications of environmental standards, licensing criteria and pollution charges will be illustrated by current issues. Students may not hold credit for both ABIZ 2390 and ECON 2390. Prerequisite: [A grade of "C" or better in ECON 1010 or ECON 1011 or the former ECON 1200 or the former ECON 1201] or [a grade of "C" or better in both ECON 1210 (or ECON 1211 and ECON 1220 (or ECON 1221))].

ABIZ 2510 Introduction to Agricultural and Food Marketing 3 Cr. Hrs.

Economic principles and institutions involved in the Canadian agricultural and food marketing system. Farm and Agribusiness applications. Prerequisite: [A grade of "C" or better in ECON 1010 or ECON 1011 or the

former ECON 1200 or the former ECON 1201] or [a grade of "C" or better in both ECON 1210 (or ECON 1211) and ECON 1220 (or ECON 1221)].

ABIZ 2520 Introduction to Management Sciences 3 Cr. Hrs.

An introduction to management science techniques and models. Topics include linear programming, distribution problems, decision theory and queuing models. May not be held with MSCI 2150 or MSCI 2151. Prerequisites: [MATH 1300 (or MATH 1301) and MATH 1500 (or MATH 1501)] or the former MATH 1680. Pre- or Co requisite STAT 1000 or STAT 1001.

Agribusiness and Agricultural Economics- ABIZ 3000 Level

ABIZ 3080 Introduction to Econometrics 3 Cr. Hrs.

The application of statistical tools, especially regression analysis for estimating economic relationships and testing economic hypotheses through the use of spreadsheets and data sets. Prerequisite: STAT 2000 or equivalent, or a grade of "C" in ECON 3170 and ECON 1010 and ECON 1020 or the former ECON 1200. Also offered as ECON 3180 by the Department of Economics.

ABIZ 3120 Commodity Futures Markets 3 Cr. Hrs.

Theory and economic functions of commodity markets including futures and options markets. The roles of the various participants; the determination of inter-temporal prices and various aspects of hedging will be studied. Prerequisites: [A grade of "C" or better in ECON 1010 or ECON 1011 or the former ECON 1200 or the former ECON 1201] or {a grade of "C" or better in both ECON 1210 (or ECON 1211) and ECON 1200 (or ECON 1221) and STAT 2000}.

ABIZ 3510 Economics of Food Policy 3 Cr. Hrs.

Economics of market intervention; trade policy analysis, and agricultural protection, exports, subsidies, tariffs, quotas; intermediate versus final goods; currency exchange rates and agricultural trade policy; trade agreements. Not to be held with ABIZ 3500. Prerequisites: ECON 2010 or the former ECON 2450.

ABIZ 3520 Food Distribution and International Merchandising (3-0-0-0) 3 Cr. Hrs.

An introduction to management concepts and their application to domestic and international merchandising. Prerequisites: (ABIZ 1000), and (ABIZ 2510 or MKT 2210).

ABIZ 3530 Farm Management 3 Cr. Hrs.

Management decisions and business planning as they relate to farm production, marketing and financing activities. Identifying potential markets; comparative advantage analysis; organizational form and contractual requirements; alternative marketing and production strategies; financing production and marketing activities; develop farm business plan. Prerequisite: ABIZ 1000.

ABIZ 3540 Financial Risk Management 3 Cr. Hrs.

Risk expected returns and valuation of capital; capital budgeting and dealing with risk; derivative securities and financial risk management; agricultural production and management of risk; agricultural risk management and public policy. Prerequisites: STAT 1000 and [ABIZ 1000 or ABIZ 2510].

ABIZ 3550 Environmental Policy 3 Cr. Hrs.

Environmental policy development and enactment in Canada; federal and provincial review processes; socio-political aspects of policy development; chemical and pesticide licensing procedures and environmental effects monitoring; environmental policy and sustainability; case studies; discussion of various policies; ethics of development, preservation and

conservation; environmental risk management. Prerequisite: ABIZ 2390 or ECON 2390.

ABIZ 3560 Agribusiness Portfolio Management 3 Cr. Hrs.

The application of portfolio management to agribusiness, including asset allocation, portfolio construction and analysis, and operation of investment instruments and capital markets. Includes Canadian Securities Course. Prerequisite: Major in Agribusiness or Accounting and/or Finance, with 60 **Credit Hours**, ACC 1100 and ECON 1010 OR ECON 1020 or the former ECON 1200, or permission from instructor. Recommended G.P.A. of 2.80 or higher.

Agribusiness and Agricultural Economics- ABIZ 4000 Level

ABIZ 4120 Intermediate Econometrics 3 Cr. Hrs.

A course in applied econometrics that explores the regression model and how it may be applied. Special emphasis is placed on violations to the assumptions of least squares, specification error, and applying the model to production, marketing, forecasting and other applications. Prerequisite: Written consent of instructor; this course assumes students have had a sound background in economic theory (e.g. micro and macro), as well as single variable calculus, linear algebra, and basic statistics. ABIZ 3080 or ECON 3180 is highly recommended. Also offered as ECON 4120 by the Department of Economics.

ABIZ 4240 Agricultural Economics Special Project 3 Cr. Hrs.

Students will undertake a project to analyze an applied problem and present results in a research and/or extension paper. A list of relevant readings will be assigned. Permission of the Department Head required.

ABIZ 4260 Price Analysis 3 Cr. Hrs.

Theory and methods of price analysis, commodity markets and the demand and supply factors that underpin seasonal, cyclical and secular changes in commodity prices. Prerequisites: [ECON 2010 or the former ECON 2450] and [ABIZ 3080 or ECON 3040 or the former ECON 3180]. Not to be held with ABIZ 4250.

ABIZ 4500 Agribusiness Strategies Seminar 3 Cr. Hrs.

This course will provide participants with insights into management strategies and decision-making, as well as the responsibilities, tensions and pressures encountered by senior management. Some classes will include participation by senior management followed by a debriefing session. Students must have completed 90 **Credit Hours** towards a degree in Agribusiness, or permission of the Department.

Agriculture-AGRI 1000 Level

AGRI 1010 Business Communication 3 Cr. Hrs.

Strengthen the thinking, writing, speaking and listening skills required by IEAP students to succeed in the agricultural, food science or agri-business world. Students will develop an understanding of cultural influence in communication tasks used in academic and workplace settings. Prerequisite: Must be enrolled in the Internationally Educated Agriologists Program.

AGRI 1500 Natural Resources and Primary Agricultural Production 3 Cr. Hrs.

Introduces students to natural resources and climate, primary production of crops and livestock, production and resource economics and rural society. A model of the entire agri-food system will be used to show interrelationships among disciplines, processes, etc.

AGRI 1510 Production, Distribution and Utilization of Agricultural Products 3 Cr. Hrs.

Introduction to the aspects of agriculture that follow primary production and includes confined animal production and a presentation of a model of the entire agrifood system. Special emphasis on processing, marketing, transportation and food safety. Laboratory sessions will use small groups to examine problem based case studies.

Agriculture-AGRI 2000 Level

AGRI 2002 Agricultural and Food Sciences Co-operative Education Work Term 1 3 Cr. Hrs.

A work assignment of a minimum of 420 hours in business, industry, government or research for co-operative education students. Requires submission of a written report covering the work completed during the professional assignment. This course is restricted to students where a co-operative education work term placement in the Agricultural and Food Sciences Co-operative Education Program has been confirmed. May not be held with the former AGRI 4550. Course evaluated on a pass/fail basis.

AGRI 2030 Technical Communications 3 Cr. Hrs.

Lectures and workshops to develop written and oral communication skills for preparing and presenting scientific and technical reports. Basic composition skills, communication graphics and job interview techniques are included. Prerequisite: 24 **Credit Hours** of University.

AGRI 2180 Introductory Toxicology 3 Cr. Hrs.

A survey of general principles underlying the effects of toxic substances on biological systems, including history, scope and applications of toxicology, the mechanisms of toxic action, and some major types of toxicants. Not to be held with BIOL 2380 formerly BOTN 2180, BOTN 2190, ENVR 2180, ENVR 2190, ZOOL 2180, ZOOL 2190. Prerequisite: BIOL 1020 (C) and BIOL 1030 (C) and CHEM 1310 or CHEM 1320.

AGRI 2190 Toxicology Principles 1.5 Cr. Hrs.

A survey of general principles underlying the effects of toxic substances on biological systems, including the history, scope and applications of toxicology, the mechanisms of toxic action. Not to be held with BIOL 2380 or the former BOTN 2180, BOTN 2190, ENVR 2180, ENVR 2190, ZOOL 2180, ZOOL 2190, AGRI 2180. Prerequisite: BIOL 1020 (C) and BIOL 1030 (C) and CHEM 1310 or CHEM 1320.

Agriculture-AGRI 3000 Level

AGRI 3002 Agricultural and Food Sciences Co-operative Education Work Term 2 3 Cr. Hrs.

A work assignment of a minimum of 420 hours in business, industry, government or research for co-operative education students. Requires submission of a written report covering the work completed during the professional assignment. This course is restricted to students where a co-operative education work term placement in the Agricultural and Food Sciences Co-operative Education Program has been confirmed. May not be held with the former AGRI 4560. Prerequisites: AGRI 2002 or the former AGRI 4550. Course evaluated on a pass/fail basis.

AGRI 3030 Modern Topics in Agriculture 1 3 Cr. Hrs.

An interdisciplinary course including topical national and international issues in agriculture. The course will vary from year to year to provide material of current interest in a wide variety of subject areas. Student participation by means of seminars will be encouraged.

AGRI 3040 Modern Topics in Agriculture 2 3 Cr. Hrs.

Similar to AGRI 3030.

Agriculture-AGRI 4000 Level

AGRI 4000 Practicing the Profession of Agriology 1 3 Cr. Hrs.

Introduction to the profession of Agrology in Manitoba with an emphasis on understanding the structure of the agriculture industry, the agriculture network and how it functions. Laboratory sessions will focus on guest speakers and tours of companies and agencies in the agriculture industry. Prerequisite: Must be enrolled into the Internationally Educated Agrologists Program (IEAP).

AGRI 4002 Agricultural and Food Sciences Co-operative Education Work Term 3 3 Cr. Hrs.

A work assignment of a minimum of 420 hours in business, industry, government or research for co-operative education students. Requires submission of a written report covering the work completed during the professional assignment. This course is restricted to students where a co-operative education work term placement in the Agricultural and Food Sciences Co-operative Education Program has been confirmed. May not be held with the former AGRI 4570. Prerequisites: AGRI 3002 or the former AGRI 4560. Course evaluated on a pass/fail basis.

AGRI 4010 Practising the Profession of Agrology II 3 Cr. Hrs.

This course will cover the role of a practising agrologist in Manitoba, with an emphasis on professional ethics and responsibilities, regulations of the agriculture profession in Canada, and the culture of the work environment. Laboratory sessions focus on guest speakers and tours of companies and agencies in the agriculture industry. Prerequisite: Students must be enrolled in the Internationally Educated Agrologists Program.

Agroecology-AGEC 2000 Level

AGEC 2370 Principles of Ecology 3 Cr. Hrs.

Principles of ecology at the individual, population, community, and ecosystem levels. This course is also given in the Faculty of Science as BIOL 2300 (formerly BOTN 2370 or ZOOL 2370). It is the normal prerequisite to other courses in ecology. Not to be held with BIOL 2390 (formerly BOTN 2280) or ZOOL 2290 or BIOL 3260 (formerly BOTN 2291 or BOTN 3280) or BIOL 2370 or BOTN 2371 or ZOOL 2370 or ZOOL 2371. Prerequisite: A grade of "C" in BIOL 1020 or BIOL 1021 and BIOL 1030 or BIOL 1031. Pre- or co-requisite: STAT 1000 or STAT 1001.

Agroecology- AGEC 3000 Level

AGEC 3510 Agroecology 3 Cr. Hrs.

Examination of how ecological principles and processes apply to, and function in, managed ecosystems, with emphasis on agricultural ecosystems. Influence of agricultural practices on populations, ecosystem function and productivity. Ecological concepts as tools in managing systems. Pre- or co-requisite: AGEC 2370 or BIOL 2300 or BIOL 2301 or the former BOTN 2370 or the former BOTN 2371 or the former ZOOL 2370 or the former ZOOL 2371.

Agroecology- AGEC 4000 Level

AGEC 4550 Project in Agroecology 6 Cr. Hrs.

Independent research project on an Agroecological topic. Students perform research and meet regularly with advisors. Progress reports are required, and final results are presented in written and verbal reports. Classes are held on professional topics. Not to be held with AGEC 4540. Prerequisite: AGEC 3510.

Animal Science-ANSC 0 Level

ANSC 0420 Animal Biology and Nutrition 4 Cr. Hrs.

An introduction to animal structure and function. Genetics, growth and reproduction will be related to animal production. Further, the digestive systems of various livestock species will be studied and related to types of feedstuffs that each species can utilize. The general function of nutrients

within animals will also be discussed. Nutrient content of feedstuffs and application to nutrient requirements will be discussed.

ANSC 0600 Animal Health and Welfare 3 Cr. Hrs.

This course will discuss the common livestock and poultry diseases of the prairie provinces. Emphasis will be placed on prevention through management and health programs but treatment of specific diseases will be addressed. Animal welfare as it relates to commercial animal production will be discussed. Prerequisite: ANSC 0420 or equivalent.

ANSC 0670 Beef Cattle Production and Management 4 Cr. Hrs.

Beef cattle industry; the types of beef cattle enterprises and factors affecting profitability of production. Application of principles of nutrition, genetics and physiology in the management of beef cattle enterprises. Prerequisite: ANSC 0420 or equivalent.

ANSC 0680 Dairy Cattle Production and Management 4 Cr. Hrs.

A study of current production practices in Canada's dairy industry with focus on nutrition, reproduction, genetics, health, replacement rearing and marketing. Prerequisite: ANSC 0420 or equivalent.

ANSC 0690 Swine Production and Management 4 Cr. Hrs.

Swine industry; the types of swine enterprises and factors affecting profitability of production. Application of principles of nutrition, genetics and physiology in the management of swine. Prerequisite: ANSC 0420 or equivalent.

ANSC 0700 Poultry Production and Management 4 Cr. Hrs.

The poultry industry; marketing system, breeding, hatchery practices, management and feeding of large scale turkey and chicken enterprises. Prerequisite: ANSC 0420 or equivalent.

ANSC 0720 Special Topics in Livestock Management 3 Cr. Hrs.

Selected topics of current interest in livestock management. Prerequisite: Written consent of Director of the School of Agriculture.

ANSC 0730 Horse and Stable Management 3 Cr. Hrs.

Principles of horse production, including breeding, reproductive management, nutrition, behavior, health and general management. Applications to major sections of the horse industry. There will be one or two field trips.

Animal Science-ANSC 2000 Level

ANSC 2500 Animal Production 3 Cr. Hrs.

Built on concepts introduced in AGRI 1500 and AGRI 1510, by elaborating on the basic essentials of animal production. Prerequisites: AGRI 1500 and AGRI 1510.

ANSC 2510 Anatomy and Physiology 1: Control Systems 3 Cr. Hrs.

Will deal with the structure, functions and interactions of the coordinating/regulatory systems in the animal body; including the nervous, muscular, cardiovascular, respiratory, renal and endocrine systems. Co requisite: CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360.

ANSC 2520 Anatomy and Physiology 2: Nutrient Utilization 3 Cr. Hrs.

The digestion, absorption and utilization of nutrients by farmed species. Basic characteristics of the digestive system, aspects of regulation of feed intake and rates of passage, intermediary metabolism of nutrients, growth and development, health and other factors influencing nutrient utilization. Prerequisite: ANSC 2510. Co requisite: CHEM 2780 or MBIO 2780, or CHEM 2370 or MBIO 2370.

ANSC 2530 Nutritional Toxicology 1.5 Cr. Hrs.

The Science of dietary toxins and their interrelationships with nutrition: mode of action and metabolism of toxic chemicals that occur in food and animal feedstuffs. Prerequisite: AGRI 2190.

ANSC 2540 Companion animal nutrition and management **3 Cr. Hrs.**

Course material will cover the functional anatomy, genetics, nutrition, reproduction, behavior, and diseases of non-equine companion animals and ornamental fish. Pre- or Co requisite; CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360 or consent of instructor.

Animal Science- ANSC 3000 Level

ANSC 3500 Principles of Animal Genetics **3 Cr. Hrs.**

Topics discussed will include population genetics, quantitative variation, selection and mating systems with particular reference to domestic species. Prerequisite: PLNT 2520.

ANSC 3510 Feeds and Feeding **3 Cr. Hrs.**

A detailed discussion of feedstuffs used for domestic animals, animal nutrient requirements, ration balancing, feedstuff processing and feed safety. Prerequisite: ANSC 2520.

ANSC 3520 Animal Reproduction **3 Cr. Hrs.**

The comparative anatomy and physiology of reproduction of farmed animals will be emphasized. Focus will be on the natural synchronization of reproductive processes and the potential to regulate and improve reproductive efficiency. Prerequisite: ANSC 2510.

ANSC 3530 The Animal and Its Environment **3 Cr. Hrs.**

Deals with how the animal is influenced by its environment to affect health, welfare and performances. Principles of farmed animal behavior, welfare and behavioral management, health, and facility design and modification will be considered in the context of animal/environment interactions. Co requisite: ANSC 2520.

Animal Science-ANSC 4000 Level

ANSC 4090 Livestock Problems **3 Cr. Hrs.**

A minor thesis on livestock problems, prepared by the student under direction. (For Animal Systems Majors only). Prerequisite: Consent of department head.

ANSC 4220 Animal Science Investigations **6 Cr. Hrs.**

Minor research on some problem in animal science. Instruction and supervision in setting up the project, in collecting and processing data, and in writing the report. (For fourth-year students in Animal Systems Major only.) Prerequisite: Consent of Department Head.

ANSC 4240 Mathematical modeling of biological systems **3 Cr. Hrs.**

Lectures and computer based laboratory exercises will be used to discuss mathematical modeling methods applied to biological systems taking aspects of animal science as a model to develop modeling techniques. Prerequisite: MATH 1500 or MATH 1520 or Equivalent.

ANSC 4280 Applied Animal Genetics **3 Cr. Hrs.**

Application of principles of animal breeding. Modern methods, techniques, and programs for genetic improvement of cattle, sheep, and swine. Prerequisite: ANSC 3500.

ANSC 4410 Grassland Agriculture: Plant, Animal and Environment **3 Cr. Hrs.**

Inter-relationships between the biological components of grassland agriculture as they relate to forage production on the Canadian Prairies. Topics include utilization by wild and domestic animals, plant community

relationships and role of forages in multiple land use planning. This course also given in Plant Science as PLNT 4410.

ANSC 4500 Animal Health **3 Cr. Hrs.**

Responses of basic animal functions to challenge by potentially pathogenic organisms, genetic or metabolic disorders, and toxicants will be discussed. Strategies for prevention and treatment will be outlined. Offered in 2005-2006 and alternate years thereafter. Prerequisite: ANSC 2520.

ANSC 4510 Domesticated Animal Behaviour **3 Cr. Hrs.**

An awareness and understanding of normal behaviors of animals will be emphasized. Relationships between behavior, welfare and management will be explored. Emphasis will be on farmed animals but companion animals, wild animals and laboratory species will also be discussed. Prerequisite: ANSC 2520 or consent of the instructor. Offered in 2006-07 and alternate years thereafter.

ANSC 4520 Ruminant Production Systems-Meat **3 Cr. Hrs.**

To provide an appreciation of the industry in terms of size, complexity and relationship to the economy and give an understanding of the breeding, feeding, management and marketing strategies for modern ruminant production systems. Open only to students holding at least 60 **Credit Hours**. Prerequisite: ANSC 2500.

ANSC 4530 Ruminant Production Systems-Milk **3 Cr. Hrs.**

Will describe the industry in terms of size, complexity and relationship to the economy and give an understanding of the breeding, feeding, management and marketing practices in a modern system for milk production. Open only to students holding at least 60 **Credit Hours**. Prerequisite: ANSC 2500.

ANSC 4540 Monogastric Production Systems **3 Cr. Hrs.**

Describes the swine industry in terms of size, complexity and relationship to the economy and gives an understanding of the breeding, feeding, management and marketing practices in a modern production unit. Outlines other monogastric production systems of relevance to the agriculture industry. Open only to students holding at least 60 **Credit Hours**. Prerequisite: ANSC 2500.

ANSC 4550 Avian Production Systems **3 Cr. Hrs.**

Describes the various avian systems in terms of size, complexity, and relationship to the economy and gives an understanding of the management and marketing practices in the usual poultry systems. Open only to students holding at least 60 **Credit Hours**. Prerequisite: ANSC 2500.

ANSC 4560 Issues in Animal Agriculture **3 Cr. Hrs.**

Through a combination of lectures and independent group learning activities students will develop an appreciation of the scope and complexities of current issues facing the animal industry and integrate knowledge accumulated through the Animal Systems Program using case study problems and group project work.

ANSC 4570 Advanced Applied Animal Nutrition **3 Cr. Hrs.**

An advanced study of theoretical and applied aspects of monogastric and ruminant nutrition. A laboratory component will provide training in current techniques in feed analyses and computer modeling. Offered in 2005-2006 and alternate years thereafter. Prerequisite: ANSC 3510.

Biosystems Engineering Course Descriptions-0 Level

BIOE 0222 Precision Agriculture- Technological Tools for Decision Making **4 Cr. Hrs.**

(Lab required) Precision agriculture is a philosophy of agricultural management that has been enabled by modern technology. This course

will examine both the technology and the techniques that can be used to improve the efficiency of agricultural operations by decreasing costs, increasing profits, and decreasing hazards to the environment. Students will be introduced to current and emerging technologies for crop, livestock and business management. Students will have the opportunity to apply data generated from these technologies to support decision making required by farm managers.

BIOE 0600 Farm Machinery 4 Cr. Hrs.

Operating principles of basic farm implements with emphasis on seed cleaning, seeding, tillage, haying, and harvest machines including their selection, adjustment, efficiency, and cost of operation with respect to test data.

BIOE 0700 Agricultural Buildings and Environments 4 Cr. Hrs.

Factors that impact the practicality of farm buildings. Components of buildings, including materials and construction techniques. Techniques of maintaining building environments to facilitate production and/or storage.

BIOE 0710 Materials Handling and Electrical Controls 3 Cr. Hrs.

Fundamental concepts and systems approach to storing, conditioning, moving, processing, and metering of agricultural produce. Principles and practices of fans, grain drying, dust control, and electrical supply. Students may not hold credit for BIOE 0710.

Biosystems Engineering Course Descriptions-2000 Level

BIOE 2090 Machinery for Agricultural Production 4 Cr. Hrs

Farm machinery selection. Machine performance. Ownership and operating costs. Analysis of machine functions for safety and efficiency.

BIOE 2110 Transport Phenomena 3 Cr. Hrs

Principles of heat transfer, solar radiation, psychometrics, molecular diffusion, mass transfer and refrigeration and their application to biosystems. Prerequisite: ENG 1460.

BIOE 2222 Precision Agriculture Concepts and Applications 4 Cr. Hrs

Precision agriculture is a philosophy of agricultural management that has been enabled by modern technology. This course examines the technology and the techniques of precision agriculture including GPS, GIS, variable rate technologies, and yield monitoring that can be used to improve the efficiency of agricultural operations by decreasing costs, increasing profits, and decreasing hazards to the environment.

BIOE 2480 Impact of Engineering on the Environment 3 Cr. Hrs

Students will gain an understanding of overall sustainability of industrial activities, life-cycle and risk assessment techniques for sustainability, and design improvements to enhance environmental performance of engineered systems. This course will introduce basic methodologies for conducting environmental impact assessments, including physical, chemical, ecological, social and economic impacts. May not be held with the former BIOE 4480. Registration restricted to Biosystems Engineering students.

BIOE 2590 Biology for Engineers 3 Cr. Hrs

Provide theories and principles of Biology to engineering students and present applications of biological principles to engineering problems. Fundamental theories involved in cell structure and function, metabolism, genetics and heredity, bacteria and virus structure and function, plant and animal structure and function are covered. An introduction to animal and plant physiology is also provided. Laboratory sessions and term assignments focus on the engineering applications of these basic theories

and principles to provide a good understanding of the role of Biology in Engineering. Prerequisite: CHEM 1300.

BIOE 2600 Plant and Animal Physiology for Engineers 4 Cr. Hrs

Plant and animal physiology as affected by environment for use in the design of agricultural machines, structures, and food processes for biological products; models of simulation of plant and animal growth. Prerequisite: BIOE 2590. May not be held with the former AGRI 2200.

BIOE 2790 Fluid Mechanics 4 Cr. Hrs

(Lab required) Definition of fluid; fluid properties; variation of pressure in a fluid; hydrostatic forces; buoyancy; kinematics of flow; control volumes; continuity; Bernoulli's equation; energy equation; flow in closed conduits; open channel flow. Prerequisites: ENG 1440 (or ENG 1441) and (MATH 1710 or MATH 1700 or MATH 1701). Not to be held with CIVL 2790.

BIOE 2800 Solid Mechanics 4 Cr. Hrs

(Lab required) Analysis of deformable bodies; stress and strain in three dimensions; equilibrium equations and strain-displacement relations; constitutive relations and mechanical behaviour of materials; radially symmetric and plane problems in elasticity; relevant experimental demonstrations. Prerequisites: ENG 1440 (or ENG 1441) and (MATH 1710 or MATH 1700 or MATH 1701). Not to be held with CIVL 2800.

BIOE 2900 Biosystems Engineering Design 1 4 Cr. Hrs

An introduction to the professional discipline of Biosystems Engineering and the philosophy of systems thinking that is used by the Biosystems engineer. Students will be introduced to several principles (i.e., safety engineering, human factors engineering and biomimicry) that should be considered during the design process, and will be given opportunity to apply these principles to design problems. The course will provide opportunity for students to develop technical communication, project management and teamwork skills. May not be held with BIOE 2580. Prerequisite: ENG 1430.

Biosystems Engineering Course Descriptions-3000 Level

BIOE 3270 Instrumentation and Measurement for Biosystems 4 Cr. Hrs

Basic instrumentation for measuring electrical and non-electrical quantities associated with biosystems engineering and industry; transducers for automatic control. Prerequisites: [MATH 2132 (or the former MATH 2110)] and ENG 1450.

BIOE 3320 Engineering Properties of Biological Materials 4 Cr. Hrs

(Lab required) Engineering properties of biological and interacting materials within the system. Relationship between composition, structure, and properties of plant, animal, and human tissues. Definition and measurement of mechanical, thermal, electromagnetic, chemical and biological properties and their variability. Use of these properties in engineering calculations. Prerequisites: [Math 2130 (or the former Math 2110)] and [BIOE 2800 or CIVL 2800 or MECH 2222 (or the former Mech 2220)].

BIOE 3400 Design of Structural Components in Machines 4 Cr. Hrs

(Lab required) Design of structural components in machines; designing for axial tension and compression, connections for axial loadings, pinned trusses, bending, torsion, and combined loads; designing for welded connections; use of fluid power to enable movement of structural components. Students will use the computer as a design tool. May not be held with the former BIOE 4530. Prerequisite: BIOE 2800 or CIVL 2800 or MECH 2222.

BIOE 3530 Engineering Fundamentals 3 Cr. Hrs

Principles of heat transfer, steam, psychometrics, fluid mechanics, material balances, electricity and refrigeration. Cannot be held for credit in the Faculty of Engineering. Prerequisite: [MATH 1300 or equivalent] and [MATH 1500 or equivalent] or the former MATH 1680.

BIOE 3590 Mechanics of Materials in Biosystems 4 Cr. Hrs

(Lab required) In this course students will be exposed to both the theory and physical behaviour of materials when subjected to loads. The course will be delivered using a combination of lectures and hands-on labs. The materials presented include a wide range of materials biosystems engineers may be involved with, including plastics, bone, wood, concrete, steel, other biological materials and composites. Prerequisite: BIOE 2800 or CIVL 2800, or MECH 2222.

BIOE 3900 Biosystems Engineering Design 2 4 Cr. Hrs

An introduction to the use of reverse engineering to deduce design features from previously-designed products or systems. Considerations such as design for sustainability and design for disassembly will be discussed. Students will have opportunity to use reverse engineering principles i) to understand how components fit together to form functional systems, ii) to identify flaws and iii) to propose design improvements. Students will learn appropriate techniques for documenting the reverse engineering process. Theory of project management will also be taught and discussed. Prerequisites: [BIOE 2900 or the former BIOE 2580] and ENG 2022 or the former ENG 2020].

Biosystems Engineering Course Descriptions-4000 Level

BIOE 4240 Graduation Project 3 Cr. Hrs

Either an independent or a directed study including at least one of: a comprehensive literature review, an experimental research project, or an engineering design problem. The project is to be concluded by a formal report or thesis. Prerequisites: BIOE 3270 or approval of department.

BIOE 4390 Unit Operations 1 4 Cr. Hrs

(Lab required) Equipment and systems used in handling, mixing, size reduction, separation and size enlargement of value-added food products. Prerequisites: BIOE 2790 or CIVL 2790 or MECH 2262. Pre- or Corequisites: BIOE 3320 and BIOE 3270.

BIOE 4412 Design of Light-Frame Building Systems 4 Cr. Hrs

(Lab required) Light-frame buildings as a structural and environmental system; structural loads in building systems; energy (heat), moisture and air contaminants in building systems; built-environment for building occupants. Hands-on labs of constructing small-scale structures for students to gain an understanding of building construction techniques. May not be held with CIVL 4024. Prerequisites: BIOE 2110. Pre- or Corequisite: BIOE 3590.

BIOE 4414 Imaging and Spectroscopy for Biosystems 4 Cr. Hrs

The purpose of this course is to familiarize senior Biosystems Engineering students with the fundamentals of imaging and spectroscopy for biosystems. Techniques of image acquisition, storage, processing, and pattern recognition will be taught. Various spectroscopy techniques and their applicability to biological materials will be discussed. Analysis of data using statistical, artificial neural networks and chemometric methods will be covered. Offered in alternate years. Prerequisite: BIOE 3270.

BIOE 4416 Topics in Biosystems Engineering 3 Cr. Hrs

This course will cover contemporary topics in Biosystems Engineering. The specific topics and a detailed outline will be available at the time of registration. Prerequisite: Permission of the department.

BIOE 4420 Crop Preservation 4 Cr. Hrs

Biological and physical deterioration during storage. Methods of preserving and storing cereals, oilseeds, and other agricultural crops. Prerequisite: BIOE 2110.

BIOE 4440 Bioprocessing for Biorefining 4 Cr. Hrs

This course will provide students with an understanding of the principles involved in the design of proper conditions for processing of biomaterials for production of high-quality biofuels and bioproducts. The content of this course is built on the principles of physics, transport phenomena, thermodynamics, reaction, kinetics, fermentation, and industrial unit operations. Prerequisite: BIOE 2110. Pre- or corequisite: BIOE 3320.

BIOE 4460 Air Pollution Assessment and Management 4 Cr. Hrs

(Lab required) Air pollutant sources and characteristics, their impact on the environment, their behaviour in the atmosphere. Methods of sampling and measurement and the basic technological alternatives available for separation/removal and control. Particular problems of regional interest are discussed. Pre- or Corequisites: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4500 Water Management 3 Cr. Hrs

Introduction to the design of irrigation and drainage systems. Topics in irrigation include sprinklers, laterals, mainline and pumps. Drainage topics cover both the surface and subsurface systems. Analysis of precipitation and runoff. Environmental impacts of water management. Offered alternate years.

BIOE 4520 Crop Preservation and Handling 3 Cr. Hrs

Interaction of biological and physical factors related to methods of preserving, storing, and handling cereals, oilseeds, and other agricultural crops. Offered alternate years.

BIOE 4560 Structural Design in Wood 4 Cr. Hrs

Design using wood as a structural material in light-frame buildings. Consideration of design constraints associated with sawn lumber as well as based composite materials. Emphasis on use of computer based design aids. Prerequisites: CIVL 3770 or BIOE 3590.

BIOE 4590 Management of By-Products from Animal Production 4 Cr. Hrs

(Lab required) Topics covered include solid and liquid manure, manure characteristics, manure collection, storage, land application and utilization, biological treatment, design of equipment and facilities for manure handling. Environment issues, such as odour and water pollution associated with manure management will also be discussed. Prerequisites: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4600 Design of Water Management Systems 4 Cr. Hrs

To introduce the basic theoretical principles in the design of irrigation and drainage systems. Topics covered include the determination of irrigation depth and interval, evapotranspiration, measurement and analysis of precipitation, design of sprinkler and drip irrigation systems, selection of pumps, surface and subsurface drainage design, water quality issues, salinity management, and the environmental impact of water management practices. Corequisite: SOIL 4060 or CIVL 3730 or consent of instructor.

BIOE 4610 Design of Assistive Technology Devices 4 Cr. Hrs

Application and design of technology for individuals with disabilities; emphasizing the development of the requisite knowledge, skills, and attitudes to evaluate, design, and implement client-centred assistive technology. A multi-disciplinary approach to learning and applying knowledge will be emphasized with engineering and medical rehabilitation students collaborating on a design project. Prerequisite: BIOL 1412 (or ZOOL 1330).

BIOE 4620 Remediation Engineering 4 Cr. Hrs

(Lab required) The theoretical basis for the engineering design of different remediation technologies to treat contaminated soil and groundwater will be introduced. Methods for site characterization, monitoring of progress in remediation, and modeling of the remediation process will be presented. Different methods such as soil washing, air sparging, bioremediation, phytoremediation, constructed wetlands, electrokinetic remediation, reactive barriers will be discussed. Prerequisite: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4640 Bioengineering Applications in Medicine 4 Cr. Hrs

This course surveys bioengineering applications and medicine from a clinical engineering perspective. Topics include: clinical engineering practice; device development legislation; biomedical sensors; biosensors; biomaterials and biocompatibility; as well as the principles of and design for medical imaging equipment. Prerequisites: BIOL 1410 (or ZOOOL 1320) and BIOL 1412 (or ZOOOL 1330) and BIOE 3320.

BIOE 4650 Textiles in Healthcare and Medical Applications 4 Cr. Hrs

This course provides students with an introduction to medical textiles and healthcare products used in current practices, as well as fundamentals for designing textile products and devices that improve the health and quality of life of human beings. The course includes both basic topics related to healthcare and medical textiles (i.e., materials and structures, nanofibers for medical uses, comfort and health problems with textiles, biocompatibility and biostability issues) and applications of textile products for healthcare and medical end uses (i.e., protective and hygiene textiles, external devices, tissue engineering and intelligent/smart textiles). May not be held with TXSC 3500 or TXSC 4500. Prerequisite: BIOE 2590. Pre- or Corequisite: BIOE 3320.

BIOE 4700 Alternative Building Design 4 Cr. Hrs

(Lab required) This course will provide students with experience in the design of structures that utilize natural and green building materials and techniques. Students will get hands-on lab experience with various natural building materials such as straw, straw light clay, cob and stackwall. May not be held with CIVL 4024. Pre- or Corequisites: BIOE 3590 or CIVL 3770.

BIOE 4900 Biosystems Engineering Design 3 4 Cr. Hrs

An opportunity for the Biosystems Engineering student to practice fundamental engineering competencies (project management, technical communication) in the preparation of a preliminary design for the client. Students will be expected to demonstrate professionalism as a part of a design team. May not be held with BIOE 3580. Prerequisite: BIOE 3900.

BIOE 4950 Biosystems Engineering Design 4 4 Cr. Hrs

An opportunity for the Biosystems Engineering student to validate a conceptual solution to an engineering problem through fabrication and testing of a prototype. Students will be expected to employ project management skills to ensure completion of both prototype and an engineering report for a client by the end of the semester. May not be held with BIOE 4580. Prerequisite: BIOE 4900.

Entomology Course Descriptions-0 Level

ENTM 0610 Beekeeping 2 Cr. Hrs

Introduction to beekeeping that includes economics and marketing of honey and beeswax, equipment and its construction, pollen and nectar plants, pollination, management systems, diseases and pests, honey handling, package bees, wintering of bees, etc.

ENTM 0620 Pest Management and Farm Insects 4 Cr. Hrs

Characteristics, damage, and identification; insecticide use and safety; life histories and control of common Manitoba livestock, field and farmyard insects. General principles of pest management in agriculture will also be discussed.

Entomology Course Descriptions-1000 Level

ENTM 1000 World of Bugs 3 Cr. Hrs

A survey of insect biology and life styles with emphasis on insect diversity and human-insect interactions.

Entomology Course Descriptions-2000 Level

ENTM 2050 Introductory Entomology 3 Cr. Hrs

A basic course for students requiring a foundation in entomology. The anatomy, life history, identification, adaptations, and relations of insects to humans are examined along with methods of collecting and preserving insect specimens.

Entomology Course Descriptions-3000 Level

ENTM 3160 Veterinary and Wildlife Entomology 3 Cr. Hrs

An introduction to the insects and their relatives that affect domestic animals, pets and wildlife. Special consideration is given to life histories, insect/host interaction, evolutionary relationships, impact on host vertebrates and pest management. Not all courses are offered every year. Please contact the department regarding course availability.

ENTM 3162 Manitoba's Insect Fauna 3 Cr. Hrs

A collection of insects is required. Emphasis is placed on collecting techniques, specimen preparation, diversity of species collected, organization and curatorial skills, and accuracy of identification. Students should contact instructors in April preceding registration in this course. Prerequisite: ENTM 2050.

ENTM 3170 Crop Protection Entomology 3 Cr. Hrs

A course for students requiring a foundation in entomology and knowledge of major insect pest groups in Western Canada. The pests and principles for their control (chemical, cultural, mechanical, physical and biological methods) are explored with emphasis on the entire ecosystem. Students may not hold credit in ENTM 3170.

ENTM 3180 Field Techniques in Entomology 3 Cr. Hrs

A field course to provide a foundation in field sampling and collection techniques for insects in natural and agroecosystems. The course is run at the University of Manitoba Star lake research station near Whiteshell MB. Transportation to and from the University and accommodations are included. Six day intensive field-based course. Prerequisites: none.

ENTM 3190 Introduction to Applied Entomology 3 Cr. Hrs

A course providing a foundation in applied entomology covering topics including: basic insect biology, insect pest management, insect biodiversity and the biological services provided by insects. Online lecture presentations, weekly readings and online laboratories. Prerequisites: none. May not be held with ENTM 3170.

Entomology Course Descriptions-4000 Level

ENTM 4000 Topics in Entomology 3 Cr. Hrs

A Course of assigned readings and literature review essays for students in the minor in Entomology program. Prerequisite ENTM 2050 and consent of department head.

ENTM 4250 Pesticide Toxicology 3 Cr. Hrs

Action, behaviour, and fate of pesticides in target and non-target species and in the environment. Past, present, and future chemical control agents will be discussed on the basis of chemical and biochemical knowledge. Prerequisite: A course in biochemistry. Not all courses are offered every year. Please contact the department regarding course availability.

ENTM 4280 Aquatic Entomology 3 Cr. Hrs

Adaptations and significance of insects to aquatic habitats, with emphasis on identification. Aquatic insects as indicator species of pollution and their response to chemical pesticide application. A collection of aquatic insects is required. Prerequisites: ENTM 2050; AGECE 2370 or BIOL 2300 (formerly ZOO 2370) or BOTN 2370; or consent of instructor. Not all courses are offered every year. Please contact the department regarding course availability.

ENTM 4320 Pollination Biology 3 Cr. Hrs

The biology, ecology of social, semisocial and solitary insect pollinators and their ecological interactions with entomophilous plants. Not all courses are offered every year. Please contact the department regarding course availability.

ENTM 4500 Insect Taxonomy and Morphology 3 Cr. Hrs

Study of insect structure combined with evolution of insect orders. Modern concepts of subspecies, species and higher taxa. Collection required (contact instructor for details in April/May of preceding year.) Students may not hold credit for ENTM 4500. Prerequisite: ENTM 2050 or consent of instructor.

ENTM 4520 Physiological Ecology of Insects 3 Cr. Hrs

The effect of environmental factors such as temperature, moisture, light and other organisms on the physiology and ecology of insects. Prerequisite: ENTM 2050 or consent of instructor. Not all courses are offered every year. Please contact the department regarding course availability.

Food and Human Nutritional Sciences- FOOD course descriptions-1000 level

FOOD 1000 Food Safety Today and Tomorrow 3 Cr. Hrs

A contemporary examination of the safety of the food supply - where, how and why problems may arise and what is and can be done to consistently achieve high quality, safe food. Controversial issues (residues, organic, biotechnology, irradiation) will be discussed in a balanced manner, and prospects for the future presented.

Food and Human Nutritional Sciences- FOOD course descriptions 2000 level

FOOD 2500 Food Chemistry 3 Cr. Hrs

The chemical components of food. Chemical problems and chemical changes which exist uniquely in foods. Prerequisite: CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360.

Food and Human Nutritional Sciences- FOOD course descriptions-3000 level

FOOD 3010 Food Process 1 3 Cr. Hrs

The basic principles and practices of the major techniques used in food processing and preservation are covered. Emphasis is placed on thermal processing, drying, evaporation, chilling, freezing, separation, packaging and sanitation. Also preservation by salting, smoking, microwave, radiation

and chemical techniques is presented. Critical issues in food regulations are introduced. Prerequisite: any MATH course at the 1000 level.

FOOD 3160 Frozen Dairy Products 3 Cr. Hrs

Technology of frozen dairy products, including selection and processing of materials and handling of products. Standards and quality control programs for major dairy products will be covered. Offered in 2006-07 and alternate years thereafter.

FOOD 3170 Cheese and Fermented Milk Products 3 Cr. Hrs

Selection and evaluation of raw materials and lactic cultures are covered. Processing, packaging and distribution of cheddar and cottage cheese, cultured milk, cream and yogurt are studied. Offered in 2005-2006 and alternate years thereafter.

FOOD 3200 Baking Science and Technology 3 Cr. Hrs

The science and technology of transforming wheat into quality baked foods. Focus will be on the biophysical and biochemical basis for the functionality of intrinsic wheat constituents, e.g. starch, and gluten proteins, and extrinsic ingredients, e.g. yeast, chemical leaveners, fats, oxidants, enzymes and other improvers. Principles of product formulations and modern processing techniques used to add value to wheat as diverse foods will also be covered. Prerequisite: CHEM 2770 or MBIO 2770.

FOOD 3210 Food Engineering Fundamentals 3 Cr. Hrs

Applications of engineering fundamentals to unit operations in the food industry. Prerequisite: BIOE 3530.

FOOD 3220 Grains for Food and Beverage 3 Cr. Hrs

The science and technology behind the functionality of major Canadian cereal grains and grain legumes for food and beverage. Grains covered include wheat, barley, oats, peas, beans, and lentils in the context of their processing into products such as bread, pasta and beer, and foods high in dietary fibre. Details are presented on the differing physical and chemical attributes of grains to make quality products with focus on the roles of protein, starch, and non-starch polysaccharides. Prerequisite: FOOD 2500 or equivalent.

FOOD 3500 Processing of Animal Food Products 3 Cr. Hrs

Processing of materials of animal origin will be studied with emphasis on product quality and safety. Impact of initial characteristics as well as processing technologies will be discussed in relation to nutritive value, convenience, functionality, aesthetic factors and food safety. Prerequisite: CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360. Offered in 2006-2007 and alternate years thereafter.

Food and Human Nutritional Sciences- FOOD course descriptions-4000 level

FOOD 4010 Food Process 2 3 Cr. Hrs

The processing of specific food groups is covered. The functions and changes in the primary chemical components (carbohydrates, proteins and lipids) of the commodities receive special consideration. New technologies including thermal/nonthermal processing, radiation, extrusion, minimal processing and other advanced processing methods will be studied. Prerequisite: FOOD 3010.

FOOD 4120 Food Science Seminar 3 Cr. Hrs

Written and verbal presentations of selected topics of current interest in the food science area. Should be taken in fourth year.

FOOD 4150 Food Microbiology 1 3 Cr. Hrs

Relationships of microorganisms to processing and spoilage of food.

FOOD 4160 Food Analysis 1 3 Cr. Hrs

This course exposes students to the principles, methods, and techniques of qualitative and quantitative physical, chemical and biological analyses of foods. Major emphasis is placed on understanding the basic principles of classical and instrumental methods of analysis. Criteria for the choice of various analytical methods, methods for treating data and sampling techniques will be studied. Prerequisite: FOOD 2500.

FOOD 4200 Quality Control in Foods 3 Cr. Hrs

Fundamentals of quality control and their industrial application through physical, chemical, microbiological, statistical and sensory methods will be studied. Statistical process control (SPC) will be mainly covered; required background knowledge of statistics will be reviewed briefly. Prerequisite: FOOD 3010.

FOOD 4230 Food Research 3 Cr. Hrs

Research interests and aptitudes of students are developed through specific project assignments related to the food industry. Prerequisite: Permission of Department Head required.

FOOD 4240 Analysis of Water and Wastes 3 Cr. Hrs

Introduction to the principles and application of the standard methods employed in the analysis of water and wastes in the food processing industry.

FOOD 4250 Food Analysis 2 3 Cr. Hrs

Advanced techniques employed in the physico-chemical analysis of food products as preparation for research, development, and inspection roles in government and in industry. Prerequisite: FOOD 4160.

FOOD 4260 Water Management in Food Processing 3 Cr. Hrs

The course is devoted to the management of water and wastewater in food processing. The roles of water in food processing, recycle and reuse opportunities, treatment options for water and wastewater are presented. The course also discusses water stewardship in relation to food processing, water and wastewater regulations and implication for HACCP and ISO. Laboratory sessions are designed for the student to become familiar with Standard Methods for the Examination of Water and Wastewater.

FOOD 4310 Introduction to HACCP 3 Cr. Hrs

This course will cover the principles related to hazard analysis and critical control points (HACCP), a food safety and self-inspection system that is widely endorsed internationally by industry, consumer and regulatory groups. HACCP examines chemical, physical and biological hazards and identifies critical control points involved in producing, manufacturing and processing food products. Prerequisite or co requisite: FOOD 4150 or consent of instructor.

FOOD 4500 Food Safety and Regulations 3 Cr. Hrs

Current food safety issues; government, industry and consumers' role in organizing a safe food supply system; food laws and regulations in Canada and internationally. Preventative measures to increase food safety and sanitation will also be covered. Offered in 2005-2006 and alternate years thereafter. Prerequisites: FOOD 4150 or FOOD 4300.

FOOD 4510 Food Product Development 3 Cr. Hrs

This course will allow the student to gain an understanding of the product development procedure as it relates to the food industry. Emphasis will be on application of basic knowledge of foods and food processing in designing a new product. Prerequisites: MKT 2210, STAT 2000 or equivalent, FOOD 3010 or consent of instructor. Cannot be held with HNSC 4280.

FOOD 4540 Functional Foods and Nutraceuticals 3 Cr. Hrs

The course will examine the bioactive components of functional foods and nutraceuticals, their sources, chemistry, process technology, efficacy, safety and regulation. Prerequisite: CHEM 2770 or MIBO 2770 or MBIO 2360 or CHEM 2360.

Food and Human Nutritional Sciences- HNSC course descriptions-1000 Level

HNSC 1100 Nutrition for Healthy Living 3 Cr. Hrs

An introduction to nutrition and practical approaches for healthy diet and disease prevention. Prerequisites: Enrollment in the Aboriginal Community Wellness Diploma program. Not to be held with HNSC 1210

HNSC 1200 Food: Facts and Fallacies 3 Cr. Hrs

This course will present facts and fallacies about food from harvest to market forms. Emphasis will be placed on technological development, consumer concerns and factors affecting nutritional quality. Current issues related to food safety and nutritional trends will also be discussed.

HNSC 1210 Nutrition for Health and Changing Lifestyles 3 Cr. Hrs

This course addresses the relationship between nutrition and health. The focus is on healthy eating and on strategies for modifying food patterns within the context of lifestyle and culture. Not to be held with HNSC 1100.

Food and Human Nutritional Sciences- HNSC course descriptions-2000 Level

HNSC 2000 Research Methods and Presentation 3 Cr. Hrs

(Lab required) An introduction to research designs, methods and techniques, as well as the practice of disseminating results, in the context of selected determinants of health. Applications in natural and social sciences will be presented. Skills related to presenting research findings will be taught. May not be held with HMEC 2000 or HMEC 2050. Prerequisite: STAT 1000 (D) or STAT 1150 (D).

HNSC 2130 Nutrition Through the Life Cycle 3 Cr. Hrs

Examination of nutritional needs throughout the life cycle, the nutritional concerns of different age groups and the development of healthy eating practices. Prerequisite: HNSC 1210.

HNSC 2140 Basic Principles of Human Nutrition 3 Cr. Hrs

The scientific principles underlying nutrient function and dietary requirements. Prerequisites: A grade of C or higher in [CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360] and [HNSC 1210 and HNSC 1200] or [FOOD 2500].

HNSC 2150 Composition, Functional and Nutritional Properties of Foods 3 Cr. Hrs

Food composition, food market forms, food composition data for nutritional assessment and labelling. Prerequisites: HNSC 1200 and HNSC 1210 and [CHEM 1320 or CHEM 1310].

HNSC 2160 Principles of Food Preparation and Preservation 3 Cr. Hrs

(Lab Required) Food preparation, preservation, handling and storage; quality and safety implications; scientific basis for culinary practice; use and application of equipment. Prerequisite: HNSC 1200 and [CHEM 1320 or CHEM 1310].

HNSC 2170 Nutrition for Health Professionals 2 Cr. Hrs

An examination of the fundamentals of nutrition and the relationship between nutrition and health within the context of the health professions. The focus is on nutritional strategies used to promote health and in the treatment of common health conditions. May not be held with HNSC 2370, or the former ORLB 2150, ORLB 2330, or the former PHRM 2420. This course is restricted to students registered in Nursing or Pharmacy.

Food and Human Nutritional Sciences- HNSC course descriptions-3000 Level

HNSC 3220 Food and Nutrition Literacy Education 3 Cr.Hrs.

Students will develop a critical understanding of the influences on food and nutrition behaviours and how to positively impact these through evidence-informed food and nutrition education strategies. May not be held with the former HNSC 3320. Prerequisites: A grade of D or better in (PSYC 1200 or SOC 1200) and HNSC 2130 and HNSC 2140.

HNSC 3260 Food Quality Evaluation 3 Cr. Hrs

Discussion of quality concepts and quality assurance principles for food applications, and of methods for evaluation of sensory, chemical and physical aspects of quality. The course will include food industry visits and demonstrations of food testing techniques. Prerequisites: [HNSC 2160 or FOOD 3010] and STAT 2000.

HNSC 3300 Vitamins and Minerals in Human Health 3 Cr. Hrs

The physiological importance of vitamins and minerals in the human body, including factors affecting dietary requirements, metabolism and roles in disease progression and prevention. Prerequisites: [CHEM 2780 or MBO 2780 or CHEM 2370 or MBO 2370] and HNSC 2140 and [BIOL 1412 or 2420 (ZOO 1330 or 2540)].

HNSC 3310 Macronutrients and Human Health 3 Cr. Hrs

Macronutrient functions and metabolic roles in human health, including the prevention and pathogenesis of various diseases. Prerequisites: [CHEM 2780 or MBO 2780 or CHEM 2370 or MBO 2370] and [HNSC 2140 and [BIOL 1412 or 2420 (ZOO 1330 or 2540)].

HNSC 3330 Ingredient Technology for Designed Foods 3 Cr. Hrs

Chemical and functional properties of ingredients and their application in designed foods: low fat, low calorie, high fibre, high energy and innovative food products. Prerequisites: [CHEM 2780 or MBO 2780 or CHEM 2370 or MBO 2370 and HNSC 2150] or [CHEM 2220 and FOOD 2500].

HNSC 3342 Management for Food and Nutrition Professionals 3 Cr. Hrs

Management strategies and cost control principles as applied to food and nutrition organizations. Topics include leadership, organizational design, teamwork, human resource management, performance improvement, cost management, and the interpretation of financial statements. Not to be held with HNSC 3340. Prerequisites: HNSC 2150 and HNSC 2160 and GMGT 1010.

HNSC 3350 Culture and Food Patterns 3 Cr. Hrs

(Lab Required) A study of the cultural, sociological and psychological aspects of food patterns and behaviour. Prerequisites: [PSYC 1200 or SOC 1200] and HNSC 1200 and HNSC 1210.

HNSC 3400 Nutrition Assessment and Counselling 3 Cr.Hrs.

(Lab required) Introduction to the fundamentals of professional dietetic practice, nutrition assessment, health care meal and menu planning, interviewing and counselling. For students registered in the Human Nutritional Sciences degree (Nutrition option or Second Degree - dietetics preparation). Prerequisite: HNSC 2140 (D).

HNSC 3870 Food Geographies 3 Cr. Hrs

This course provides a critical examination of the geographies of food at a variety of scales, from the body to the global. The course focuses on themes in three interconnected areas: 1) food production and the global food system from farm to plate including agribusiness and alternative food production and distribution models; 2) food consumption habits and beliefs and foodways as geographically contingent material culture; and 3) food (in) security and its relationship to health and wellbeing. This course is cross-listed with GEOG 3870. Prerequisites: A grade of "C" or better in GEOG

1280, GEOG 1281, GEOG 1200 or HNSC 1200, or permission of the department head.

Food and Human Nutritional Sciences- HNSC course descriptions-4000 Level

HNSC 4120 Senior Thesis 3 Cr. Hrs

The preparation and presentation of a report based on a survey of the literature or on a laboratory investigation of an approved topic. Prerequisites: Students must be registered in their final year of Human Nutritional Science program or the Minor in Human Nutrition and Metabolism. Application required. Enrolment limited. Not to be held with HNSC 4122 or HNSC 4600.

HNSC 4122 Research Project in Human Nutritional Sciences 6 Cr. Hrs

A research project in any aspect of human nutritional sciences, chosen in consultation with the supervising faculty member. A written report and a poster or oral presentation required at the end of the project. Students must be registered in their final year of Human Nutritional Sciences program. Application required. Enrolment limited. May not be held with HNSC 4120 or HNSC 4600.

HNSC 4140 Quantity Food Production and Management 3 Cr. Hrs

(Lab Required) Menu planning. Food costing. Experience in standard methods of institutional food production and service. Prerequisites: HNSC 3340 or HNSC 3342 and HNSC 2160 or consent of instructor. Additionally, students must complete the Food Handlers Certificate Program and must submit the form to the Department by June 15th in order to be permitted to enter HNSC 4140.

HNSC 4160 Seminar in Foods and Nutrition 3 Cr. Hrs

A critical study of research in the field of foods and nutrition; oral and written reports required. Restricted to 4th year majors in the Department. Prerequisites: completion of 84 **Credit Hours** in the HNS program and HMEC 2000 or HMEC 3100.

HNSC 4260 Selected Topics in Human Nutrition 3 Cr. Hrs

Recent developments in human nutrition research. Prerequisite: consent of instructor.

HNSC 4270 Sensory Evaluation of Food 3 Cr. Hrs

(Lab Required) Sensory perception, principles of the sensory analysis of food, requirements for sensory testing, test methods, selection and training of panelists, statistical analysis and interpretation of data. Prerequisites: [HNSC 2160 or FOOD 3010 or ENTM 3240] and STAT 2000 or equivalent.

HNSC 4280 Food Product Development 3 Cr. Hrs

This course focuses on food industry product development procedures. Emphasis will be on application of basic knowledge of foods and food processing in designing a new product. Prerequisites: MKT 2210 and STAT 2000 and [one of FOOD 3010 or HNSC 3330]. Not to be held with FOOD 4510.

HNSC 4290 Food, Nutrition and Health Policies 3 Cr. Hrs

Principles and applications of policies, regulations and legislation in the areas of food and health that address nutrition and health problems of populations. Prerequisites: HMEC 2000(or 2050) and HNSC 2130 or 2140 and HNSC 2150 and STAT 2000.

HNSC 4300 Community Nutrition Intervention 3 Cr. Hrs

Principles of planning and evaluating nutrition related interventions. Examples of community needs assessments, program planning strategies and types of program evaluation will be examined. Prerequisite: HNSC 3220 (or the former HNSC 3320) (D).

HNSC 4310 Nutrition and the Elderly 3 Cr. Hrs

The role of nutrition in health promotion and disease prevention during aging. Prerequisites: HNSC 3220 (or the former HNSC 3320) (D) and HNSC 3310 (D). Pre- or corequisite: HNSC 3300 (D).

HNSC 4320 Nutrition Management of Disease States 3 Cr. Hrs

(Lab required) Nutritional assessment and dietary management of acute and chronic disease states. Pre- or corequisites: HNSC 3220 (or the former HNSC 3320) (D) and HNSC 3300 (D) and HNSC 3310 (D).

HNSC 4340 Maternal and Child Nutrition 3 Cr. Hrs

The role of nutrition in normal human development from conception through childhood. Pre- or corequisites: HNSC 3220 (or the former HNSC 3320) (D) and HNSC 3300 (D) and HNSC 3310 (D).

HNSC 4350 Nutrition in Exercise and Sport 3 Cr. Hrs

The application of nutritional regimens to meet exercise requirements and improve athletic performance. Current practices and recommendations for different types of sports will be examined. Prerequisites: [HNSC 1210] and [PHED 3430, or KIN 3470, or PHED 3470] or [ZOO 1330].

HNSC 4362 Nutrition Option Practicum 6 Cr. Hrs

Practical applications of nutrition principles in a variety of nutrition-related field placements in the community. Prerequisites: In 3rd or 4th year of a Human Nutritional Sciences degree program and HMEC 2000. Pre- or corequisite: HNSC 3220 (or the former HNSC 3320) (C). Application to the department is required. Limited enrolment.

HNSC 4364 Foods Industry Option Practicum 6 Cr. Hrs

This course involves supervised application of food quality, safety, and management principles in a commercial or government setting. Requirements include 280 hours of work related to the field experience. Prerequisites: Completion of 84 **Credit Hours** in Human Nutritional Sciences, including the following courses from the Food Industry Option: HNSC 3260, HNSC 3330, FOOD 4150 and GMMT 1010. Application to department is required. Limited enrolment.

HNSC 4540 Functional Foods and Nutraceuticals 3 Cr. Hrs

This course will examine the bioactive components of functional foods and nutraceuticals, their sources, chemistry, process technology, efficacy, safety and regulation. Prerequisite: [CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360]. Not to be held with FOOD 4540.

HNSC 4600 Practice-based Research in Human Nutritional Sciences 3 Cr. Hrs

A practice-based research project for students pre-selected into the Manitoba Partnership Dietetic Education Program. Enrolment limited to pre-selected students; to be taken in the Winter term in the same year that their Dietetic Internship starts. Departmental approval required. May not be held with HNSC 4120 or HNSC 4122.

Plant Science Course Descriptions-0 Level**PLNT 0410 Crop Production Principles and Practices 4 Cr. Hrs**

(Lab required) This course provides a broad understanding of the principles and practices of crop production. The importance of crop production for western Canada and for worldwide food production. Constraints, challenges and opportunities will be explored. The course will cover crop plant biology and provide an introduction to agronomic management practices for Manitoba crop production. Topics will include crop rotation, cultivar selection, tillage, seeding, fertilizer, pest control, precision agriculture and bio security.

PLNT 0750 Forage and Pasture Management 4 Cr. Hrs

(Lab required) This course covers for forage crops and the continuum of improved and unimproved pasture land a discussion of production practices including: choice of species and cultivars of forage crops, cultural management including tillage practices, pest control, forage harvesting, grazing management and seed production. Prerequisite: PLNT 0410 or the former DAGR 0420.

PLNT 0760 Crop Production Specialization and Innovation 4 Cr. Hrs

(Lab required) Tools and research to support sound agronomic decision-making for production of cereals, oilseeds, pulses and upcoming innovative special crops in Manitoba. An emphasis on assessing potential of incorporating innovative and specialized crops to achieve economical and ecological benefits. The course will address planning, production and harvesting of special crops as well as product quality, opportunities for processing and marketing. Prerequisite: PLNT 0410 or the former DAGR 0420.

PLNT 0770 Weed Management 4 Cr. Hrs

General principles of weed management and pesticide use safety as they relate to weed control. Topics will include weed biology and identification, economic importance, principles of chemical, cultural, mechanical and biological weed management, introduction to herbicides including modes of action and factors influencing their use, selectivity, risks for development of herbicide-resistant weeds and how to mitigate this risk. Prerequisite: PLNT 0410 or the former DAGR 0420.

PLNT 0780 Plant Disease Management 4 Cr. Hrs

(Lab required) General principles of pest management and pesticide use safety as they relate to plant disease control. Discussion of diseases attacking field and horticultural crops in the prairies including: disease symptoms, cycles, prevention and control. Prerequisite: PLNT 0410 or the former DAGR 0420.

PLNT 0810 Special Topics in Crop Management 3 Cr. Hrs

Selected topics of current interest in Crop Management. Prerequisite: written consent of the Director of the School of Agriculture.

PLNT 0820 Organic Crop Production on the Prairies 3 Cr. Hrs

Management principles and practices involved in the production of organic field and forage crops with a focus on the Canadian Prairie Region. Prerequisites: PLNT 0410 (or the former DAGR 0420) and SOIL 0420.

Plant Science Course Descriptions-1000 Level**PLNT 1000 Urban Agriculture 3 Cr. Hrs**

Urban environments and their importance for food production, increasing biodiversity, and reducing pollution are presented. Topics include principles of vegetable, fruit and herb production, landscape plants, and utilization of natural systems for composting, water management and reduced pesticide use. Benefits to environment, community development, and human health are discussed.

Plant Science Course Descriptions-2000 Level**PLNT 2500 Crop Production 3 Cr. Hrs**

An introduction to the principles and practices of crop production in Canada. Topics will include physiological processes and factors affecting plant yield, plant improvement, seed production, and production of the major cereal, oilseed, forage and special crops. Prerequisite: AGRI 1500.

PLNT 2510 Fundamentals of Horticulture 3 Cr. Hrs

Principles of the culture, marketing, and utilization of fruits, vegetables, and ornamentals, their contribution to the economy and well-being of consumers, and impact of horticultural activities on the environment.

Prerequisites: BIOL 1020 and BIOL 1030; AGRI 1500; or consent of instructor. This course is offered in alternate years.

PLNT 2520 Genetics 3 Cr. Hrs

Basic principles of genetics and their practical application in the areas of DNA structure and function, genome organization and genetic analysis. Laboratory sessions provide practical experience in solving genetic problems and conducting genetic investigations. Not to be held with BIOL 2500 or the former BOTN 2460. Prerequisite: a minimum grade of "C" in BIOL 1020 and BIOL 1030.

PLNT 2530 Plant Biotechnology 3 Cr. Hrs

An introduction to current biotechnological techniques, including recombinant DNA, plant tissue culture, plant transformation and regeneration. A background to the techniques as well as a discussion of their applications in current biology and crop production will be examined. A laboratory will provide first hand experience with many of the techniques. Prerequisites: CHEM 2360 or MBIO 2360 or CHEM 2770 or MBIO 2770 and PLNT 2520 or BIOL 2500 or the former BOTN 2460.

Plant Science Course Descriptions-3000 Level**PLNT 3140 Introductory Cytogenetics 3 Cr. Hrs**

An introduction to the structure and function of eukaryotic genomes, from the gene to the chromosome. Topics include the cell cycle, meiosis, chromatin, chromosome and genome organization, karyotyping, changes in chromosome number and structure, physical mapping and chromosome evolution. Labs cover use of the microscope, meiosis, chromosome staining and banding, and bioinformatic analysis of chromosomes. Prerequisites: PLNT 2520 or BIOL 2500 or the former BOTN 2460.

PLNT 3400 Plant Physiology 3 Cr. Hrs

(Lab required) An integrative view of major physiological processes in plants, spanning the biochemical, cellular, tissue, organ and whole plant levels of organization. The focus will be on photosynthesis, respiration, plant water relations, plant mineral nutrition, and the role of hormonal and extrinsic factors in the regulation of plant growth. This course is taught together with BIOL 3400. Students may not hold credit for both BIOL 3400 and PLNT 3400. Not to be held with the former BIOL 3450 or BOTN 2020 or PLNT 3500. Prerequisites: BIOL 1030; CHEM 2770 or MBIO 2770 or CHEM 2360 or MBIO 2360; BIOL 2242 or the former BOTN 2010 or consent of instructor.

PLNT 3510 Cropping Systems 3 Cr. Hrs

Examination and analysis of sustainable prairie cropping systems. Emphasis will be placed on integrated systems that optimize the benefits of crop rotation, and conserve soil, water and wildlife resources. Conventional, traditional and alternative crop production systems will be discussed. Includes a limited number of tutorials to allow for field tours and guest speakers. Prerequisite: PLNT 2500.

PLNT 3520 Principles of Plant Improvement 3 Cr. Hrs

Basic objectives, principles, and methods of plant genetic improvement. Traditional and modern plant breeding, genetic resources, selection, and applications of tissue culture, genetic engineering and molecular markers to plant improvement. Prerequisite: PLNT 2520 or BIOL 2500 or the former BOTN 2460.

PLNT 3540 Weed Science 3 Cr. Hrs

Identification, biology and ecology of weeds of agricultural importance in western Canada, including principles of cultural, mechanical, biological and chemical control. Topics include weed interference, effects of rotational and management practices on weed species composition, herbicide selectivity and mechanism of action, and emerging control technologies.

Prerequisites: BIOL 1020 and BIOL 1030; AGRI 1500 or consent of instructor.

PLNT 3560 Organic Crop Production on the Prairies 3 Cr. Hrs

Management principles and practices involved in the production of organic field and forage crops with a focus on the Canadian Prairie region. Also available in online delivered format. Prerequisites: PLNT 2500 and SOIL 3600 or consent of instructor.

PLNT 3570 Fundamentals of Plant Pathology 3 Cr. Hrs

An introduction to the science of plant pathology. Topics include causal agents of diseases, symptoms and diagnoses, modes of infections and spread, mechanisms in disease and control, effects of the environment on disease development, and methods of disease control. This course is a prerequisite for more advanced courses in plant pathology. Prerequisite: BIOL 2260 or the former BOTN 2210.

Plant Science Course Descriptions-4000 Level**PLNT 4270 Plant Disease Control 3 Cr. Hrs**

Diseases attacking field crops and horticultural plants: recognition of symptoms, methods of prevention, alleviation, and control. Prerequisite: PLNT 2500 or consent of instructor.

PLNT 4310 Introductory Plant Genomics 3 Cr. Hrs

An introduction to basic technologies in plant genomics. Topics include DNA sequencing, molecular marker detection, genome sequencing, gene expression analysis, gene mapping and functional analysis. A laboratory will provide hands-on experience with several genomic techniques. Not to be held with the former PLNT 4540. Prerequisites: PLNT 2520 OR BIOL 2500 or the former BOTN 2460 or consent of instructor.

PLNT 4330 Intermediate Plant Genetics 3 Cr. Hrs

A study of gene behaviour as related to genetic analyses of data from plant populations; multiple allelic systems and polygenic inheritance of quantitative traits; extra-chromosomal inheritance and the significance of cytoplasmic influence. Examples will be drawn from experimental data where available. Prerequisite: PLNT 2520 or BIOL 2500 or the former BOTN 2460.

PLNT 4380 Plant Science Thesis 6 Cr. Hrs

An independent research project under the supervision of a staff member. A thesis including a literature review, methods, results and discussion is required. Enrollment limited. Open only to students in their 4th year. Not to be held with SOIL 4080. Prerequisite: Consent of department head.

PLNT 4410 Grassland Agriculture: Plant, Animal and Environment 3 Cr. Hrs

Inter-relationships between the biological components of grassland agriculture as they relate to forage production on the Canadian Prairies. Topics include utilization by wild and domestic animals, plant community relationships and role of forages in multiple land use planning. This course also offered in Animal Science as ANSC 4410.

PLNT 4550 Developmental Plant Biology 3 Cr. Hrs

An introduction to mechanisms regulating morphogenesis and plant growth and development. Emphasis will be on experimental approaches used to investigate pattern formation at sub cellular, cellular, tissue and organ levels. A heavy tissue culture component in the lab will implement the lecture topics and will provide new insights into ways to study plant

development in vitro. Prerequisite: PLNT 3400 or BIOL 3400 or the former PLNT 3500.

PLNT 4570 Research Methods in Plant Pathology 3 Cr. Hrs

Course will provide practical training in plant pathology and will cover plant disease diagnosis, pathogen isolation, identification, inoculation, and storage. Molecular techniques currently used in the study of plant pathogens will be covered. The laboratory component aims at preparing students for a professional career in plant protection and research in plant pathology. Prerequisite: PLNT 3570 or consent of instructor.

PLNT 4580 Molecular Plant-Microbe Interactions 3 Cr. Hrs

Course will cover general principles and mechanisms related to plant-pathogen interactions, such as in gene-to-gene and toxin models. Emphasis will be on biochemical/molecular mechanisms of plant-microbe recognition, pathogenesis, and plant reactions to infections. Both beneficial and deleterious associations will be covered. Prerequisite: PLNT 3570. This course is offered in alternate years.

PLNT 4590 Physiology of Crop Plants 3 Cr. Hrs

Concepts dealing with the physiological response of crop plants to the environment from the time of seed germination through to reproduction. Prerequisites: PLNT 3400 or BIOL 3400 or consent of instructor.

PLNT 4600 Issues in Agricultural Biotechnology 3 Cr. Hrs

By lecture, group discussion, individual/group projects selected topics related to the introduction and application of modern biotechnologies in agriculture will be examined. Acquiring a critical appreciation of the multidimensional issues associated with the application of biotechnology will be the goal. Students must have completed 84 **Credit Hours** towards a degree, or permission of instructor. Prerequisite: PLNT 2530.

PLNT 4610 Bioinformatics 3 Cr. Hrs

An introduction to the theory, strategies, and practice of data management and analysis in molecular biology. Topics include DNA and protein sequence analysis, biological databases, genomic mapping, and analysis of gene expression data. The course will include problem-solving exercises using Unix server-based software. Prerequisites: PLNT 2530 or PLNT 3140 or MBIO 3410 or PLNT 4310 or the former PLNT 4540 or consent of instructor.

Soil Science Course Descriptions-0 Level

SOIL 0420 Soil Resources and Productivity 4 Cr. Hrs

(Lab required) Soil formation; soil physical, chemical and biological properties; soil classification systems, maps and reports; soil fertility, crop nutrients, soil sampling and testing; agricultural productivity. A full-day field trip is required.

SOIL 0620 Soil and Water Management 4 Cr. Hrs

(Lab required) Soil, water and crop management techniques and considerations for: weather and climate risk; variability of soil properties and capability; saline, sodic and acidic soils; soil erosion risk; trace element toxicity; maintenance of soil organic matter. Prerequisite: SOIL 0420.

SOIL 0630 Soil Fertility 4 Cr. Hrs

Soil nutrients and their behavior; evaluation of soil fertility including soil testing for precision agriculture; crop response to fertilizers; manufacture, properties, reactions and applications of fertilizer. Prerequisite: SOIL 0420.

Soil Science Course Descriptions-3000 Level

SOIL 3060 Introduction to Agrometeorology 3 Cr. Hrs

Basic description and discussion of properties of the atmosphere, radiation, temperature, effect of temperature on plant growth, climate and animal

response, water, evapotranspiration, insect adaptation, activity in relation to climate, climatic data.

SOIL 3520 Pesticides: Environment, Economics and Ethics 3 Cr. Hrs

A comprehensive examination of the benefits and risks of pesticide use. Topics include: Characteristics of pesticide products and formulations used in Western Canada; History, practice, successes and failures in the use of pesticides in agriculture; Pesticide use for protecting human health; Pesticide fate processes in air, soil and aquatic environments; Economic and environmental impact of pesticide application drift; Atmospheric pesticide contamination; Pesticide surface and groundwater contamination; Pesticide toxicity to organisms, including humans; Pesticide residues in food; Pesticide regulations; Pesticide risk indicators; Alternatives to pesticides.

SOIL 3600 Soils and Landscapes in Our Environment 3 Cr. Hrs

Discover why soil is an essential resource. Explore the roles of soils and landscapes within natural and agricultural ecosystems by learning the fundamental biological, chemical and physical properties and processes; soil and landscape classification and evaluation.

SOIL 3610 Field Methods in Land Resource Science 3 Cr. Hrs

This course provides students with training in field methods used in soil science and related sciences (hydrology, meteorology, ecology, geomorphology, and environmental science). Students participate in a biophysical survey of a field site and in a study of the management, assessment and monitoring of land resources. Prerequisite: SOIL 3600

Soil Science Course Descriptions-4000 Level

SOIL 4060 Physical Properties of Soils 3 Cr. Hrs

Physical properties of soils and their relation to plant growth. Topics discussed include particle size distribution, soil water, soil structure, soil temperature, and soil aeration. Prerequisite: SOIL 3600 or BIOE 2110 or consent of instructor.

SOIL 4130 Soil Chemistry and Mineralogy 3 Cr. Hrs

Composition of soil materials. Reactions of nutrients and contaminants with soil organic matter, silicate clays, oxides and other soil constituents which affect their mobility and bioavailability. Prerequisite: SOIL 3600 or consent of instructor.

SOIL 4400 SOIL ECOLOGY 3 Cr. Hrs

Explore the application of soil biology to diversity in agro ecosystems, response of soil organisms to management, mediation of important environmental issues, and promotion of human health. Appreciate the vast array of soil organisms and their functions in soil ecosystems, understand cycling of nutrients by soil organisms, and discover quantitative methodology in determining soil biochemical processes. The laboratory provides hands-on experience in observing, quantifying and isolating soil organisms and the biochemical processes they conduct. Prerequisite: AGEQ 2370 or Biol 2300 or SOIL 3600.

SOIL 4500 Remediation of Contaminated Land 3 Cr. Hrs

Physical, chemical and biological approaches to remediation of land including; nature of contaminants, procedures for assessing the extent of the impact, consequences to the environment, approaches to remediation and case studies of contaminant remediation. Prerequisite: SOIL 3600 or consent of the instructor.

SOIL 4510 Soil and Water Management 3 Cr. Hrs

Topics include: capability of land for agriculture; storage, movement and use of water; saline and alkaline soils; soil conservation including erosion; sustainability of soil organic matter; effect and fate of soil amendments. Prerequisite: SOIL 3600.

SOIL 4520 Soil Fertility 3 Cr. Hrs

Forms and behaviour of plants nutrients in soil; soil fertility evaluation and management, including fertilizer sources and practices. Prerequisite: SOIL 3600.

5.2. Diploma in Agriculture Course Descriptions**DAGR 0410 Skills for Agricultural Communication and Decision Making 4 Cr. Hrs**

(Lab required) A course designed to improve critical thinking and abilities in written and oral communication to support student success in their academic careers and as agricultural industry professionals.

DAGR 0480 Introductory Farm Management 3 Cr. Hrs

Students will be introduced to the various roles that are carried out by farm managers. Students will be required to attend interview sessions outside of scheduled classes with an assigned Farm Management Advisor. The Advisor will support students as they apply their management skills and knowledge to a real farm business or a case farm. There will be one full day field trip. May not be held with the former DAGR 0680.

DAGR 0490 Applied Farm Management 3 Cr. Hrs

An introduction to an objectives-driven plan that deals with production and financial management. Students will generate and analyze enterprise budgets and financial statements. Students will be required to attend interview sessions outside of scheduled classes with an assigned Farm Management Advisor. The Advisor will support students as they apply their management skills and knowledge to a real farm business or a case farm. There will be three full day field trips. May not be held with the former DAGR 0680. Prerequisites: DAGR 0480 and ABIZ 0460. Pre or Co-requisite: ABIZ 0470.

DAGR 0510 Farm Management Practicum 3 Cr. Hrs

Students will have the opportunity for practical hands-on experience and to apply the knowledge they have acquired to intensify study of livestock or crop production management. May not be held with DAGR 0630 when titled "Glenlea." Prerequisite: Consent of the Director of the School of Agriculture.

DAGR 0520 Managing Agricultural Safety 3 Cr. Hrs

This course provides introductory information on farm safety. It is designed to raise awareness about safety issues and legislation in the agricultural industry, and get students thinking about safety in their own worksite or on their family farm operations. May not be held with DAGR 0660 when titled "Farm Safety."

DAGR 0530 Agricultural Human Resource Management 3 Cr. Hrs

Students will apply processes such as job analysis and design, recruitment and selection, training and development, performance management, and compensation management to develop a comprehensive human resource management plan for an agricultural enterprise. Human Resource legislation will be covered and resources to support human resource management decision making will be identified. Prerequisite: DAGR 0480.

DAGR 0540 Exploring New Opportunities in Adding On-Farm Value 3 Cr. Hrs

(Lab required) A practical study of the opportunities for farm operators to increase value return for farm products with innovative approaches to production, processing and marketing. Students will learn from case studies the challenges and realities of value chain integration. Students will develop their ability to critically evaluate business plans for farm product enterprises. Prerequisites: ABIZ 0460 and DAGR 0480. Pre- or corequisites: ABIZ 0470 and DAGR 0490.

DAGR 0550 Managing Farm Business Transition 3 Cr. Hrs

This course is designed to provide students with the tools and knowledge to incorporate transition management into their farm business management planning. Students will be introduced to family profiles/dynamics, business structures as well as financial and managerial influences that affect farm and business transition options. There will be an application of real farm examples as context to the instructional material. May not be held with DAGR 0660 when titled "Succession/Transition Considerations in Farm Management" or the former DAGR 0780. Prerequisites: ABIZ 0460 and DAGR 0480. Pre- or corequisites: ABIZ 0470 and DAGR 0490.

DAGR 0610 Advanced Communication and Rural Leadership 3 Cr. Hrs

A course designed to improve leadership potential and develop advanced communication skills for agricultural industry professionals. Prerequisite: DAGR 0410.

DAGR 0630 Special Project 3 Cr. Hrs

This project allows a student to make practical application of scientific knowledge acquired and/or to intensify the study of a topic of particular interest. A satisfactory report is required to qualify for credit. Prerequisite: Consent of the Director of the School of Agriculture.

DAGR 0660 Special Topics in General Agriculture 3 Cr. Hrs

Selected topics of current interest in General Agriculture. Prerequisite: Written consent of Director of the School of Agriculture. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

DAGR 0760 Agricultural Law 3 Cr. Hrs

Discussion of the complexity of the agriculture industry and the laws affecting it. The course will illustrate laws critical for effective planning and the making of sound management decisions respecting the farm operations and agribusinesses. Topics include the Manitoba and Canadian legal systems, major laws affecting agriculture, and resolution of issues in Canadian agriculture. Offered in 2005-2006 and alternate years thereafter.

DAGR 0830 Agriculture Cooperative Education Work Term 2 Cr. Hrs

Special five-month work assignment in business, industry, government or research for cooperative education students in the diploma program. Requires submission of a written report covering the work completed during the professional assignment.

DAGR 0910 Integrated Sustainable Agri-Food Systems 3 Cr. Hrs

The agri-food system encompasses how food is being produced, processed, transported, marketed and consumed. The three pillars of sustainability (economic, social and environmental) will be used to evaluate and improve agricultural sustainability, and will also be applied to the agri-food system (beyond production). Sustainable solutions are unique to each agricultural situation and require long-term thinking and evidence-based decision-making. Focus will be on the balance between food production practices and protecting the natural resources on which agriculture is reliant. There will be a full-day field trip. This course is restricted to students in Year 2 Agriculture Diploma Program.

DAGR 0920 Current Issues in Agriculture and Food 3 Cr. Hrs

The course will present current day and potential future issues facing Canada's agri-food sector. Students will be required to identify and optimize solutions to these issues, with a focus on the roles and responsibilities of farmers, other food producers and agri-food industry members. The impact of these issues on farms and the agri-food industry now and in the future will be emphasized as will the role farmers can play in policy development in response to these issues. The course includes an opportunity for students to engage with several guest speakers from the agri-food community. There will be two or three full-day field trips. This

course is restricted to students in Year 2 Agriculture Diploma Program. May not be held with the former DAGR 0690.

DAGR 0980 Farm Management Project 1 3 Cr. Hrs

Development of a comprehensive objectives-driven plan that deals with production and financial management. Students will be required to attend interview sessions outside of scheduled classes with an assigned Farm Management Advisor. The Advisor will support students as they apply their management skills and knowledge to a real farm business or a case farm. There will be two full-day field trips. May not be held with the former DAGR 0690. Prerequisites: ABIZ 0470 and DAGR 0490. Pre- or corequisite: ABIZ 0450. Additionally, students must submit a satisfactory set of financial and production records for the farm they will be basing their project on by July 15th in order to enter DAGR 0980.

DAGR 0990 Farm Management Project 2 3 Cr. Hrs

Refinement of a comprehensive objectives-driven plan that deals with production and financial management. Students will be required to attend interview sessions outside of scheduled classes with an assigned Farm Management Advisor. The Advisor will support students as they apply their management skills and knowledge to a real farm business or a case farm. Students will present and defend their plan to a panel composed of academics and industry representatives. May not be held with the former DAGR 0690. Prerequisite: DAGR 0980.

Faculty of Architecture

Dean: Dr. Jonathan Beddoes, Ph.D, P.Eng.

Associate Dean(s): Dr. Karen Wilson Baptist (Academic): Dr. Lisa Landrum (Research)

Program Director: Environmental Design Program Chair: Dr. Karen Wilson Baptist

Campus Address/General Office: 201 Russell Building

Email Address: Undergraduate Program Inquiries: env.design@umanitoba.ca

Graduate Program Inquiries: gradarch@umanitoba.ca

Telephone: (204) 474 6578

Fax: (204) 474 7532

Website: umanitoba.ca/architecture

Academic Staff: Please refer to the Faculty website at

umanitoba.ca/architecture

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SECTION 1: Degree Programs Offered

| Program/Degree | Years to Complete | Total Credit Hours |
|--|-------------------|--------------------|
| Bachelor of Environmental Design | 4 | 129 |
| Bachelor of Environmental Design: Architecture Masters Preparation Option (requires completion of previous degree) | 1 or 2 | 33 or 66 |

1.1 Available Options

The Bachelor of Environmental Design Degree Program requires students to declare a specific Program Option after the second year of studies (ED2) in the Environmental Design Program. Of the approximately 100 students moving into the third year of studies (ED3), admission into the Options will be divided equally. Students will be required to rank their Program Options in order of preference (1st, 2nd, 3rd choice). The selection of students into these Options will be based on the GPA, a Portfolio and Statement of Intent. Students entering the Program should be aware that entry into the Options will be assigned on a competitive basis, and that not all students may be successfully placed in their first choice. Students who have not completed 2nd year studios or who still have more than 1 three credit hour lecture course to complete will not be eligible for admission into the Option years.

Architecture Option

The Architecture Option offers a program of studies that focuses on transforming the lessons of history, technology, culture, the environment, and regional and social aspirations into a program for architecture. Students have the academic freedom, one of the program's highlights, to experiment with ideas and methods as they develop their own personal and critical approaches to architectural design. The sequential design studios and supporting courses cover a wide spectrum of investigations ranging in scale from urban design to individual buildings to their construction details, examining the impact of all of these on the environment.

Interior Environments Option

The Interior Environments Option provides an opportunity to study the design of interior spaces within the context of architecture and to investigate the design of objects within the contexts of the human body and interior spaces. Students enrol in a series of design studios and courses to explore the impact of interior environments on human beings and vice versa. The impact of technology – especially sustainable strategies – on buildings and their inhabitants is also studied.

Landscape + Urbanism Option

The departments of Landscape Architecture and City Planning offer a joint option in Landscape + Urbanism for students who have a broad interest in understanding and shaping human settlement and habitat. Design studios and supporting courses recognize that we live in an increasingly globalized world where issues of natural resource depletion, climate change and the demand for sustainable development are paramount. Design and planning issues are addressed within the social, economic, and political contexts that drive development and of the cultural and ecological forces that create the built environment.

1.2 Available Streams (ED AMP only)

ED AMP students entering either Stream One or Stream Two of the program will enter into the Architecture Option years three (ED AMP 1's) or four (ED AMP 2's) as outlined above.

SECTION 2: Admission Requirements

2.1 Bachelor of Environmental Design (B.Env.D)

To be considered for admission into the Bachelor of Environmental Design Program an applicant must have completed 30 credit hours of university-level coursework with an overall minimum adjusted grade point average of 2.50. All admission requirements, as well as application deadline dates and forms, are included in the applicant information bulletin that is available at the following website: http://umanitoba.ca/faculties/architecture/programs/edesign/ED_admissions.html.

Required Courses

EVDS 1600 Introduction to Environmental Design (3 credit hours) with C+ minimum grade

EVDS 1602 Visual Literacy (3 credit hours) with C+ minimum grade

EVDS 1680 Environmental Technology (3 credit hours) with C+ minimum grade

University Written English Course¹ (3 credit hours) with C minimum grade

University Mathematics Course¹ (3 credit hours) with C minimum grade

Open Electives² (15 credit hours) with C minimum grade

Total Required Credit Hours = 30

Note 1: Students must satisfy the University Written English (W) and Mathematics (M) course at the 1000 level or higher.

Note 2: EVDS 1660 History of Culture, Ideas and Environment 1 and EVDS 1670 History of Culture, Ideas and the Environment 2 must be completed as part of the degree program prior to, or after, admission to the ED program, with a C+ minimum grade. Students should be aware that EVDS 1670 is a prerequisite for EVDS 2600 Tectonic Precedent.

2.2 Bachelor of Environmental Design - Architecture Master Preparation Option(ED AMP)

Enrollment in the Environmental Design Program Master Preparation Option is competitive and limited. Students will be admitted on the basis of an annual selection process. Applicants satisfying the minimum academic requirements are eligible for consideration at the discretion of the Department of Architecture Admissions Selection Committee. For a detailed list of the admission requirements please see <http://umanitoba.ca/faculties/architecture/programs/edesign/EDAMP.html>.

SECTION 3: Faculty Academic Regulations

3.1 Undergraduate Scholastic Standards

A Grade Point Average (GPA) of 2.00 is required as an acceptable standard of performance.

A minimum grade of "C" is required to pass all courses offered by the Environmental Design Program and by the Departments within the Faculty. All courses offered by the Environmental Design Program stipulate a grade of "C" in the prerequisite course(s).

To be eligible for the degree of Bachelor of Environmental Design a student is required to complete a minimum of two full academic years of studies in the Environmental Design Program including Years 3 and 4.

3.2 Supplementary Regulations

SUPPLEMENTARY PROGRAM REQUIREMENTS, STRUCTURE OF PROGRAM, DEGREE PERFORMANCE REGULATIONS AND POLICY

PREAMBLE

Each faculty and school has its own supplementary regulations and requirements. These are published in the faculty or school chapters of the Academic Calendar. Some faculties and schools also have additional regulations and requirements governing their programs - these are available from the faculty or school. It is the responsibility of each student to be familiar with the academic regulations and requirements of the University of Manitoba in general and of the specific academic regulations and requirements of their faculty or school of registration. Accordingly, students are asked to seek the advice of advisors in faculty and school general offices whenever there is any question concerning how specific regulations apply to their situations. Please see the University of Manitoba Academic Calendar, [General Academic Regulations](#)

I. ADMISSIONS and STRUCTURE OF THE PROGRAM

To be considered for admission into the Bachelor of Environmental Design Program all applicants must have completed the required 30 credit hours of university level course work with an overall minimum adjusted grade point average of 2.50. Successful applicants are likely to require an Adjusted Grade Point Average well in excess of this minimum because admission is academically competitive based on scholastic achievement. Please see the current Environmental Design Application Information Bulletin at http://umanitoba.ca/student/admissions/media/env_design_bulletin.pdf or specific entry requirements. The application deadline is March 1 of each year.

The Bachelor of Environmental Design Degree is a four-year program of studies consisting of one qualifying year plus one year of common 'Foundation Studies' (-ED2) followed by two years of pre-professional 'Intermediate Studies' (ED3 and ED4). The third and fourth years are referred to as the 'Option Years' and include Architecture, Interior Environments, and Landscape + Urbanism. The Bachelor of Environmental Design Degree Program requires students to declare a specific program Option after the second year of studies (ED2) in the Environmental Design Program.

Of the approximately 100 students moving into the third year of studies (ED3), admission into these Options will be divided equally. Students will be required to rank their Program Options in order of preference (1st, 2nd, 3rd choice). The selection of students into these Options will be based on GPA, Portfolio and a Statement of Intent.

Students entering the program should be aware that entry into the Options will be assigned on a competitive basis, and that not all students will be placed in their first Option choice. Students who have not successfully completed studios or more than one three-credit-hour lecture course from second year will not be eligible for admission into the Option Years.

Complete 30 credit hours of university study.

Apply to Environmental Design:

Environmental Design Year 2

Option Selection:

ED3 Arch Option or ED3 IE Option or ED3 L + U Option

ED4 Arch Option or ED4 IE Option or ED4 L + U Option

II. ENVIRONMENTAL DESIGN PROGRAM: ARCHITECTURE MASTER PREPARATION OPTION (ED AMP)

The Faculty of Architecture offers a Bachelor of Environmental Design Architecture Master Preparation Option (ED AMP) for students who have a recognized first degree in either a non-design or a design-related field of study and who have an interest in pursuing the graduate degree in Architecture. These students may apply and be admitted through the Environmental Design Program where they will be enrolled in the Environmental Design Program: Architecture Master Preparation Option. There are two different streams available:

Stream One: ED Architecture Master Preparation Option 1 (ED AMP 1 – two years of study). For those who have no formal design education and have a recognized undergraduate first degree (or are currently enrolled in the final year of a degree program). In order to graduate students must complete the ED 3 and ED4 Architecture Master Preparation Option (total of 66 credit hours). Upon successful completion of all the requirements for this two-year program, students will be eligible to receive a Bachelor of Environmental Design degree.

Stream Two: ED Architecture Master Preparation Option 2 (ED AMP 2 – one year of study). For those who already have an undergraduate design degree (or are currently enrolled in the final year of a design degree program) in an allied design field such as Interior Design or Landscape Architecture, and wish to pursue studies in a graduate degree in Architecture. These students will be considered on a case-by-case basis for placement into the fourth year of Environmental Design Architecture Option, but will be ineligible to receive the Bachelor of Environmental Design degree.

NOTE: Upon successful completion of the undergraduate ED Architecture Master Preparation Option (ED AMP 1 and ED AMP 2), students who wish to continue into the Master of Architecture Program must officially apply for graduate admission. Evaluation is based on the student's progress in either the one or two-year ED Architecture Master Preparation Option, as evidenced in a portfolio submission, GPA and a Faculty of Graduate Studies application.

For further information on the ED AMP Option, please refer to the following website:

http://www.umanitoba.ca/student/admissions/media/ampp_bulletin.pdf

III. DEGREE PERFORMANCE REGULATIONS

1. Qualifications for Graduation

To be eligible for the degree of Bachelor of Environmental Design, a student must successfully complete 129 credit hours of coursework with a passing grade in each course and have attained a Degree Grade Point Average (DGPA) of at least 2.0 (C).

Students who do not achieve the minimum passing grade for each course or do not meet the 2.0 (C) Term Grade Point Average (TGPA) requirement will be permitted only one more attempt to achieve the required scholastic performance levels.

Students who fail to achieve the minimum passing grade and/or the minimum TGPA will be placed on Academic Suspension. Students who fail to achieve the minimum passing grade on the second attempt will be required to withdraw from the Environmental Design Program (see Section V below).

2. Dean's Honour List

To qualify for the Dean's Honour List a student must register for and successfully complete at least 80 per cent of a full year's coursework and

attain a minimum TGPA of 4.0. The notation "Dean's Honour List" will be inscribed on the Student History.

3. University Gold Medal

The University Gold Medal in Environmental Design will be awarded to the graduating student who:

- has achieved the highest grade point average (minimum 3.75) in courses constituting the last two years of an eligible program (and including no transfer courses in the applicable years); and
- has completed at least 80 per cent of the normal full course load in each of the last two years of the eligible program

In the event of a tie, preference will be given to the student with the higher DPGA in the final year.

IV. RESIDENCY REQUIREMENT

Students must normally complete the last 66 credit hours of the Program at the University of Manitoba. Completion of any of the 66 credit hours through participation in an International Exchange must be approved in advance by the Department Head and Program Chair.

Any student considering time away from the Program must first meet with the Student Advisor and/or Program Chair to discuss their intentions.

Students who have been admitted to the Program and who have not been in attendance for at least one term but less than two years must inform the Student Advisor in writing before June 1st of their intention to return to the Program. Requests for a leave of absence will be reviewed by the Environmental Design Program Chair prior to approval.

Students who have been absent from the Program for two (2) years or more must apply for readmission through the online application process (application deadline March 1st), and must inform the Student Advisor before June 1st. Their acceptance back into the Program will be subject to quota restrictions and compliance with existing Program requirements.

Coursework completed at a post-secondary institution ten (10) years prior to registration will not be considered for transfer credit.

V. PROBATION AND ACADEMIC SUSPENSION

Failure to meet the minimum TGPA of 2.0 (C) will result in a student being placed on probation. A student with a term grade point average (TGPA) of less than 1.5 shall be required to withdraw permanently from the program.

A student's status is determined at the end of the Fall and Winter examination periods.

Students on probation are required to meet with a Student Advisor to discuss their program of studies prior to their next registration. When next assessed, students must exceed the minimum TGPA (2.0) to be removed from probation or they will be placed on academic suspension.

Students placed on academic suspension will be required to withdraw from the Program for a minimum of one (1) academic year. They may be required to complete a remedial program designated by the ED Program Chair. They will normally be permitted to apply for re-entry to the Environmental Design Program after one year has elapsed. Such application should be made in writing before July 1st.

Reinstatement is not automatic, but subject to review by the ED Program Chair.

The purpose of the remedial program is to remove the status of Academic Suspension so that he/she can complete the B.Env.D. degree or pursue career studies in another Faculty or at another university.

VI. GENERAL REGULATIONS AND POLICY

Students should also make themselves familiar with the General Academic Regulations and Policies described in the current Undergraduate Calendar

http://umanitoba.ca/student/resource/student_advocacy/academicintegrity/academic-integrity-policies-and-procedures.html.

1. Attendance

Students must attend and participate in all lectures, laboratories, studios and studio reviews, including final reviews in accordance with the sections assigned on the University of Manitoba website. Students who attend the wrong section or course will receive a grade of F.

Regular attendance is expected of all students in all courses. The ED Program Chair may initiate at the request of an Instructor, procedures to bar a student from attending classes, studios and final examinations and/or from receiving credit where unexcused absences exceed 10 per cent of the scheduled classes. Students so barred will have failed the course.

A medical certificate must be submitted to the General Office if a student is ill and unable to attend class and/or complete work by a specified due date. Late work will only be allowed on medical grounds with a medical certificate. Any absence not supported by a medical certificate will be considered unexcused.

2. Accessibility

The Environmental Design Program is committed to providing and maintaining an accessible learning environment in accordance with the University of Manitoba [Accessibility Policy](#). In order to facilitate the appropriate accommodation of students' disability-related needs, students with documented disabilities requesting accommodations are required to register with [Student Accessibility Services](#).

3. The Grading System

The Environmental Design grading system consists of eight grades:

| Grade | GPA | Range | | Category |
|-------|-----|-------------|----------|--------------|
| A+ | 4.5 | 4.26 – 4.50 | 90 – 100 | Exceptional |
| A | 4 | 3.76 – 4.25 | 80 – 89 | Excellent |
| B+ | 3.5 | 3.26 – 3.75 | 75 – 79 | Very Good |
| B | 3 | 2.76 – 3.25 | 70 – 74 | Good |
| C+ | 2.5 | 2.26 – 2.75 | 65 – 69 | Satisfactory |
| C | 2 | 1.90 – 2.25 | 60 – 64 | Adequate |
| D | 1 | 1.00 – 1.89 | 50 – 59 | Failure |
| F | 0 | | 0 – 49 | Failure |

Note: A minimum grade of C (2.0) is required to pass all courses offered within the Environmental Design Program in the Faculty of Architecture.

4. Grade Points

"Grade Point" refers to a numerical value assigned to a letter grade received in a course.

5. Calculating the Grade Point Average

"Grade Point Average" or "GPA" is the average grade of courses completed at the same Level, which is calculated by dividing the total quality points earned by the number of credit hours attempted. This calculation can be applied to determine the following types of GPA:

- "Cumulative Grade Point Average" or "CGPA" which is the calculated GPA of all courses, institutional and transferred, completed at the same Level;
- "Degree Grade Point Average" or "DGPA" which is the calculated GPA of all courses accepted for credit by the University towards a designated degree; students who repeat a course will receive credit only once – based on the latest grade, not the highest grade;
- "Sessional Grade Point Average" or "SGPA" which is the calculated GPA of all courses completed at the same Level during the Fall and Winter Terms of one academic year; and
- "Term Grade Point Average" or "TGPA" which is the calculated GPA of all courses completed during a single Term at the same Level.

6. Voluntary Withdrawal

"**Voluntary Withdrawal**" or "**VW**" is a registration option that enables students to withdraw from a course or courses without academic penalty. The onus for initiating Voluntary Withdrawal from a course rests solely with a student. Neither a verbal request nor discontinuance from class attendance will suffice. Students who do not follow this procedure will receive a grade of F in the course. The University of Manitoba Policy on Voluntary Withdrawal can be found at [Voluntary Withdrawal](#).

7. Incomplete Term Work

Students who are unable to complete the term's work prescribed in a course must contact the Instructor prior to the end of lectures for consideration (based on medical or compassionate reasons) of an Incomplete grade and a time extension for work completion.

In the event a student is unable to complete the term's work due to medical reasons, a medical certificate (indicating the period of illness or time the student is able to return to classes) must be submitted to the ED Program Student Advisor as soon as reasonably possible.

In no case will the satisfaction of the incomplete course requirements cause a grade to be lowered. However, if a student does not submit/present the outstanding work by the stipulated deadline, his/her opportunity to improve the grade will lapse. All courses that have outstanding course work will be given a letter grade with an "I" to indicate an extension has been granted. If outstanding work is not submitted or a time frame of three months passes, the "I" will automatically be removed and the letter grade will stand as is.

The following maximum time extensions are allowed:

August 1st for courses terminated in April

December 1st for courses terminated in May/August

April 1st for courses terminated in December

All registration and registration revisions must be completed in Aurora by the student through the University of Manitoba website registration before the stipulated deadlines.

8. Repeating a Course

When a student repeats a course or takes an equivalent course or mutually exclusive course (for example, a course that may not be held for credit with the original course), all attempts at that course shall be used in the calculation of the TGPA and CGPA. Students who repeat a course will receive credit only once – **based on the latest grade, not the highest grade**. All other grades for repeat courses will remain on a student's academic record but will be eliminated from Hours Passed, Hours Earned, DGPA hours, DGPA calculation, and will be included in credit hours attempted.

A student may only repeat a required course one time, provided he/she is eligible to proceed and such repetition does not introduce a conflict with the student's lecture, studio, examination schedule and/or space availability.

A failed Elective course may either be repeated or another Elective may be selected.

9. Communication and Record Keeping

For communication and record keeping purposes, students should make every effort to inform the Student Advisor if any part of their records and status have changed, or will change, on a continuous basis.

Students should inform the Student Advisor of any extraneous circumstances that may affect their academic performance.

VII. APPEALS ON MATTERS REGARDING ACADEMIC REGULATIONS

The Faculty of Architecture Rules, Regulations, Student Appeals and Discipline Committee meets from time to time throughout the year to consider appeals from students who request special consideration in respect of rules and regulations governing their progress in the program and qualifications for graduation.

Students who intend to appeal matters concerning Environmental Design Program Rules and Regulations affecting their registration for the next Regular Academic Session must submit a written appeal to the Committee Chair no later than August 1st.

Appeals should be addressed to the Chair of the Rules, Regulations, Student Appeals and Discipline Committee, Office of the Dean, Faculty of Architecture, University of Manitoba, Winnipeg, MB, R3T 2N2 with a copy to the Environmental Design Program Chair.

3.3 Dean's Honour List

Students who achieve a term GPA of 4.0 or better, while registered in 80 per cent of a full course load will be included in the Dean's Honour List for the Faculty of Architecture.

SECTION 4: Program Requirements for Bachelor of Environmental Design and Architecture Masters

4.1 Bachelor of Environmental Design

Course Sequence

| Year 1 | |
|---|---|
| EVDS 1600 Introduction to Environmental Design | 3 |
| EVDS 1602 Visual Literacy and Communication | 3 |
| EVDS 1660 History of Culture, Ideas and Environment 1 | 3 |

| | |
|---|-----------|
| EVDS 1670 History of Culture, Ideas and Environment 2 | 3 |
| EVDS 1680 Environmental Technology | 3 |
| University Written English Course | 3 |
| University Mathematics Course | 3 |
| Open Elective Credits | 9 |
| Total Credit Hours | 30 |
| Please note: The University Written English (W) and Mathematics (M) course requirements and Open Electives must be at the 1000 level or higher. | |
| Year 2 | |
| EVDS 2100 Urban Media Lab (Pre-Fall) | 3 |
| EVDS 2200 Ecology and Design | 3 |
| EVDS 2300 Materials, Structures and Assemblies | 3 |
| EVDS 2400 Visual Media 1 | 3 |
| EVDS 2500 Design Studio 2 | 6 |
| EVDS 2600 Tectonic Precedent | 3 |
| EVDS 2702 Natural and Human Systems | 3 |
| EVDS 2800 Visual Media 2 | 3 |
| EVDS 2900 Design Studio 2 | 6 |
| Total Credit Hours | 33 |
| INTERMEDIATE STUDIES (Option Years 3 and 4) | |
| Year 3: Architecture Option | |
| EVAR 3000 Pre-Modern Architectural History and Theory 1 | 3 |
| EVAR 3002 Pre-Modern Architectural History and Theory 2 | 3 |
| EVAR 3004 Architectural Technology 1- Structural and Sustainable Use of Materials | 3 |
| EVAR 3006 Architectural Technology 2 - Building Construction, Structures, Envelopes | 3 |
| EVAR 3008 Architecture Design Studio 1 | 9 |
| EVAR 3010 Architecture Design Studio 2 | 9 |
| EVAR 3014 Drawing: Freehand & Digital | 3 |
| Total Credit Hours | 33 |
| Year 4: Architecture Option | |
| EVAR 4000 Modern Architectural History and Theory 1 | 3 |
| EVAR 4002 Architectural Technology 3 - Building Systems | 3 |
| EVAR 4004 Architecture Design Studio 3 | 9 |
| EVAR 4006 Modern Architectural History and Theory 2 | 3 |
| EVAR 4008 Architectural Technology 4 - Comprehensive Design Technology Report | 3 |
| EVAR 4010 Architecture Design Studio 4 | 9 |
| Elective | 3 |
| Total Credit Hours | 33 |
| Year 3: Interior Environments Option | |
| EVIE 3002 Interior Design History and Theory 1 | 3 |
| EVIE 3004 Materials, Assemblies and Detailing | 3 |
| EVIE 3006 Interior Design Media | 3 |

| | |
|--|-----------|
| EVIE 3008 Interior Design Studio 3.1 | 6 |
| EVIE 3010 Interior Design Studio 3.2 | 6 |
| EVIE 3012 Interior Light and Colour | 3 |
| EVIE 4006 Design Methods and Processes | 3 |
| EVIE 4008 Digital Media | 3 |
| Elective | 3 |
| Total Credit Hours | 33 |
| Year 4: Interior Environments Option | |
| EVIE 3014 Human Factors and Environmental Experience | 3 |
| EVIE 4000 Interior Design History and Theory 2 | 3 |
| EVIE 4002 Indoor Systems 1 | 3 |
| EVIE 4004 Indoor Systems 2 | 3 |
| EVIE 4010 Interior Design Studio 4.1 | 6 |
| EVIE 4012 Interior Design Studio 4.2 | 6 |
| EVIE 4014 Advanced Interior Design Media | 3 |
| Electives | 6 |
| Total Credit Hours | 33 |
| Please note: All students in 4th Year IE Option must complete 6 credit hours of Elective courses. EVIE 3000 and/or EVIE 3016 can be used towards this requirement. | |
| Year 3: Landscape + Urbanism Option | |
| EVLU 3000 History of Designed Environments | 3 |
| EVLU 3002 Site Planning | 3 |
| EVLU 3004 Ecology + Design 2 | 3 |
| EVLU 3006 Studio 3: Dwelling / Precinct / Everyday Life | 9 |
| EVLU 3008 Studio 4: Networks and Infrastructure | 9 |
| EVLU 3010 Landscape + Urbanism Theory | 3 |
| EVLU 3012 Site Morphology and Grading | 3 |
| Total Credit Hours | 33 |
| Year 4: Landscape + Urbanism Option | |
| EVLU 4000 Philosophy, Ethics and Aesthetics | 3 |
| EVLU 4002 Construction Materials* (Alternate 1) | 3 |
| EVLU 4004 Inquiry by Design* (Alternate 2) | 3 |
| EVLU 4006 Special Topics in Community Design* (Alternate 3) | 3 |
| EVLU 4008 Plants, Ecosystems and Design* (Alternate 4) | 3 |
| EVLU 4010 Community Design Process and Method* | 3 |
| EVLU 4012 Studio 5: Possible Urbanism(s) | 9 |
| EVLU 4014 Studio 6: Emergent Futures | 9 |
| EVLU 4016 History of Landscape + Urbanism | 3 |
| EVLU 4018 Principles of Urban Design | 3 |
| Total Credit Hours | 33 |
| Please note: Students must complete at least 2 of the courses designated with an asterisk. | |
| Students progressing to the Master of Landscape Architecture at the University of Manitoba are required to take courses EVLU 4002 | |

| | |
|---|--|
| Construction Materials and EVLU 4008 Plants, Ecosystems and Design. | |
|---|--|

Electives

University credit courses may be taken as electives. They may come from the Faculties of Arts, Science, Engineering, Fine Arts, Management, Agricultural and Food Sciences among others, or with the permission of the Environmental Design Program Chair in special circumstances.

Supplies and Expenses

The Faculty of Architecture has an Information Technology Program fee for all enrolling students. A portion of those fees contributes to a Technology Endowment Fund managed by a student-run committee. Remaining funds will be expended on current technology items of direct benefit to students. Further details regarding fees may be found at: <http://umanitoba.ca/student/records/fees/986.html#Arch>

In addition to tuition, student fees, and related expenses, the estimated cost of materials, equipment, and textbooks for students in Environmental Design is approximately \$7,000 per year.

The Environmental Design Program offers Field Studies in Years 2, 3 and 4 either as stand alone courses or in conjunction with a design studio offering. These may be regional, national or international. All related costs are to be borne by the students. A valid passport is required. A visa may also be required.

Please refer to the Environmental Design website to note laptop computer and software specifications.

The Environmental Design Program has an Urban Media Lab fee. The Urban Media Lab course is offered at the start of Year 2 and is hosted off campus in advance of the regular academic session in late August.

For information about professional studies leading to the degrees of Master of Architecture, Master of City Planning, Master of Interior Design and Master of Landscape Architecture, please refer to the [University of Manitoba's Graduate Calendar](#).

4.2 Bachelor of Environmental Design Architecture Master Preparation Option (AMP 1 AND AMP 2)

The Faculty of Architecture offers a Bachelor of Environmental Design Architecture Master Preparation Option (ED AMP) for students who have a recognized first degree in either a non-design or a design-related field of study and who have an interest in pursuing the graduate degree in Architecture. These students may apply and be admitted through the Environmental Design Program where they will be enrolled in the Environmental Design Program: Architecture Master Preparation Option. There are two different streams available:

Stream One: ED Architecture Master Preparation Option 1 (ED AMP 1 - two years of study). For those who have no formal design education and have a recognized undergraduate first degree (or are currently enrolled in the final year of a degree program). In order to graduate, students must complete the ED3 and ED4 Architecture Master Preparation Option (total of 66 credit hours). Upon successful completion of all the requirements for this two-year program, students will be eligible to receive a Bachelor of Environmental Design degree.

Stream Two: ED Architecture Master Preparation Option 2 (ED AMP 2 - one year of study). For those who already have an undergraduate design degree (or are currently enrolled in the final year of a design degree program) in an allied design field such as Interior Design or Landscape Architecture, and wish to pursue studies in a graduate degree in Architecture. These students will be considered on a case-by-case basis for

placement into the fourth year of Environmental Design Architecture Option, but will be ineligible to receive the Bachelor of Environmental Design degree.

NOTE: Upon successful completion of the undergraduate ED Architecture Master Preparation Option (ED AMP 1 and ED AMP 2), students who wish to continue into the Master of Architecture Program must officially apply for graduate admission. Evaluation is based on the student's progress in either the one or two-year ED Architecture Master Preparation Option, as evidenced in a portfolio submission, GPA and a Faculty of Graduate Studies application.

Students seeking admission into Year 3 of the Program on the basis of work completed elsewhere must have the equivalent coursework and scholastic achievement levels to be admitted. A portfolio review will be part of the admission process along with a statement of intent (300 word maximum). Equivalencies to ED course requirements will be determined by individual instructors of relevant courses and approved by the Environmental Design Program Chair.

For further information on the ED AMP Option, please refer to the following website:

http://www.umanitoba.ca/student/admissions/media/ampp_bulletin.pdf

Course Sequence

| | |
|---|-----------|
| PRE TERM | |
| EVAR 3012 Arch Tech Prep (pre term block course) | 3 |
| Year 3 | |
| EVAR 3000 Pre-Modern Architectural History and Theory 1 | 3 |
| EVAR 3002 Pre-Modern Architectural History and Theory 2 | 3 |
| EVAR 3004 Architectural Technology 1 - Structural and Sustainable use of Materials | 3 |
| EVAR 3006 Architectural Technology 2 - Building Construction, Structures, and Envelopes | 3 |
| EVAR 3008 Architecture Design Studio 1 | 9 |
| EVAR 3010 Architecture Design Studio 2 | 9 |
| EVAR 3014 Drawing: Freehand & Digital | 3 |
| Total Credit Hours | 33 |
| Year 4 | |
| EVAR 4000 Modern Architectural History and Theory 1 | 3 |
| EVAR 4002 Architectural Technology 3 - Building Systems | 3 |
| EVAR 4004 Architecture Design Studio 3 | 9 |
| EVAR 4006 Modern Architectural History and Theory 2 | 3 |
| EVAR 4008 Architectural Technology 4 - Comprehensive Technology Report | 3 |
| EVAR 4010 Architecture Design Studio 4 | 9 |
| Elective | 3 |
| Total Credit Hours | 33 |

Electives

University credit courses may be taken as electives. They may come from the Faculties of Arts, Science, Engineering, Fine Arts, Management, Agricultural and Food Sciences among others, or with the permission of the Department of Architecture in special circumstances.

Supplies and Expenses

The Faculty of Architecture has an Information Technology Program fee for all enrolling students. A portion of those fees contributes to a Technology Endowment Fund managed by a student-run committee. Remaining funds will be expended on current technology items of direct benefit to students. Further details regarding fees may be found at: <http://umanitoba.ca/student/records/fees/986.html#Arch>

In addition to tuition, student fees, and related expenses, the estimated cost of materials, equipment, and textbooks for students in Environmental Design After Degree is approximately \$7,000 per year.

The Environmental Design Program offers Field Studies in Years 2, 3 and 4 either as stand alone courses or in conjunction with a design studio offering. These may be regional, national or international. All related costs are to be borne by the students. A valid passport is required. A visa may also be required.

Please refer to the Faculty of Architecture website for camera, laptop computer, and software specifications.

The Environmental Design Program has an Urban Media Lab fee. The Urban Media Lab course is offered at the start of Year 2 and is hosted off campus in advance of the regular academic session in late August.

For information about professional studies leading to the degrees of Master of Architecture, Master of City Planning, Master of Interior Design and Master of Landscape Architecture, please refer to the University of Manitoba's Graduate Calendar.

SECTION 5: Program Requirements for Environmental Design, Cooperative Education Integrated Work Program (Coop/1)

Program Coordinator: Corrine Klekta
Campus Address/General Office: Room 212 J.A. Russell Building
Email Address: Corrine.klekta@umanitoba.ca
Telephone: 204 474 9432
Fax: 204 474 7532
Academic Liaison: Dr. Lisa Landrum

Program Description

The Faculty of Architecture offers a Cooperative Education/Integrated Work Program (Coop/I) option designed to complement and enrich our academic programs with work experience. The work term/s provide students with practical experience, assistance in financing their education, and guidance for future career specialization.

A student in good academic standing, currently enrolled in the Faculty of Architecture who will have successfully completed 85 credit hours towards a university degree prior to the start of their work placement, may apply to participate in the Coop/I option. The Coop/I program is open to students registered in the Environmental Design Architecture Masters Preparation program. Acceptance to the program will be based on a statement of interest, résumé, portfolio and interview with the Coop/I Program Coordinator and Academic Liaison. Acceptance will be confirmed in writing. Progress of all students through Coop/I option is dependent upon the student obtaining a job placement.

Upon securing a placement, Faculty of Architecture students enroll in the course EVDS 3800 Coop/I Term 1 (and subsequently, EVDS 3900, 4800 and 4900) for the specific work term of employment.

Students participating in the Coop/I option must complete all the degree requirements for their program of study as outlined in the Academic Course Calendar. Depending on the term and length of a Coop/I job placement, timetables may need to be altered to satisfy course/studio prerequisite requirements. This may lengthen the time to program completion. Students should consult with the Coop/I Coordinator, Student Advisor, and Program Head prior to accepting a job placement. The Academic Liaison (ADR) and/or relevant option head will oversee curricular implications.

Students on probation or academic suspension will either be removed from Coop/I option or have their acceptance deferred until they have completed two consecutive terms with an Academic Standing of "Satisfactory". Students on probation are required to meet with a Student Advisor to discuss their program of studies prior to their next registration and when next assessed, must exceed the minimum TGPA (2.0).

Written reports must be completed at the end of each work term. Each successfully completed work term and its corresponding work term report receives a Pass/Fail grade and is rated at one credit hour. Students who successfully complete at least two work terms and the required work term reports will have the Coop/I Option acknowledged on their graduation parchment.

For more information regarding the Cooperative Education/Integrated Work Program option in the Faculty of Architecture see:

http://umanitoba.ca/faculties/architecture/programs/cooperative_education.html

SECTION 6: Environmental Design Course Descriptions-1000 Level

EVDS 1600 Introduction to Environmental Design Cr. Hrs. 3

An introduction to the philosophies, theories, practices, processes and methods that collectively compose the discipline of Environmental Design. The focus will be on the social, environmental, and technological issues that shape the built environment and on an examination of the challenges and roles facing environmental designers in the contemporary world.

EVDS 1602 Visual Literacy Cr. Hrs. 3

This course examines the contemporary visual and spatial environment, its critical historical influences and emerging cultural issues. The structure of image and form, the foundations of spatial and visual knowledge and the importance of materiality as they pertain to Environmental Design will be advanced as well as disciplinary appropriate methods of communication.

EVDS 1660 History of Culture, Ideas and Environment 1 Cr. Hrs. 3

Historical survey of key works from the foundations of civilization to the Enlightenment, including interdisciplinary perspectives in art, architecture, interior design, landscape architecture and urban planning considered in the physical, socio-economic, political, artistic and cultural contexts. May not be held with FAAH 1030.

EVDS 1670 History of Culture, Ideas and Environment 2 Cr. Hrs. 3

A historical survey of western movements in art, architecture, interior design, landscape architecture and urban planning considered within the physical, socio-economic, political, artistic and cultural context. An introduction to the historical influence of the art, design and culture of non-western traditions will be included. Emphasis is on works created after the Enlightenment. May not be held with FAAH 1040. Prerequisite: EVDS 1660.

EVDS 1680 Environmental Technology Cr. Hrs. 3

An examination of the scientific principles embodied in the natural laws which govern the science and technology of building, landscape and environmental design in the context of sustainable development. Factors of climate, geology and natural resource systems and their effects upon the built environment at a range of scales are introduced.

SECTION 6: Environmental Design Course Descriptions-2000 Level

EVDS 2100 Urban Media Lab Cr. Hrs. 3

An introduction to visual methods of representation and related media including drawing, photography and video. The intention is to critically engage the urban and suburban contexts as a laboratory for investigating cultural values, aesthetic issues, design principles, and representational techniques, 'prerequisite' to undertaking design studio work. Course evaluated on a pass/fail basis.

EVDS 2200 Ecology and Design Cr. Hrs. 3

An examination of principles of Ecology and Design works in which these tenets are considered, engaged, and/or demonstrated. Topics fundamental to the science of Ecology will structure the course content. Emphasis will be placed on understanding the forces and systems working within and between natural, social and human environments. Prerequisite: EVDS 2702.

EVDS 2300 Materials, Structures and Assemblies Cr. Hrs. 3

This course provides an introduction to applied statics, construction materials and construction system assemblies for landscape, building, and interior constructions. Construction material properties and applications, including impacts on resource depletion and on sustainable building practices will be introduced along with basic strategies and methods to analyze and calculate forces in simple structures. Prerequisite: EVDS 1680 (C+).

EVDS 2400 Visual Media 1 Cr. Hrs. 3

An introduction to technical and free-hand drawing processes and techniques, and in various media - to develop, to express, and to communicate design intentions. The focus will be directed to abstract and concrete methods of representation. Emphasis will be placed on the integral relationship between thinking, drawing, and making in relation to critically observing the world at large, and in relation to design studio work. Prerequisite: EVDS 1602 (C+). Corequisite: EVDS 2500.

EVDS 2500 Design Studio 1 Cr. Hrs. 6

Introduction to the elements and principles of visual and spatial design, design process and techniques, requisite methods of representation and communication, and design intentions. Studio work will explore different ways of space and form-making, beginning at the site of the body, in both abstract and environmental contexts. Prerequisite: EVDS 1600 (C+). Corequisite: EVDS 2400.

EVDS 2600 Tectonic Precedent Cr. Hrs. 3

An examination of seminal built works of environmental design, at a range of scales, from the 19th and 20th centuries, with an emphasis on examples that are representative of diverse positions of key issues in contemporary design practice. Methodologically, this course endeavours to critically evaluate the relationships between perception, intention, and making through the exploration of the material and tectonic nature of the work(s). Prerequisite: EVDS 1670 (C+).

EVDS 2690 Design Since 1800 Cr. Hrs. 3

An examination of key architectural treatises of the 19th and 20th centuries that are representative of the predominant ideals of their time and the

influence they have had in the construction of the built environment. Prerequisite: EVDS 1670.

EVDS 2702 Natural and Human Systems Cr. Hrs. 3

An application of the scientific principles embodied in the natural laws which govern environmental design. Aspects of the bio-physical factors, energy, human physiology and perception, comfort, and resource management are reviewed in the context of sustainable planning and design practices. Prerequisite: EVDS 1680 (C+).

EVDS 2800 Visual Media 2 Cr. Hrs. 3

This course bridges technical and freehand drawing introduced in Visual Media 1, with computer/digital media. This course advances contemporary digital media in relation to emerging modes of 2, 3, and 4 dimensional modes of representation, in the context of design studio work, and in relation to graphic standards associated with professional design practice. Prerequisite: EVDS 2400. Corequisite: EVDS 2900.

EVDS 2900 Design Studio 2 Cr. Hrs. 6

An exploration of the fundamental relationships between space, form and order in the context of the built environment, from body to place. Pedagogical emphasis will be directed towards design process, cultural intentions, and environmental accountability. Prerequisite: EVDS 2500. Corequisite: EVDS 2800.

SECTION 6: Environmental Design Course Descriptions-3000 Level

EVDS 3250 Advanced Computing in Environmental Design Cr. Hrs. 3

Advanced Computing in Environmental Design builds upon skills obtained in the introductory course. The advanced course provides an opportunity for students to explore detailed applications of computational technologies in design & planning. Prerequisite: EVDS 2800 or EVDS 2650.

EVDS 3710 Special Topics Cr. Hrs. 3

Independent study related to environmental design. Content may vary according to the interest of the community, students, profession, and the faculty. Written consent of the instructor(s) and program coordinator required.

EVDS 3740 Introduction to AutoCad in Design Cr. Hrs. 3

The course will familiarize the student with the AutoCad program. The course content begins at an introductory level and will progress to a level which will prepare the student for work within a professional office. The course will explore the use of AutoCad for the creation of presentation drawings as well as working drawings. Prerequisite: EVDS 2800 or ARCH 6370 or written permission of Instructor.

EVDS 3800 Cooperative Education/Integrated Work Term 1 Cr. Hrs. 1

Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. Course evaluated on a pass/fail basis.

EVDS 3900 Cooperative Education/Integrated Work Term 2 Cr. Hrs. 1

Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. Prerequisite: EVDS 3800. Course evaluated on a pass/fail basis.

SECTION 6: Environmental Design Course Descriptions-4000 Level

EVDS 4800 Cooperative Education/Integrated Work Term 3 Cr. Hrs. 1

Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. Prerequisite: EVDS 3900. Course evaluated on a pass/fail basis.

EVDS 4900 Cooperative Education/Integrated Work Term 4 Cr. Hrs. 1

Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. Prerequisite: EVDS 4800. Course evaluated on a pass/fail basis.

SECTION 6: Environmental Design Architecture Course Descriptions-3000 Level

EVAR 3000 Pre-Modern Architectural History and Theory I Cr. Hrs. 3

Provides a historical and theoretical understanding of early Greek, Roman, Gothic and non-western architectural topics and their influence. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with the former EVDS 2690, EVDS 2610, ARCH 6320 or ARCH 6420.

EVAR 3002 Pre-Modern Architectural History and Theory II Cr. Hrs. 3

Provides a historical and theoretical understanding of Gothic and Renaissance architectural topics and their influence, up to the work of Claude Perrault. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with EVDS 2620 or ARCH 6340.

EVAR 3004 ARCH TECH 1 Cr. Hrs. 3

Construction materials and structural theory in the analysis and design of simple wood-frame, masonry and light steel construction; fundamental passive energy systems and design strategies for material and energy reduction. May not be held for credit with EVDS 1690 or ARCH 6480.

EVAR 3006 Architectural Technology 2-Building Construction, Structures & Envelopes Cr. Hrs. 3

Architectural, environmental and technical aspects of construction focusing on low-rise and medium sized wood, steel and masonry construction including issues of material production/manufacturing, soils, foundation, envelope systems, basic mechanical systems and their integration and acoustic concerns. May not be held for credit with the former EVDS 2670, EVDS 2700, ARCH 6520 or ARCH 6530

EVAR 3008 Architecture Design Studio 1 Cr. Hrs. 9

An architectural study of the human condition in relation to the natural and built environment through design oriented research exploration, analysis, evaluation and interpretation of a selected subject of inquiry. Various ways of seeing and making are applied as tools for critical thinking to align content with modes of representation. May not be held for credit with former EVDS 2630 or ARCH 6380.

EVAR 3010 Architecture Design Studio 2 Cr. Hrs. 9

Building upon first term explorations, architectural propositions are developed that seek to clarify relations between human inhabitation and the physical environment in a regional context. Design principles influenced by programmatic, theoretical, historical, technological material and environmental criteria are examined. Prerequisite: EVAR 3008. May not be held for credit with former EVDS 2640 or ARCH 6390.

EVAR 3012 Architecture Technology Preparation: Structural Concepts Cr. Hrs. 3

A preparatory block course introducing the fundamentals of structural concepts in architecture that prepares students for the foundation technology courses in architecture. May not be held for credit with EVDS 2300 (or former EVDS 1690), EVDS 1700 or ARCH 6480.

EVAR 3014 Drawing: Freehand/Digital Cr. Hrs. 3

An introduction to drawing skills that allows students to become articulate in proposing and studying architecture through drawing. The course covers a range of media. May not be held for credit with the former ARCH 6532 or ARCH 6370

SECTION 6: Environmental Design Architecture Course Descriptions-4000 Level

EVAR 4000 Modern Architectural History and Theory I Cr. Hrs. 3

Provides a historical and theoretical understanding of the origins of modernity in architecture. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with former EVAR 3700, EVAR 3470, ARCH 6460 or ARCH 6450.

EVAR 4002 Architectural Technology 3-Building Systems Cr. Hrs. 3

Integrated building systems focusing on multi-story steel and concrete construction including: passive and active heating, cooling, and ventilation methods, strategies and designs, electrical, water, communication, security, fire protection, and vertical transportation systems; and building code constraints. May not be held for credit with the former EVAR 3560, EVAR 3570, ARCH 6500 or ARCH 6510.

EVAR 4004 Architecture Design Studio 3 Cr. Hrs. 9

This studio focuses on the broader cultural implications of social interaction and the collective inhabitation of the built and natural environments. Architecture design explorations are influenced by a thorough examination

of programmatic, theoretical, historical, technological, material and environmental criteria. May not be held for credit with the former EVAR 3680 or ARCH 6400

EVAR 4006 Modern Architectural History and Theory II Cr. Hrs. 3

Provides an historical and theoretical understanding of 20th century topics in architecture (western and non-western). Content is explored using primary texts where possible, and through critical analysis of selected topics, May not be held with the former EVAR 3330, EVAR 3480, ARCH 6440 or ARCH 6470.

EVAR 4008 Arch Tech 4: Comprehensive Design Technology Report Cr. Hrs. 3

A technical knowledge project-based course integrating with Arch Studio 4. Comprehensive technology issues include: site; material; energy; structures; construction; sustainability; environmental factors; building code; life safety. Student's work will include analysis, technical drawings and calculations. Corequisite: EVAR 4010 Arch Studio 4

EVAR 4010 Architecture Design Studio 4 Cr. Hrs. 9

The previous terms investigations are further developed and synthesized into a comprehensively designed environment. Architectural propositions seek to clarify specific relations between details and the overall design, through the integration of complex social, cultural, programmatic, theoretical, historical, technological, material and environmental principles, systems and criteria. Prerequisite: EVAR 4004 Architecture Design Studio 3. May not be held with the former EVAR 3690 or ARCH 6410. Corequisite: EVAR 4008 Arch Tech 4.

SECTION 6: Environmental Design Interior Environment Course Descriptions-3000 Level

EVIE 3000 Field Studies Cr. Hrs. 3

This course introduces students to the field of Interior Design through firsthand experience and study of innovative and significant examples of historic and contemporary work from interior design and related fields, in a major design center. The course consists of lectures and a field trip. Location may vary from year to year.

EVIE 3002 Interior Design History and Theory 1 Cr. Hrs. 3

Examination of concepts, theories and writings related to the development of Interior Design as a discipline, to Modernism. Not to be held for credit with the former EVIE 3650.

EVIE 3004 Materials, Assemblies and Detailing Cr. Hrs. 3

Workshop and lecture course on materials, joinery and invention. Review of the principles of framing, bracing, and tension applied to casegoods and furniture; exploration of a variety of soft and hard materials and constructions with an emphasis on sustainability. Not to be held for credit with the former EVIE 3630. Prerequisite: EVDS 2200.

EVIE 3006 Interior Design Media Cr. Hrs. 3

This course develops a student's ability to use drawing as a reflective, problem-solving, designing and visual communication tool; techniques for representing volume, depth and scale, and interfaces with digital photography and media are a focus.

EVIE 3008 Interior Design Studio 3.1 Cr. Hrs. 6

Interior Design studio exploring the body as the primary reference in design, and the semantic and cultural meanings of objects and

architectural elements as mediators of space. Integration of drawing, design and making through projects.

EVIE 3010 Interior Design Studio 3.2 Cr. Hrs. 6

An in-depth investigation, by design, of the nature of interiors including the physical and perceptual, spatial elements and order, human involvement and experience. Exploration and development of spatial solutions using a variety of visual media. Not to be held for credit with the former EVIE 3680.

EVIE 3012 Interior Light and Colour Cr. Hrs. 3

This course examines interior lighting and colour theories and concepts emphasizing human and ecological issues, exploration of spatial design strategies and practices. Not to be held for credit with the former EVIE 3610.

EVIE 3014 Human Factors and Environmental Experience Cr. Hrs. 3

Theoretical and practical issues related to human characteristics, needs, behaviours, and interactions with and within the built interior environment.

EVIE 3016 Topics in Interior Design Cr. Hrs. 3

This course will explore topics at the cutting edge of interior design, examining political, economic, sociological and technological influences on current and future directions in interior design; examination of current research, writing, projects and works from related and diverse fields.

EVIE 3670 Digital Design Media Cr. Hrs. 3

An intermediate level computer applications elective focused on design, representation and communications. Specific course content to be determined by the areas of specialization available to the faculty and department on a yearly basis. Pre-requisite EVDS 2650.

EVIE 3680 Design Studio 5 Cr. Hrs. 6

Arch., C.P.: Studies in the principles, vocabularies and methods of approach to architectural and environmental design. Studio work with specific projects to exercise the analytical, the conceptual and the developmental stages of design. Prerequisite: EVIE 2640.

EVIE 3690 DESIGN STUDIO 6 Cr. Hrs. 6

Studio projects which explore and elaborate systems of meaning in interior place making in the public realm; developing strategies and processes in the design of transitional interior environments. Pre-requisite EVIE 3680.

SECTION 6: Environmental Design Interior Environment Course Descriptions-4000 Level

EVIE 4000 Interior Design History and Theory 2 Cr. Hrs. 3

Examinations of concepts, theories and writings related to the development of interior Design as a discipline and profession, from Modernism to the present day. Prerequisite: EVIE 3002 Interior Design History and Theory 1. Not to be held for credit with the former EVIE 3660.

EVIE 4002 Indoor Systems 1 Cr. Hrs. 3

In-depth, whole building examination of various integrated active and passive environmental controls systems. Focus on working with existing commercial building construction and environmental systems when integrating new interior design and ecological concepts and strategies. Introduction to building performance assessment, construction drawings and schedules. Prerequisite: EVIE 3004 and EVIE 3012. Corequisite: EVIE 4010. Not to be held for credit with the former EVIE 3620.

EVIE 4004 Indoor Systems 2 Cr. Hrs. 3

Broad exploration of a variety of contemporary and innovative building technologies and their integration with interior design. Focus on ecological, new building construction concepts and measure, delivered in the context of integrated design team processes and building systems innovation. Integration and coordination of interior architectural elements with active and passive building systems. Prerequisite: EVIE 4002.

EVIE 4006 Design Methods and Processes Cr. Hrs. 3

Development of knowledge and abilities to collect, analyze, synthesize, interpret, and apply information for the purpose of identifying and solving interior design problems. Not to be held for credit with the former EVIE 3640.

EVIE 4008 Digital Media (AutoCAD) Cr. Hrs. 3

This course focuses on the creation of two-dimensional architectural working drawings in a set of construction documents through the use of advanced features in CAD. Students will learn the concepts of formatting units, text, dimensions, multi-leaders, and layouts, using both non-annotative and annotative scaling techniques. How to use CAD software in a three-dimensional environment to create realistic shapes is also included. May not be held with EVIE 3670.

EVIE 4010 Interior Design Studio 4.1 Cr. Hrs. 6

Projects that explore the interaction between urban context, programmatic requirements and design concepts; integration of building technology and three-dimensional spatial development; development of communication skills and methods. Not to be held with the former EVIE 3690. Prerequisite: EVIE 3010. Corequisite: EVIE 4002.

EVIE 4012 Interior Design Studio 4.2 Cr. Hrs. 6

Design studio with the potential for collaboration, exploring regional and global influences, communication technology, history and temporality in the design of interior environments.

EVIE 4014 Advanced Interior Design Media Cr. Hrs. 3

Focus on the concepts of building information modeling (BIM), parametric design, analysis, and construction documentation using current software. Demonstrates effect of this type of software on presentation and construction documentation through the use of intelligent building components and interdependent views of the building model, including acquisition of statistical and other quantitative information. Pre- or corequisite: EVIE 4008 or consent of instructor.

SECTION 6: Environmental Design, Landscape + Urbanism Course Descriptions-3000 Level

EVLU 3000 History of Designed Environments Cr. Hrs. 3

A critical examination and appraisal of design for dwelling in the context of settlement with emphasis on representation of diverse positions on key issues in design practice. Studies will include consideration of cross cultural precedents and lessons from around the world.

EVLU 3002 Site Planning Cr. Hrs. 3

An investigation of the relationship between natural and cultural processes in the formation of the built environment, including a review of the methods and strategies employed for site programming, inventory, analysis, and development at different scales of intervention.

EVLU 3004 Ecology and Design 2 Cr. Hs. 3

This course will focus on an examination of ecological and technological perspectives on the planning, design and making of the physical environment. This will include a meshing of prediction and advocacy concerning new models of sustainable urbanization, focusing on green technology and infrastructure. Key theories and their application to landscapes at varied scales will be considered along with salient literature, current issues, design precedents and potentials for creative expression and interpretation. Prerequisite EVDS 2200.

EVLU 3006 Studio 3: Dwelling/ Precinct/ Everyday Life Cr. Hrs. 9

A studio/lecture course that examines the notion of dwelling through spatial design with a concentration at the scale of the precinct in the private to semi-private realm focusing on the needs of the individual, on spatial qualities, materials, and site design detail. Theoretical, analytical, conceptual, design, planning and communication skills in landscape + urbanism will be developed and applied in distinct projects. Emphasis is on habitat by design, issues of contested space, ecological design and sustainability. The course may include a field trip (location and cost to be determined on a yearly basis) and will include an obligatory pre-term drawing workshop.

EVLU 3008 Studio 4: Networks and Infrastructure Cr. Hrs. 9

A critical exploration of analytical, conceptual, and developmental aspects of design of the public realm in an experimental studio setting. Social, political, economic, communication, and ecological networks will be studied at the scale of neighborhood and community in the urban realm.

EVLU 3010 Landscape and Urbanism Theory Cr. Hrs. 3

An examination through lectures, readings, seminars and essay assignments, of twentieth and twenty first century philosophical thinking, which has been influential in the theory and practice of landscape architecture, planning and urbanism. Emphasis is on ideas, paradigms, and manifestos. This will include a study of the social, political, religious, cultural, technological, and aesthetic forces behind landscape and urbanism, and the forms that these forces have generated.

EVLU 3012 Site Morphology and Grading Cr. Hrs. 3

An examination of the means and methods used to create landscapes that are shaped by earthwork grading. This will include the study of the forces, principles, and techniques in the modelling and manipulation of the ground plane and the resolution of cultural, ecological and hydrological design considerations implicit in landform design. The course may include a pre-term drafting workshop.

EVLU 3014 Placemaking Fundamentals Cr. Hrs. 3

An introduction to placemaking as an integrated community-based application of landscape and urbanism concepts, based on topical themes, such as the Great Neighbourhood or Edens Lost and Found.

SECTION 6: Environmental Design, Landscape + Urbanism Course Descriptions- 4000 Level

EVLU 4000 Philosophy, Ethics and Aesthetics Cr. Hrs. 3

An examination of philosophical issues and debates regarding ethics and aesthetics, and their influence and potential upon urban design and urban form in the past and present, and to speculate upon the future. Prerequisite: EVLU 3010.

EVLU 4002 Construction Materials Cr. Hrs. 3

A comprehensive introduction to construction materials, methods and processes. Examination of regulatory issues of human safety and

techniques for communicating construction proposals with application to how this information is incorporated into contracts. Field trips to nurseries, quarries, lumber yards, and urban sites where students can observe materials transformed to comply with the requirements of designers. Prerequisite: EVLU 3012.

EVLU 4004 Inquiry by Environmental Design: Researching Space-Place Transformation **Cr. Hrs. 3**

An exploration of the design/research relationship, from a critical and creative thinking perspective will be the core of this course, viewing design and research as linked forms of inquiry into space-place transformation. A focus will be on design/research methods and approaches appropriate to informing and investigating designed environments and community design contexts.

EVLU 4006 Special Topics in Community Design
Cr. Hrs. 3

This course will involve a critical examination of specific topics such as: health and community design; inner city environments; and Canadian community planning and design, and its contexts.

EVLU 4008 Plants, Ecosystems and Design **Cr. Hrs. 3**

The examination of cultural and technical aspects of designing with plants will be explored in an urban context through field investigations, lectures, seminars and assignments. Issues of plant identification, planting design types, their application to contemporary landscape architecture, technical requirements, planting details and ecological integration in the urban environment will be included.

EVLU 4010 Community Design Process and Method: Advanced Placemaking **Cr. Hrs. 3**

An introduction to the integration of perception, intention and placemaking associated with manifestations of community, especially communities of interest, and systems of 'communities of communities'. A consideration of the relationship of space-place transformation and placemaking, via participatory design processes will be examined as part of a critical design and planning process.

EVLU 4012 Studio 5: Possible Urbanism(s) **Cr. Hrs. 9**

A radical exploration of analytical, conceptual, and socio-political aspects of urban public place in an experimental studio setting. An emphasis will be placed on design as mediation between competition demands. The studio incorporates the theory and application of three dimensional simulation technology in design.

EVLU 4014 Studio 6: Emergent Futures **Cr. Hrs. 9**

This studio integrates planning and design from the scale of urban infrastructure through to design detail in the context of landscape and urbanism. An emphasis is placed on the challenges of relevant equitable environmental and social design in the post-industrial world. The studio incorporates the theory and application of CAD and GIS technology in design.

EVLU 4016 History of Landscape and Urbanism **Cr. Hrs. 3**

An historical survey of human made landscapes and urban settlement form, patterns, and types, including major themes and movements. Prerequisite: EVLU 3000.

EVLU 4018 Principles of Urban Design **Cr. Hrs. 3**

This course will examine urban design principles, practices, and applications including political and social systems, and their impacts on the contemporary urban condition.

School of Art

Director: (Acting) Jeffery Taylor
Campus Address/General office: 313 ARTlab, 180 Dafoe Road, Fort Garry Campus
Email Address: fineart@umanitoba.ca
Telephone: (204) 474 9367
Fax: (204) 474 7605
Website: umanitoba.ca/schools/art/
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SECTION 1: Degree and Diploma Programs Offered

| Program/Degree | Years to complete | Total Credit Hours |
|-------------------------|-------------------|--------------------|
| BFA General Studio | 3* | 93 |
| BFA Honours Studio | 4* | 123 |
| Diploma in Art | 4* | 93 |
| BFA Art History General | 3** | 90 |
| BFA Art History Honours | 4** | 120 |

* Admission is by direct entry from high school with portfolio or through University 1 with portfolio.

** This includes 24 to 30 credit hours of study in University 1 before admission to Art History. No portfolio required.

SECTION 2: Admission Requirements

The following is a summary of admission requirements in the School of Art. There is an annual admission quota and admission is competitive.

Entry requirements to the University of Manitoba are listed in the [Admissions](#) chapter of this Calendar.

All admission requirements, as well as application deadline dates and forms, are included in an applicant information bulletin available from the Admissions Office, Enrolment Services, 424 University Centre; this information is also posted on the School of Art's website under "[Undergraduate Admission Information](#)".

An acceptance deposit of \$100 is required and will be credited towards tuition when registration is complete.

2.1 Admission Requirements: Studio Programs

Bachelor of Fine Arts - General Studio Program

Initially, all students wishing to complete a Fine Arts studio degree must be admitted to the Bachelor of Fine Arts General Program. Admission to the Bachelor of Fine Arts General Program is directly from high school or from University 1. Grade 12 Art is recommended. In addition to academic standing in high school or University 1, each applicant must submit a portfolio. Information about the admission and portfolio requirements is available on the School of Art website under "[Undergraduate Admission Information](#)".

Bachelor of Fine Arts - Honours Studio Program

To transfer to the BFA Honours Program, a student must have completed 63 credit hours in the Bachelor of Fine Arts General Program and have a minimum grade point average of 2.5 (C+). Students who wish to transfer to the BFA Honours Program must contact the Student Advisor in the School of Art.

Diploma in Art

Admission to the Diploma in Art requires a high school diploma. Applicants must submit a portfolio and satisfy high school course requirements as described in the application bulletin available from the Admissions Office.

2.2 Admission Requirements: Art History Programs

Bachelor of Fine Arts Art History - General Program

Initially, all students wishing to complete a Fine Arts Art History degree must be admitted to the Bachelor of Fine Arts Art History General Program. No portfolio is required. To be admitted to this program students must first complete 24-30 credit hours in University 1, including 12 credit hours from the list that follows, and achieve a minimum degree GPA of 2.5.

- FAAH 1030 Introduction to Art 1A (3)
- FAAH 1040 Introduction to Art 2A (3)
- English Literature: ENGL 1310 Literary Topics (3); or ENGL 1200 Representative Literature (6); or ENGL 1300 Twentieth Century Literature (6).
- HIST 1200 or PHIL 1200 or 1510 or ASIA 1420 and ASIA 1430 (6)
- FA 1020, Math in Art or MATH 1020 or any other course that meets the University of Manitoba Math requirement (3)
- A Language course-French, German or Italian recommended (6)
- Science or Social Science elective (6)

NOTE: If only 24 credit hours are completed in year one, the student must take an additional 6 credit hours elsewhere in the program.

Bachelor of Fine Arts Art History - Honours Program

To transfer to the Art History Honours program, a student must successfully complete 69 credit hours of study in the Art History General Program, with a degree GPA of 2.5. Students who wish to transfer to the BFA Art History Honours program must contact the Student Advisor in the School of Art.

2.3 Additional Admission Categories

Mature Students: A mature student is eligible to enter the School of Art as a student in the Diploma in Art program. A Diploma student may transfer into the Bachelor of Fine Arts General Studio Program after completing 24 credit hours in the Diploma Program.

Transfer Students: A student seeking transfer to the School of Art from another faculty at the University of Manitoba should contact the School of Art Student Advisor regarding transfer of credit. Academic courses completed at other institutions will be assessed for equivalency only after a student is admitted to the School and paid the deposit. The maximum transferable to the B.F.A. General Program is 30 credit hours. The maximum transferable to the B.F.A. Honours Program is 60 credit hours.

Special Students: A special student is someone who is permitted by the Director of the School of Art to take courses for interest and whose basis of admission is normally possession of a first Fine Arts degree. The student should check with the School of Art Student Advisor first about the application; the student's course choice is dependent on previous courses taken as pre-requisites and space availability in the class.

Audit Students: Art history courses may be audited with the permission of the instructor. Studio courses cannot be audited.

Visiting Students: A visiting student can take courses in the School of Art on a letter of permission from the home university. The specific courses for which permission is granted must be listed in the Letter of Permission.

SECTION 3: Faculty Academic and Other Regulations

The provisions of the chapter [General Academic Regulations and Requirements University Policies](#) apply to all students. In addition, the School of Art has the following regulations and requirements.

Students should be aware that some studio mediums will have health and safety concerns. Faculty and instructors will, for each course that they teach, provide all students with the necessary health and safety instructions for that class.

3.1 Scholastic Standards

General Scholastic Standards for all Degree and Diploma Programs:

A minimum grade of "C" is required in all School of Art courses unless otherwise stated. For courses taken in other faculties, the minimum passing grade is "D".

All students are automatically assessed by Aurora Student at the end of each term, for those students with a term GPA below 2.0, an Academic Warning will appear on their record.

Students who fall below the minimum GPA required in their program of study will be placed on probation at the end of an academic year. Students must clear the probationary status by the end of the next academic year or may be required to withdraw permanently from the School of Art.

Studio Programs:

Students in the BFA General degree must maintain a minimum Degree GPA of 2.0.

Students in the Diploma Program and BFA Honours degree must maintain a minimum Degree GPA of 2.5.

Students in BFA Honours Studio must obtain a minimum grade of B for STDO 4810 (Senior Studio 1) or STDO 4710 (Design Senior Studio 1), STDO 4820 (Senior Studio 2) or STDO 4720 (Design Senior Studio 2), STDO 4910 (Honours Seminar 1) or STDO 4730 (Design Honours Seminar) and STDO 4920 (Honours Seminar 2).

Studio First Class Honours:

Students admitted to the School of Art prior to September 2014 upon completion of the requirements for the BFA Honours Program, a student who achieves a degree GPA of 3.5 in courses applicable to the last two years of the Honours program will be awarded the BFA Honours Degree First Class.

Students admitted to the School of Art in September 2014 and thereafter who graduate with a B.F.A. (Honours) degree will have their degree granted with "First Class Honours" if they obtain a Degree Grade Point Average of 3.75 or better in all courses required for graduation in the program.

Art History Programs:

Students in the BFA Art History General degree must maintain a minimum Degree GPA of 2.0.

Students in the BFA Art History Honours degree must maintain a minimum Degree GPA of 2.5.

Art History First Class Honours:

Students admitted to the School of Art prior to September 2014 upon completion of the requirements for a BFA Art History Honours Program, a student who achieves a degree GPA of 3.75 in courses taken in the last two years will be awarded BFA Art History Honours Degree First Class.

Students admitted to the School of Art in September 2014 and thereafter who graduate with a B.F.A. Art History (Honours) degree will have their degree granted with "First Class Honours" if they obtain a Degree Grade Point Average of 3.75 or better in all courses required for graduation in the program.

Field Trip Policy

The Field Trip is a requirement for all School of Art programs. It is the student's responsibility to acquire all necessary travel documentation at least three months prior to departure. This includes a valid passport, and for international students, a travel visa for the United States. Students under the age of eighteen require written parental or guardian permission.

Students with questions should check with [Canada Border Services Agency](#) to determine the correct documentation required for their citizenship status.

Exemption is granted only on compassionate, medical or legal grounds. In case of accommodation, the student must register for the field trip and pay the fee and an alternate assignment must be completed successfully for credit.

3.2 University Written English and Mathematics Requirement

Students in the BFA Studio and Art History Programs are required to complete, within the first 60 credit hours of their programs, the Written English and Mathematics requirements.

The School of Art accepts all courses from any department with a "W" designation to fulfill the Written English Requirement for BFA Studio General/Honours Students. Students in the studio programs are recommended to take FAAH 2930, Writing About Art to fulfil the "W" Requirement. Art History General and Art History Honours Degree Programs require three credit hours of any English Literature.

The Mathematics requirement for all Studio and Art History Degree Programs in the School of Art can be met through FA 1020 Mathematics in Art, or any other university course designated as satisfying the mathematics requirement.

Students in the Diploma Program do not need to fulfil the Written English or Mathematics requirement.

Refer to the chapter on [General Academic Regulations and Requirements](#) of this *Calendar* for the complete Written English and Mathematics policy.

3.3 Attendance

The School of Art supports and follows the University of Manitoba policies on attendance and withdrawal found in the General Calendar (General Academic Regulations - Attendance and Withdrawal) which states that regular attendance is expected of all students in all courses. Students who fail to attend class but do not withdraw by each term's stated Voluntary Withdrawal deadline will receive a grade of F.

3.4 Voluntary Withdrawal Policy

Refer to the general policy on voluntary withdrawal from programs and courses in the chapter, [General Academic Regulations and Requirements](#).

3.5 Residency Requirement

Studio Programs:

A student in the BFA General Studio degree may take up to 30 credit hours applicable to the program at another institution allowable for transfer. All Senior Studio courses must be taken at this University.

3.6 Dean's Honour List

Students registered in a minimum of 9 credit hours within a single term and who achieve a Term Grade Point Average of 3.3 or better will receive the notation of "Dean's Honour List" on their transcript for that term.

3.7 Academic Dishonesty and Inappropriate Behaviour Policy

The School of Art supports and follows the University of Manitoba policies on academic dishonesty found in the General Calendar (General Academic Regulations, Academic Dishonesty).

The School of Art will follow the University of Manitoba's policies on inappropriate behavior, "Student Discipline Bylaw", found in the General Calendar (University Policies, Student Discipline Bylaw).

SECTION 4: Program and Graduation Requirements

4.1 Bachelor of Fine Arts Studio Programs

The School of Art offers degrees that cover the history, theory, and techniques of art. Students may also take elective courses outside the School of Art. These programs provide a general cultural background as well as the technical education necessary to become an educator, or a professional creative artist in fine art or applied fields. The programs reflect the assumption that in a time of fluctuating cultural values, technical training alone is not sufficient for significant work in any branch of the arts.

The first two years offer basic instruction in the fundamental principles of drawing, design and representation. In the fine arts studio electives in second year, the student selects courses that provide specialization in one or more of the following: ceramics, drawing, graphic design, painting, photography, print media, sculpture and video.

The School of Art offers a General and an Honours Degree Program in Studio. In order to be transferred from the General Degree to the Honours Degree Programs, a student must have completed 63 credit hours and have a minimum grade point average of 2.5 (C). The Student Advisor will be able to transfer the student from General to Honours.

In order to be eligible to do the final fourth year Honours year (the Senior Studio and Honours Seminar courses), students in the Honours Degree must have completed 15 credit hours of Studio courses at the 3000 level and have successfully passed a minimum of 94 credit hours.

The school reserves the right to retain temporarily or permanently any work done by students in fulfilment of course requirements.

| BFA General Degree (93 credit hours) | | |
|--|--|--|
| YEAR 1 (33 credit hours) | YEAR 2 (30 credit hours) | YEAR 3 (30 credit hours) |
| STDO 1210, STDO 1240, STDO 1410, STDO 1510, FA 1990, FAAH 1030, STDO 1250, STDO 1480, STDO 1470, FAAH 1040 3 credit hours - Written English Requirement ^{1,2} 3 credit hours - Mathematics Requirement ^{1,3} | FAAH 2080 15 credit hours in Fine Arts Studio Electives 6 credit hours in Art History Electives 6 credit hours in Academic Electives ⁵ | FAAH 3202, FAAH 3212 15 credit hours in Fine Arts Studio Electives ⁴ 3 credit hours in Art History Electives 6 credit hours in Academic Electives ⁵ |

| BFA Honours Degree (123 credit hours) |
|--|
|--|

| YEAR 1 (33 credit hours) | YEAR 2 (30 credit hours) | YEAR 3 (30 credit hours) | YEAR 4 (30 credit hours) |
|--|--|--|--|
| STDO 1210, STDO 1240, STDO 1410, STDO 1510, FA 1990, FAAH 1030, STDO 1250, STDO 1480, STDO 1470, FAAH 1040 3 credit hours - Written English Requirement ^{1,2} 3 credit hours - Mathematics Requirement ^{1,3} | FAAH 2080 15 credit hours in Fine Arts Studio Electives 6 credit hours in Art History Electives 6 credit hours in Academic Electives ⁵ | FAAH 3202, FAAH 3212 15 credit hours in Fine ⁴ Arts Studio Electives 3 credit hours in Art History Electives 6 credit hours in Academic Electives ⁵ | STDO 4810 or STDO 4710, STDO 4820 or STDO 4720, STDO 4910 or STDO 4730 and STDO 4920 6 credit hours of Fine Arts Studio Electives 6 credit hours of Academic Electives |

Notes:

1. Students are recommended to complete these requirements in the first 60 credit hours of their program.
2. The School of Art offers FAAH 2930 - Writing About Art, to fulfil this requirement. See the General Academic Regulations section of the Undergraduate Calendar for a full list of courses that meet this requirement.
3. The School of Art offers FA 1020 - Mathematics in Art, to fulfil this requirement. See the General Academic Regulations section of the Undergraduate Calendar for a full list of courses that meet this requirement.
4. Students wishing to pursue the BFA Honours program should be advised that a minimum of 15 credit hours of 3000 level studio courses must be taken to be eligible to register for STDO 4810 and STDO 4910 and STDO 4710 and STDO 4720
5. Students are permitted to take any courses to fulfill the Academic Elective requirement. This includes courses taught by the School of Art such as Studio or Art History courses or courses taught by other faculties.

4.2 Diploma in Art Program

The Diploma in Art is a four-year program, essentially technical in nature, which prepares students for careers as practising artists in either the fine or applied fields. Beginning in Fall 2014 a minimum of 93 credit hours are required for the Diploma in Art. Students admitted to Diploma Program in the School of Art prior to September 2014 should contact the School of Art Office for more information.

| Diploma in Art (93 credit hours) | | | |
|---|--|--|---|
| YEAR 1 (27 credit hours) | YEAR 2 (27 credit hours) | YEAR 3 (27 credit hours) | Year 4 (12) |
| STDO 1210, STDO 1240, STDO 1410, | Choose 24 credit hours from the following courses: STDO 2210, STDO 2220, STDO 2230 STDO 2250, STDO | FA 3440 (0 credit hours), Choose 24 credit hours from the | Choose 12 credit hours from the following courses: STDO 4450, |

| | | | |
|---|---|--|--|
| STDO 1510, FA 1990, FAAH 1030, STDO 1250, STDO 1450, STDO 1470, FAAH 1040 | 2400, STDO 2500, STDO 2502, STDO 2510, STDO 2512, STDO 2520, STDO 2522, STDO 2610, STDO 2630, STDO 2640 3 credit hours in Fine Arts Studio Electives | following courses: STDO 3330, STDO 3370, STDO 3420, STDO 3460, STDO 3480, STDO 3830, STDO 3840 3 credit hours in Fine Arts Studio Electives | STDO 4520, STDO 4530, STDO 4550, STDO 4700 |
|---|---|--|--|

4.3 Bachelor of Fine Arts - Art History Programs

The Art History program at the School of Art offers students an opportunity to consider, in a cultural context, both Western and non-Western artistic traditions with an emphasis on the former from the Renaissance to the present. While all courses acknowledge methodological issues, the program also offers courses in art theory and criticism at the second- and third-year levels. Students enrolled in this program broaden their knowledge of art production with studio electives.

Program Requirements:

| BFA Art History General Degree (90 credit hours) | | |
|--|--|---|
| YEAR 1 (30 credit hours) University 1 | YEAR 2 (30 credit hours) | YEAR 3 (30 credit hours) |
| FAAH 1030, FAAH 1040 3 credit hours - English Literature Requirement ^{1,2} 3 credit hours - Mathematics Requirement ^{1,3} 6 credit hours - Academic electives ⁵ 6 credit hours – Social Science or Science Elective ⁷ Choose 6 credit hours from the following courses: HIST 1200, PHIL 1200, ASIA 1420 and ASIA 1430 | FA 1990 9 credit hours of 1000 level studio courses ⁴ 6 credit hours in Academic or Studio Electives ^{4,5} 15 credit hours of 2000 level Art History Electives ⁶ | FAAH 3212 Studio Electives (9 credit hours at the 1000 level or 6 credit hours at the 2000 level) ^{4,6} Art History Electives 15 or 18 credit hours (dependent on the whether 1000 level or 2000 level studio electives have been chosen.) One of the following courses: FAAH 3260 or FAAH 3270 |

BFA Art History Honours Degree (120 credit hours)

| YEAR 1 (30 credit hours) University 1 | YEAR 2 (30 credit hours) | YEAR 3 (30 credit hours) | YEAR 4 (30 credit hours) |
|---|---|---|--|
| FAAH 1030, FAAH 1040 3 credit hours - English Literature Requirement ^{1,2} 3 credit hours - Mathematics Requirement ^{1,3} 6 credit hours - Academic electives 6 credit hours – Social Science or Science Elective ⁷ Choose 6 credit hours from the following courses: HIST 1200, PHIL 1200, ASIA 1420 and ASIA 1430 | FA 1990 9 credit hours of 1000 level studio courses ⁴ 6 credit hours in Academic or Studio Electives ^{4,5} 15 credit hours of 2000 level Art History Electives | FAAH 3212 Studio Electives (9 credit hours at the 1000 level or 6 credit hours at the 2000 level) ^{4,6} Art History Electives 15 or 18 credit hours (dependent on the whether 1000 level or 2000 level studio electives have been chosen.) One of the following courses: FAAH 3260 or FAAH 3270 | 15 credit hours of Art History Electives 3 credits of 4000 level Art History elective 12 Other Academic or Studio Electives (Honours Students wishing to take more than the 18 credit hours of Art History courses listed above may use their Academic Electives to do so.) ⁴ |

NOTES:

1. Students are recommended to complete these requirements in the first 60 credit hours of their program.
2. The School of Art offers FA 1020 - Mathematics in Art, to fulfil this requirement. See the General Academic Regulations section of the Undergraduate Calendar for a full list of courses that meet this requirement.
3. The English Literature Requirement can be fulfilled by any course taught by the English Department under the course code ENGL.
4. Studio Electives can be fulfilled by any course taught by the School of Art under the course code STDO except STDO 1510 – Art Now which is not considered a Studio Elective course for the purposes of this program.
5. Academic Electives can be fulfilled by courses from departments outside of the School of Art.
6. Art History electives can be fulfilled by any 2000 level FAAH course and those courses listed in Section 4.4 below.
7. Most 2000 level studio courses will require completion of a minimum 21 credit hours of 1000 level studio courses, therefore students should be advised that this component is normally fulfilled by 9 credit hours of 1000 level courses.

4.4 Elective Subjects and Academic Requirements

| | | |
|--|---------------------------|---|
| In addition to the Art History courses in the School of Art, the following courses from other faculties fulfil the Art History elective requirement. Not all courses are offered every year. | | |
| CLAS 2670 | Greek Art and Archaeology | 3 |

| | | |
|-----------|---------------------------------------|---|
| CLAS 2680 | Roman Art and Archaeology | 3 |
| RLGN 2570 | Indian Religious Art and Architecture | 3 |
| TXSC 2420 | History of Textiles | 3 |

SECTION 5: Fine Arts Course Descriptions- Fine Arts-1000 Level

FA 1020 Mathematics in Art Cr. Hrs. 3

Specific theory, structuring systems, and mathematical methods and principles used in works of art from various historical periods and contexts will be explored in relation to Euclidean and non-Euclidean geometries. Topics include linear perspective; shapes, patterns, balance and symmetry; ratio, proportion, and harmony; and order, dynamics, and chaos. The course will be one half art and one half mathematics, team-taught by faculty from the School of Art and the Department of Mathematics. This course is also given in the Department of Mathematics as MATH 1020. This is a terminal course and may not be used as a prerequisite for other Mathematics courses. This course cannot be used as part of an Honours, Major, General or Minor program in the mathematical sciences. Not available to any student already holding a grade of "C" or better in any Mathematics courses with the exception of MATH 1010, the former MATH 1190, MATH 1191. Not to be taken concurrently with any other Mathematics course with the exception of MATH 1010, the former MATH 1190, or MATH 1191. Not to be held for credit with MATH 1020. No prerequisite.

FA 1990 First Year Field Trip Cr. Hrs. 0

A field trip conducted by members of faculty. When the field trips are destined for the United States, students requiring a visa should make arrangements to obtain the visa at least 90 days before field trip departure date. A field trip exemption is not grantable except under extreme/extraordinary/visa issues circumstances. The field trip is required for a BFA General Degree and the Diploma program. Students unable to obtain a visa should contact their student advisor.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Art History-1000 Level

FAAH 1030 Introduction to Art 1A Cr. Hrs. 3

A basic study/survey of world art history and theory to the early Renaissance. This course is a prerequisite to further study in art history and theory of art. May not be held with the former FAAH 1050 or EVDS 1660

FAAH 1040 Introduction to Art 2A Cr. Hrs. 3

A basic study/survey of world art history and theory from the Renaissance to the present. May not be held with the former FAAH 1060 or EVDS 1670.

FAAH 1100 Survey of Asian Art Cr. Hrs. 3

An introductory survey of the arts of India, China and Japan from prehistory to the present. May not be held with FAAH 2100.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Art History-2000 Level

FAAH 2060 Medieval to Early Renaissance Art and Architecture Cr. Hrs. 3

An introduction to the study of Medieval art and architecture in Europe, from the very beginnings of a specifically Christian artistic tradition to the beginning of the Renaissance. Prerequisite: FAAH 1030.

FAAH 2070 Renaissance to Baroque Art and Architecture Cr. Hrs. 3

An introduction to the study of Renaissance art and architecture up to the Baroque in the context of the social, political and economic circumstances of this time. Prerequisite: FAAH 1040 or written permission of the instructor.

FAAH 2080 Modern to Contemporary Art Cr. Hrs. 3

A study of the major movements, themes, and media of Western Art from the late 18th century to the present. Prerequisite: FAAH 1040.

FAAH 2090 Art of the North American Aboriginal Peoples Cr. Hrs. 3

A study of the art and artifacts of the indigenous peoples of North America (other than the Inuit). No prerequisite.

FAAH 2110 Women and Art Cr. Hrs. 3

This art history course will examine the aesthetics, ideology and social conditions that have shaped women's relationships to the visual arts and to art history, as artists, as patrons, and as subject matter. No prerequisite.

FAAH 2910 Field Studies in Art History I Cr. Hrs. 3

This off-campus travel course will provide students with the opportunity to study firsthand the art and architecture of a particular city or region in a broad cultural context. Course location may vary from year to year. Offered during Summer Session only. Prerequisite: Written permission of instructor.

FAAH 2920 Field Studies in Art History 2 Cr. Hrs. 3

This off-campus travel course will provide students with the opportunity to study firsthand the art and architecture of a particular city or region in a broad cultural context. Course location may vary from year to year. Offered during Summer Session only. Prerequisite: Written permission of instructor.

FAAH 2930 Writing about Art Cr. Hrs. 3

This course is designed to give students in Art History and Studio programs the opportunity to develop their writing skills with a focus on academic and critical writing on both historical and contemporary art. The practical needs of professional artists will also be covered. Prerequisites: FAAH 1030 or FAAH 1040 or FAAH 1100. May not be held with FA 2620.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Art History-3000 Level

FAAH 3130 Topics in Medieval Art and Architecture Cr. Hrs. 3

Significant topics in Medieval art and architectural history. Topic will vary from year to year. Prerequisite: FAAH 2060 or written permission of the instructor.

FAAH 3140 Topics in Renaissance and Baroque Art and Architecture Cr. Hrs. 3

Significant topics in Renaissance and Baroque art and architectural history. Topic will vary from year to year. Prerequisite: FAAH 2070 or written permission of the instructor.

FAAH 3150 Topics in 18th and 19th Century Art Cr. Hrs. 3

Significant topics in 18th and 19th century art history. Topic will vary from year to year. Prerequisite: FAAH 2070 or FAAH 2080 or written permission of the instructor.

FAAH 3160 Topics in 20th Century Art Cr. Hrs. 3

Significant topics in 20th century art history. Topic will change from year to year. Prerequisite: FAAH 2080 or written permission of the instructor.

FAAH 3180 History of Photography Cr. Hrs. 3

The development of photography from its origins to the present.
Prerequisite: FAAH 1040 or written permission of the instructor.

FAAH 3190 History of Ceramics **Cr. Hrs. 3**

This course will examine the history of ceramics, extending from prehistory in Asia to recent work in Europe, the United States and Canada. No prerequisite, or written permission of instructor, but STDO 2230 (Ceramics 1) will be helpful.

FAAH 3200 Art in New Media **Cr. Hrs. 3**

This course will consider art produced in non-traditional media during the Modern era, i.e. since the 18th century, with emphasis on developments during the 20th century and particularly the last 40 years. Prerequisite: FAAH 1040 or written permission of the instructor.

FAAH 3202 Contemporary Art History **Cr. Hrs. 3**

This course will consider the art history of the past few decades with an emphasis on recent and contemporary developments. Prerequisite: FAAH 2080 or written permission of the instructor.

FAAH 3212 Introduction to The Theory of Art **Cr. Hrs. 3**

This lecture course is a introduction to major theoretical and critical approaches to art. The course will explore theories regarding formal aspects of art as well as social, cultural and ideological concerns, historically significant critical movements, and issues of production, exhibition and reception. May not be held with FAAH 3210. Prerequisites: FAAH 1030 and FAAH 1040; or FAAH 1050 and FAAH 1060.

FAAH 3220 Topics in Aboriginal Art **Cr. Hrs. 3**

This course will cover significant topics in the art of the North American Aboriginal peoples, including the Inuit. Topic will vary from year to year. Prerequisite: FAAH 2090 or FAAH 3430, as appropriate, or written permission of the instructor.

FAAH 3230 Chinese Art and Architecture **Cr. Hrs. 3**

A survey of the art and architecture of China beginning with the Shang-Yin Period (2000 BCE) and continuing to the present. Prerequisite: FAAH 2100 or FAAH 1100 or written permission of the instructor.

FAAH 3240 Japanese Art and Architecture **Cr. Hrs. 3**

A survey of the art and architecture of Japan beginning with the Jomon Period (300 BCE to 300 CE) and continuing through the Heisei Period (1989 - present). Prerequisite: FAAH 2100 or FAAH 1100 or written permission of the instructor.

FAAH 3250 Topics in Art History **Cr. Hrs. 3**

This course will vary from year to year depending on the needs of students and the interests and availability of instructors. May not be taken for credit with a course equivalent to the topic currently offered. Prerequisite: Any 2nd year course or written permission of instructor.

FAAH 3260 Canadian Art and Architecture to World War 2 **Cr. Hrs. 3**

A study of Canadian art up to World War 2. Prerequisite: FAAH 1040 or written permission of the instructor.

FAAH 3270 Canadian Art Since World War 2 **Cr. Hrs. 3**

A study of Canadian art from World War 2 to the present. Prerequisite: FAAH 1040 or written permission of the instructor.

FAAH 3280 Early Byzantine Art and Architecture **Cr. Hrs. 3**

A study of the origin and evolution of early Byzantine Art and Architecture. Prerequisite: FAAH 1030 and FAAH 1040 or FAAH 2060 or written permission of the instructor.

FAAH 3290 Later Byzantine Art and Architecture **Cr. Hrs. 3**

A study of later Byzantine Art and Architecture to the end of the Middle Ages. Special emphasis will be placed on the influence of Byzantine art on the modern traditions of Eastern Europe. Prerequisite: FAAH 3280, or (FAAH 1030 and FAAH 1040), or FAAH 2060, or written permission of the instructor.

FAAH 3430 Inuit Art **Cr. Hrs. 3**

The history and analysis of Inuit Art. Prerequisite: FAAH 1030 and FAAH 1040 or FAAH 2090; or written permission of the instructor.

FAAH 3590 Islamic Art and Architecture **Cr. Hrs. 3**

A contextual and thematic study of Islamic art and architecture beginning in the 7th century and continuing through the present. Prerequisites: FAAH 1030 and FAAH 1040 or FAAH 2100 or FAAH 1100.

FAAH 3780 Twentieth Century American Art Until 1950 **Cr. Hrs. 3**

Realism, modernism, and regionalism are among the topics given special emphasis in this study of late 19th and 20th century American art. Prerequisite: one 2000-level in the appropriate area as defined by the instructor, or written permission of the instructor.

FAAH 3930 Introduction to Curatorial Studies **Cr. Hrs. 3**

A survey introduction to the theory and practice of art display and gallery collecting. Prerequisite: FAAH 2080 or by permission of the instructor.

FAAH 3940 History of Visual Communication **Cr. Hrs. 3**

A concentration of the advent of Modernism in visual communication and subsequent graphic design movements in the twentieth century. Prerequisites: STDO 2660 or [FAAH 1030 and FAAH 1040]. May not be held with STDO 3960.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Art History-4000 Level

FAAH 4060 Seminar in Art Theory and Criticism **Cr. Hrs. 3**

A seminar treating selected topics in the theory and criticism of art. Prerequisite: either FAAH 3210; or written permission of the instructor.

FAAH 4070 Seminar in Art History 1 **Cr. Hrs. 3**

Seminar treating special topics in Art History. Prerequisite: one 300-level in the appropriate area as defined by the instructor, or written permission of the instructor.

FAAH 4090 Seminar on Contemporary Issues in Art **Cr. Hrs. 3**

A seminar treating contemporary issues in art. The topic varies from year to year. Prerequisite: one 3000-level course in the appropriate area as defined by the instructor, or written permission of the instructor.

FAAH 4250 Seminar on Curatorial Studies **Cr. Hrs. 3**

Students receive hands-on experience within a critical context of curating an exhibition. Instructional methods include seminar format and practicum in School of Art Gallery. Prerequisites: FAAH 3930 and one 3000-level Art History course or by permission of the instructor.

FAAH 4710 Directed Study 1 **Cr. Hrs. 3**

Directed study in art history. Prerequisite: Written permission of instructor and director.

FAAH 4720 Directed Study 2 **Cr. Hrs. 3**

Directed study in art history. Prerequisite: Written permission of instructor and director.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Studio Courses-1000 Level

STDO 1210 Drawing: Studio 1 Cr. Hrs. 3

Students are introduced to key concepts and competencies used in contemporary drawing practice. Prerequisite for further study in fine arts studio courses. May not be held with STDO 1200.

STDO 1240 Figure Study 1 Cr. Hrs. 3

Traditional and experimental approaches to rendering the figure, culminating in the production of a portfolio of drawings. Prerequisite to further study in the Fine Arts Studio courses. May not be held with STDO 1200 or STDO 1230.

STDO 1250 Drawing: Studio 2 Cr. Hrs. 3

Building on competencies developed in STDO 1210 Drawing: Studio 1, students integrate individual research with methods and materials of contemporary drawing. Prerequisite for further study in fine arts studio courses. May not be held with STDO 1200. Prerequisite: STDO 1210.

STDO 1410 Visual Language Cr. Hrs. 3

An introduction to communication in contemporary visual art through traditional and experimental 2D and 3D modes. Prerequisite for further study in fine arts studio courses. May not be held with the former STDO 1220.

STDO 1450 Open Studio 1 Cr. Hrs. 3

Expanding concepts and ideas developed in Visual Language, students investigate the nature of contemporary art and design. Prerequisite for further study in fine arts studio courses. May not hold with the former STDO 1220. Prerequisite: STDO 1410.

STDO 1470 Materials Studio Cr. Hrs. 3

Students choose among individual studio area modules to learn material technologies used in art, facilitating students' ability to work in School of Art workshops. Prerequisite for further study in fine arts studio courses. May not be held with STDO 1220. Prerequisite: STDO 1410.

STDO 1480 Digital Essentials Cr. Hrs. 3

An introduction to the core software skills and digital methods that may be applied to art, design and research practices. Topics will provide students a basic understanding of digital platforms within a creative environment.

STDO 1510 Art Now Cr. Hrs. 3

Introduction to current activities in art practices through gallery talks/visits, journal writing, formal critique methods and research methodology. It supports FA 1990 (Field Trip) which all first year BFA students must take. Pre-requisite to further study in Fine Arts Studio courses. May not be held with STDO 1200, STDO 1220 or STDO 1430.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Studio Courses-2000 Level

STDO 2210 Sculpture 1 Cr. Hrs. 6

This course introduces materials, processes and ideas informing the making of contemporary sculptural practices. Prerequisites: Successful completion of 21 credit hours of 1000-level STDO courses.

STDO 2220 Painting 1 Cr. Hrs. 6

Basic instruction in oil painting and pictorial composition. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2230 Ceramics 1 Cr. Hrs. 6

Introduction to ceramic art, including contemporary processes, techniques, and history. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2250 Drawing 1 Cr. Hrs. 3

Creative use of drawing with emphasis on the human figure. Prerequisites: Successful completion of 21 credit hours at 1000-level STDO courses. May not be held with STDO 2240.

STDO 2310 Beginning Wheel Throwing with Clay Cr. Hrs. 3

This course will cover the basics of wheel throwing and gas kiln firing. Technical and conceptual content will be provided through a series of assigned projects. May not be held with STDO 2230. Prerequisite: Successful completion of 21 credit hours of 1000 level studio courses.

STDO 2320 Beginning Hand Building with Clay Cr. Hrs. 3

This course will cover the basics of hand building with clay and electric kiln firing. Technical and conceptual content will be provided through a series of assigned projects. May not be held with STDO 2230. Prerequisite: Successful completion of 21 credit hours of 1000 level studio courses.

STDO 2400 Photography 1 Cr. Hrs. 6

Introduction to the camera and photographic techniques with problems in creative visual expression. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2460 Digital Photography 1 Cr. Hrs. 3

This is a Studio course introducing the basic technical foundation and critical understanding of contemporary photo-based image production. Pre-requisites: Successful completion of 21 credit hours at 1000-level STDO courses. May not be held with STDO 2450.

STDO 2500 Printmaking Intaglio A Cr. Hrs. 3

An introduction to the basic techniques in Intaglio. Prerequisites: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2502 Printmaking Intaglio B Cr. Hrs. 3

A continuation in the basic techniques in Intaglio. Prerequisites: STDO 2500 or STDO 2550.

STDO 2510 Printmaking Silkscreen A Cr. Hrs. 3

An introduction to the basic techniques in Silkscreen. Prerequisites: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2512 Printmaking Silkscreen B Cr. Hrs. 3

A continuation in the basic techniques in Silkscreen. Prerequisites: STDO 2510 or STDO 2550.

STDO 2520 Printmaking Lithography A Cr. Hrs. 3

An introduction to the basic techniques in Lithography. Prerequisites: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2522 Printmaking Lithography B Cr. Hrs. 3

A continuation in the basic techniques in Lithography. Prerequisites: STDO 2520 or STDO 2550.

STDO 2530 Relief and Monoprints Cr. Hrs. 3

This course introduces the student to working in a printshop environment, using various mediums and methods of creating works on paper. Projects are structured to explore traditional and experimental approaches to monoprinting and relief printmaking. Technical proficiency and skill will require practice and attention to detail. Prerequisites: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2610 Video 1 Cr. Hrs. 6

The creative use of video as an art medium. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2630 Design Studio 1 **Cr. Hrs. 3**

An introduction to the creative use of design elements and principles applied to problems in Graphic Design. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO course.

STDO 2640 Design Studio 2 **Cr. Hrs. 3**

A continuation of the investigation of the creative use of advanced design elements and principles applied to problems in Graphic Design. The course provides a grounding in the concepts, techniques and skills required to solve specific problems, develop a personal design process and acquire a deeper understanding of visual media. Prerequisite: STDO 2630.

STDO 2650 Digital Design Technology **Cr. Hrs. 3**

This course is an introduction to the computer as a creative tool and to explore industry standard software for use in the creative graphic design applications. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses.

STDO 2670 Design Theory and Criticism 1 **Cr. Hrs. 3**

An introduction to the nature of the design process and the principles of visual perception and visual language with a focus on the cultural and commercial roles of visual communication design practice. Prerequisite: Successful completion of 21 credit hours at 1000-level STDO courses and FAAH 1030 and FAAH 1040.

STDO 2680 Special Topics **Cr. Hrs. 3**

Selected projects in Fine Art Studio of current interest. Prerequisite: Written permission of instructor and director

STDO 2690 Special Topics in Studio Practice 1 **Cr. Hrs. 3**

Individual three credit hour courses offered in multiple discipline areas. Courses will provide opportunities for skill building, conceptual development and depth of topics of interest. Pre-requisites: twenty-one credit hours of 1000-level Studio courses or written permission of the instructor.

STDO 2712 Interdisciplinary Studio 1 **Cr. Hrs. 3**

Complementary to 2000-level Studio practice courses. Students will engage in discussion, readings and practical studio work. May not hold with the former STDO 2710. Pre-requisites: Twenty-one credit hours at 1000-level Studio courses.

STDO 2740 Open Media **Cr. Hrs. 3**

This interdisciplinary studio course encourages the research, creation, and presentation of works of a diverse nature. Prerequisites: Successful completion of 21 credit hours at 1000 level STDO courses.

STDO 2810 Introduction to Performance Art **Cr.Hrs. 3**

An introduction to the language and form of performance art, including live performance, performance based installation, and interactive and relational performances. May not be held with STDO 3680 when titled "Introduction to Performance Art." Prerequisite: Successful completion of 21 credit hours of 1000-level STDO courses.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Studio Courses-3000 Level

STDO 3330 Advanced Drawing 2 **Cr. Hrs. 6**

An upper level drawing course with an emphasis on finished drawings and experimental techniques. Prerequisite: STDO 2250.

STDO 3370 Advanced Ceramics **Cr. Hrs. 6**

Continuation of Ceramics 1 (STDO 2230). Prerequisite: STDO 2230.

STDO 3380 Advanced Wheel Throwing with Clay **Cr. Hrs. 3**

A continuation of STDO 2310 Beginning Wheel Throwing with Clay. This course will focus on advanced techniques in wheel throwing and the firing of gas and atmospheric kilns. May not be held with STDO 3370. Prerequisite: STDO 2310 or permission of the School of Art.

STDO 3390 Advanced Hand Building with Clay **Cr. Hrs. 3**

A continuation of STDO 2320 Beginning Hand Building with Clay with a focus on experimental and innovative practices. May not be held with STDO 3370. Prerequisite: STDO 2320 or permission of the School of Art.

STDO 3420 Advanced Painting **Cr. Hrs. 6**

Continuation of Painting 1 (STDO 2220) with increasing emphasis on painting techniques, theory, and use of expressive idioms. Prerequisite: STDO 2220.

STDO 3460 Advanced Sculpture **Cr. Hrs. 6**

Continuation of Sculpture 1 (STDO 2210), with emphasis on one of modeling, carving, or construction. Prerequisite: STDO 2210.

STDO 3480 Advanced Photography 1 **Cr. Hrs. 6**

Continuation of Photography 1 (STDO 2400) or Digital Photography (STDO 2450), with emphasis on print quality and personal imagery. Prerequisite: STDO 2400 or STDO 2450.

STDO 3490 Photography 2 **Cr. Hrs. 9**

Advanced instruction toward individual expression. (Major course) Prerequisite: a grade of "C+" or better in STDO 2400 or STDO 2450.

STDO 3670 Special Topics **Cr. Hrs. 6**

Projects of an unusual nature. Click on View "Timetable" to see current offerings. Prerequisite: written permission of instructor and director.

STDO 3680 Special Topics in Studio Practice 2 **Cr. Hrs. 3**

Individual three credit hour courses offered in multiple discipline areas. Courses will provide opportunities for skill building, conceptual development and depth on topics of interest. Pre-requisites: will vary depending on the course.

STDO 3830 Advanced Printmaking A **Cr. Hrs. 3**

An upper level print media course allowing students to develop work in one or more of the print process. Prerequisite: Successful completion with a minimum of a grade of "C" in one of the following courses: STDO 2500, STDO 2502, STDO 2510, STDO 2515, STDO 2520, STDO 2522 or STDO 2530.

STDO 3840 Advanced Printmaking B **Cr. Hrs. 3**

An upper level print media course allowing students to develop work in one or more of the print processes. Prerequisite: a grade of C in STDO 3830.

STDO 3910 Design Studio 4 **Cr. Hrs. 3**

This course builds on students' abilities to solve graphic design problems in visual communications as developed in Design Studio 3, and to increase the repertoire of design problems typically encountered in professional practice. Prerequisite: STDO 3920. May not be held with STDO 3940.

STDO 3920 Design Studio 3 **Cr. Hrs. 3**

This course builds on students' abilities to solve graphic design problems in visual communications as developed in Design Studio 1, and to increase the repertoire of design problems typically encountered in professional practice. Prerequisite: C+ or better in STDO 2630 and STDO 2640. May not be held with: STDO 3930.

STDO 3950 New Media Design **Cr. Hrs. 3**

An exploration of the 'new media' revolution within a critical graphic design context. The course is also an introduction to the tools and principles of new media content creation and information architecture. Prerequisite: STDO 2650.

STDO 3972 Interdisciplinary Studio 2 **Cr. Hrs. 3**

Complementary to 2000-level and 3000-level Studio practice courses. Students will engage in discussion, readings, and practical studio work. May not hold with the former STDO 3970. Pre-requisites: twenty-one credit hours of 1000-level Studio courses.

SECTION 5: Fine Arts Course Descriptions- Fine Arts Studio Courses-4000 Level

STDO 4450 Advanced Drawing 3 **Cr. Hrs. 6**

Advanced individual instruction in creative drawing. Prerequisite: STDO 3330 or STDO 3630.

STDO 4520 Advanced Ceramics 2 **Cr. Hrs. 6**

Individual instruction (Ceramics) with concentration in the areas most relevant to the student's creative development. Prerequisite: STDO 3370 or STDO 3620.

STDO 4530 Advanced Painting 2 **Cr. Hrs. 6**

Individual instruction with concentration in the areas most relevant to the student's creative development. Prerequisite: STDO 3420 or STDO 3600.

STDO 4550 Advanced Sculpture 2 **Cr. Hrs. 6**

Individual instruction with concentration in the areas most relevant to the student's creative development. Prerequisite: STDO 3460 or STDO 3650.

STDO 4570 Advanced Printmaking 2A **Cr. Hrs. 3**

Continuation of Advanced Printmaking 2. Students may not hold credit for both STDO 4540 and STDO 4570. Prerequisite: STDO 3830 and STDO 3840, or STDO 3890 and STDO 3900.

STDO 4610 Advanced Printmaking 2B **Cr. Hrs. 3**

Continuation of Advanced Printmaking 2A. Students may not hold credit for both STDO 4540 and STDO 4610. Prerequisite: STDO 4570.

STDO 4700 Advanced Photography 2 **Cr. Hrs. 6**

Advanced individual instruction in creative photography. Prerequisite: STDO 3480 or STDO 3490.

STDO 4710 Design Senior Studio 1 **Cr. Hrs. 6**

(Lab required) This course provides an opportunity for students to propose and develop a self-directed term-long design project. Peer learning and collaboration will be encouraged using yearly thematic focus to frame the class research. May not be held with STDO 4810 or STDO 4820. Prerequisite: STDO 3910.

STDO 4720 Design Senior Studio 2 **Cr. Hrs. 6**

(Lab required) This course provides an opportunity for students to propose and develop a self-directed term-long design project. Peer learning and collaboration will be encouraged using a yearly thematic focus to frame the class research. May not be held with STDO 4810 or STDO 4820. Prerequisite: STDO 4710.

STDO 4730 Design Honours Seminar 1 **Cr. Hrs. 3**

Design Honours Seminar will complement the work and research in Design Honours Studio 1 and 2 and provide critical conversations around contemporary design. The course emphasizes writing about design as well as covering issues related to the documentation and dissemination of design thinking, design process and designed outcomes. May not be held

with STDO 4910. Prerequisite: Successful completion of 15 credit hours of 3000 level studio courses. Corequisite: STDO 4710.

STDO 4810 Senior Studio 1 **Cr. Hrs. 6**

Students develop and complete a self-directed program of Studio work. Regular peer and faculty review of Studio program of work. Taught by individual faculty or two-faculty teams. May not hold with STDO 4880 or 054.488. Open only to students in fourth year Honours. Pre-requisite: 15 credit hours of 3000 level Studio courses. Co-requisite: STDO 4910.

STDO 4820 Senior Studio 2 **Cr. Hrs. 6**

Taken after Senior Studio 1 (STDO 4810) students develop and complete their self-directed program of Studio work. Regular peer and faculty review of Studio program of work. Taught by individual faculty or two-faculty teams. Open only to students in fourth year of Honours program. Pre-requisite: STDO 4810. Corequisite: STDO 4920. May not be held with STDO 4880.

STDO 4870 Production and Professional Practice **Cr. Hrs. 3**

An examination of the technologies and techniques of visual communication production with a focus on the concepts of business and production management. This studio course is a part of the graphic design area sequence. Prerequisite: STDO 3920 (or STDO 3930, STDO 3910 (or STDO 3940), and STDO 3950.

STDO 4910 Honours Seminar 1 **Cr. Hrs. 3**

This Seminar is taken in the fourth year of the Bachelor of Fine Arts Honours Degree as the first of two Honours Seminar courses and taken co-currently with Senior Studio 1 and Senior Studio 2. Issues of professional practice are examined against contemporary art theory. Students document their work and create artist statements and interact with visiting artists. Prerequisites: 15 credit hours of 3000-level Studio courses. Co-requisite: STDO 4810. May not be held with STDO 4890.

STDO 4920 Honours Seminar 2 **Cr. Hrs. 3**

A continuation of STDO 4910, Honours Seminar 1. Issues of professional practice are examined against contemporary art theory. Students document their work and create artists statements and interact with visiting artists. Co-requisite: STDO 4820. Pre-requisite: STDO 4910. May not be held with STDO 4890.

Faculty of Arts

Dean: Jeffery Taylor

Associate Dean(s): Jason Leboe-McGowan (Undergraduate), Steven Lecce (Undergraduate), Heidi Marx (Research), Greg Smith (Graduate), Robert Hoppa (Research)

Campus Address/General Office: 134 Fletcher Argue Building

Telephone: (204) 474 9100

Fax: (204) 474 7590

Email Address: arts_inquiry@umanitoba.ca

Website: umanitoba.ca/arts

Academic Staff: For complete listings of the Faculty of Arts Academic Staff, please refer to departmental websites

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- 8.22 Native Studies**
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- 8.24 Political Studies**
- 8.25 Psychology**
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8.28 Ukrainian Canadian Heritage Studies**8.29 Women's and Gender Studies****SECTION 9: Courses and Programs Offered by Other Faculties and Schools for Credit in Arts****9.1 School of Art: Art History****9.2 Faculty of Management/I.H. Asper School of Business****9.3 Faculty of Science****9.4 Interfaculty Option in Aging****SECTION 1: Degree Programs Offered Leading to a B.A****1.1 Degrees**

| Degree | Years to Complete (at 100% Load) | Total Credit Hours |
|---|---|-------------------------------|
| Bachelor of Arts (General) | 3 | 90 |
| Bachelor of Arts (Advanced) | 4 | 120 |
| Bachelor of Arts (Honours) | 4 | 120* |
| Bachelor of Arts Integrated Studies | 3 | 90 |
| <p>There is no time limit for completion of any of the above degree programs. Students may complete their degree on a full-time or part-time basis. *Effective September 2015, all Honours programs will be 120 credit hours.</p> | | |

1.2 Available Honours, Major, Minor and Concentration Programs

| | | Concentration* | Minor | General Major | Single Advanced Major | Double Advanced Major | Single Honours | Double Honours |
|-----------------------------------|-----------------------------------|----------------|-------|---------------|-----------------------|-----------------------|----------------|----------------|
| Anthropology | | • | • | • | • | • | • | • |
| Art History | | • | • | • | | | | |
| Asian Studies | | • | • | • | | | | |
| Canadian Studies | | • | • | • | | | • | • |
| Catholic Studies | | • | • | | | | | |
| Central and East European Studies | | • | • | • | • | • | | • |
| The Changing Workplace | | • | | | | | | |
| Classics | Classical Studies | • | • | • | • | • | | |
| | Greek | • | • | | • | | | |
| | Latin | • | • | | • | | | |
| Economics | | • | • | • | | | • | |
| | Economics and Econometrics Stream | | | | • | | • | |
| | Economics and Society Stream | | | | • | | • | |
| | Economics-Mathematics | | | | | | • | |
| | Economics-Statistics | | | | | | • | |
| English, Theatre, Film & Media | English | • | • | • | • | • | • | • |
| | Film Studies | • | • | • | • | • | | |
| | Theatre | • | • | • | • | • | | |
| French, Spanish and Italian | French | • | • | • | • | • | • | • |
| | Spanish | • | • | • | • | | | |
| | Italian | • | • | | | | | |
| | Italian Studies | | | • | • | | | |
| German and Slavic Studies | German | • | • | • | | | • | • |
| | Russian | • | • | • | | | | |
| | Ukrainian | • | • | • | | | | |
| | Polish | • | • | | | | | |
| Global Political Economy | | | • | • | | | | |
| History | | • | • | • | • | | • | • |
| Icelandic | | • | • | • | | | • | • |
| Judaic Studies | | • | • | | | | | |
| Labour Studies | | • | • | • | ** | | | |

| | | | | | | | | |
|-------------------------------------|---|---|---|---|----|---|---|---|
| Latin American Studies | | . | . | | | | | |
| Linguistics | | . | . | . | . | . | | |
| | Linguistics (UofM) and American Sign Language/ English Interpretation (RRC) | | | . | | | | |
| Management | | . | . | | | | | |
| Mathematics | | . | . | . | . | | | |
| Medieval and Early Modern Studies | | . | . | . | . | | | |
| Option in Aging | | . | | | | | | |
| Native Studies | | . | . | . | . | | | |
| | Indigenous Languages | . | . | | | | | |
| | Aboriginal Governance Stream with required Minor in Business | | | | . | | | |
| Philosophy | | . | . | . | . | . | . | . |
| Political Studies | | . | . | . | . | | . | . |
| Psychology | | . | . | . | ** | | . | . |
| Religion | | . | . | . | . | | . | . |
| Sociology and Criminology | Sociology | . | . | . | . | | . | . |
| | Criminology | | | . | | | . | |
| Ukrainian Canadian Heritage Studies | | . | . | . | . | | | |
| Women's and Gender Studies | | . | . | . | . | . | . | . |

NOTES: Students in the General and Advanced Degree programs may complete a Double Major. See Section 3.1.4 or 3.2.4 for information on the declaration of a Double Major in the respective degree program. Arts students may complete Minor programs offered by other Faculties/Schools not listed above providing the Minor Program consists of a minimum of 18 credit hours and all other degree requirements are satisfied. Students in the B.A.I.S. Degree Program may complete Minor programs offered by other Faculties/Schools to satisfy the Concentration requirement providing the Minor program consists of a minimum of 18 credit hours.

*Concentrations other than the Option in Aging (which is open to all Arts students) are available only to students in the B.A.I.S. degree program.

** Co-operative Education option available

SECTION 2: Admission to the Faculty of Arts B.A. General, Advanced or Honours Degree Programs

The following is a summary of the admission requirements. All admission requirements, as well as application deadline dates and forms, are included in the Faculty of Arts Applicant Information Bulletin that is available from the Admissions Office, Enrolment Services, 424 University Centre; this information is also posted on the University of Manitoba website.

Other than Direct Entry students, completion of a minimum of 24 credit hours of university level courses is required. Depending on the academic performance on the courses acceptable for credit, students may be admitted to or transit into the Faculty in good standing or on the recommendation of the Dean.

At the point of admission or transfer to the Faculty of Arts all students proceeding to an undergraduate B.A. Degree are automatically in the General Degree Program. Subsequently, students may apply through the Faculty of Arts General Office for entry to either the Advanced Degree Program or the Honours Degree program.

The specific requirements for the General, Advanced and Honours Degree programs are given in Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Each department and program outlines its entry requirements in Section 8: Departments in, and Programs and Courses Offered by, the Faculty of Arts.

2.1 Direct Entry from High School

Eligible students may apply to enter the Faculty of Arts upon completion of a high school diploma. Eligible students must meet the criteria listed below:

- Manitoba high school graduation, with five full credits at the Grade 12 level, in courses designated S (Specialized), G (General), or U (Dual Credit-University), or the equivalent standard from other provinces and countries will be considered.
- A minimum average of 85% in three Grade 12 S or U credits and a minimum grade of 60% in each of the three credits.
- One of the three credits included in the minimum average of 85% must be Grade 12 S or U English.

Note: High school mathematics is NOT required for admission to the Faculty of Arts. However, it is recommended students complete either applied mathematics or pre-calculus within the Manitoba high school curriculum, or equivalent, to facilitate their ability to fulfill the University's "M" (or "mathematics") requirement for graduation and to enter certain Arts programs which require mathematics.

2.2 Transit from University 1

a) Students who have completed 30 credit hours or more of coursework and who are not admissible to other faculties or schools will be required to transit to the Faculty of Arts or the Faculty of Science.

b) Students who have completed either 24 or 27 credit hours of coursework may choose to transit to the Faculty of Arts or Faculty of Science.

Note: Students who have exceeded 36 credit hours of "F" grades will not normally be admissible until a suspension has been served. Students may contact the Faculty of Arts for further information and advice.

2.3 Admission as a Transfer Student

Students transferring to the Faculty of Arts from another faculty or school at the University of Manitoba are called "internal transfers." Students

transferring to the Faculty of Arts from another university or college are called "external transfers."

Transfer students must apply for admission to the Faculty of Arts, Advanced Entry Option, on-line at www.umanitoba.ca/applynow by the application deadline date.

For the University of Manitoba's general policy on external transfer students and advanced standing, see the chapter on Admission to the University of Manitoba in this Calendar.

Students who apply to transfer to the Faculty of Arts must have completed no fewer than 24 credit hours of university level coursework and must have achieved a minimum cumulative grade point average of 2.00. Students who have completed 24 credit hours or more and who have not achieved at least a 2.00 cumulative grade point average will be considered for admission on the basis of an adjusted grade point average which is a 2.00 grade point average on the best 24 credit hours. Students who have exceeded the maximum number of "F" grades permitted on courses acceptable for credit in Arts (see Section 5.10) should contact the Faculty of Arts for further information and advice.

Anyone who has been placed on academic suspension by another faculty, school, or external institution will not normally be admissible if less than one year has elapsed since they had been placed on suspension. The waiting period will be increased to two years if the student has been placed on suspension more than once in consecutive years. For information regarding transfer credit see Sections 5.2.1 and 5.2.2.

2.4 Admission as a Student Seeking a Second Degree

A student who holds an undergraduate degree from a recognized university program (including the University of Manitoba) may apply for admission to pursue a second undergraduate degree from the Faculty of Arts. For information regarding possible transfer credit see Section 5.14.

2.5 Admission as a Visiting Student

A "visiting" student is one who is pursuing a degree at another institution and whose basis of admission is a Letter of Permission from their home institution granting permission to register at the University of Manitoba. Previously admitted visiting students can register in a subsequent term without applying for admission, provided they have a Letter of Permission and have not changed their home institution. Certain restrictions may be placed on the kind and number of courses in which they will be allowed to register.

2.6 Admission as a Special Student

The Faculty of Arts does not accept students under the special student category. Students seeking admission as a special student should apply to Extended Education.

SECTION 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs

Students are encouraged, prior to reading the faculty regulations which follow, to review the chapter, General Academic Regulations and Requirements, in this Academic Calendar.

It is highly recommended that all students entering the Faculty of Arts to pursue a General, Advanced or Honours Degree complete six credit hours in each of five different subject fields within the first 30 credit hours. If possible, they should include among those courses the subject fields in

which they will probably specialize because future choices may be limited by their initial choice of courses. Also, students must meet a subject field requirement to qualify for entrance to both the Advanced and Honours programs (see Section 3.2 and 3.3).

Honours courses may be taken by students in the General or Advanced Major programs with the written consent of the department head or program coordinator.

3.1 General Degree Program

3.1.1 General Purpose

The General Degree in the Faculty of Arts involves taking courses in what are traditionally referred to as the "liberal" arts. The goal of a liberal arts education is to provide students with an education in the humanities and social sciences and at the same time prepare them for future careers. An Arts education is intended to provide students with "employability skills" that are highly valued by employers and needed in the contemporary workplace. Some of these skills include reading, writing, listening, speaking effectively, knowledge of language, critical thinking, problem solving, basic numeracy, information literacy, and an appreciation of our cultural, political, and economic milieu.

The General Degree would not normally prepare students for graduate studies. Most graduate programs require students complete a four year degree. Therefore students interested in a graduate program should complete the Bachelor of Arts Advanced or Honours Degree Program following discussion with a departmental graduate program advisor.

3.1.2 Entrance into the B.A. General Degree Program

- 1) At the point of entry to the Faculty of Arts all students proceeding to an undergraduate B.A. Degree are automatically in the General Degree Program. Subsequently, students may apply through the Faculty of Arts General Office for admission to either the Advanced Degree Program or the Honours Degree program.
- 2) All students who have completed 30 credit hours of coursework are encouraged to declare a Major and a Minor. Once the Major or Minor is declared it can be changed at some later registration. Students may also declare a second or Double Major in lieu of a Minor. Students who want to declare a Double Major must complete a Double Major declaration form available in the Faculty of Arts General Office or on the Faculty of Arts website. Students should note that for entry into Majors/Minors, the faculty requirement is a grade of "C" or better in the prerequisite course(s).

For entry into a Major requiring courses from more than one department, the faculty requirement is an average of "C" or better in all courses which are eligible to count towards the Major.

For detailed information regarding entry and specific course requirements for Majors and Minors, see the specific departmental listing in Sections 8 and 9 of this Calendar.

3.1.3 Requirements for Continuing in the B.A. General Degree Program

- 1) By the time students complete 60 credit hours, they should have six credit hours in each of five different subject fields and must have declared a Major and Minor. Students who have not declared a Major or Minor by the time 60 credit hours of coursework have been completed, will not be able to continue registration until a Major/Minor is declared.
- 2) Students admitted to the Faculty of Arts, must by the time they have completed 60 credit hours have successfully completed or be registered for at least three credit hours in a course with significant content in written English and at least three credit hours in a course in

mathematics. (See the Chapter General Academic Regulations and Requirements, Appendix A: List of Approved Written English and Mathematics Courses, or search Aurora Student for the course attributes "Written English Requirement" or "Mathematics Requirement.")

- 3) Students must meet the minimum performance level as outlined in Section 5.10.

3.1.4 Ten Faculty Requirements for Graduating with a B.A. General Degree

- 1) A student must successfully complete 90 credit hours of courses acceptable for credit in the Faculty of Arts (see Section 5.2) with a minimum grade point average of 2.00 (i.e. "C" average) on these 90 credit hours.
The 90 credit hours of passed coursework must include the remaining nine faculty requirements:
At least six credit hours from subject fields designated Humanities, at least six credit hours from subject fields designated Social Science, and at least six credit hours from the list of courses that satisfy the Science requirement (see Section 5.1.1).
- 2) At least six credit hours completed in each of five different subject fields (as listed in Section 5.1.1). A subject field may also satisfy other Bachelor of Arts Degree requirements such as Humanities, or Social Sciences, or Sciences, or Mathematics, or Written English.
- 3) Major: 30 credit hours which constitute a Major in one of the subject fields approved by the Faculty of Arts (see Section 5.1.1). The student must also have a minimum grade point average of 2.00 (i.e. "C" average) or better in courses where a final grade is recorded and that are used toward the Major including only the last grade of any course that has been repeated and excluding any failed course(s). A student who declares only one Major must also complete a Minor. A student who declares a Double Major will not be required nor allowed to complete a Minor, but must complete 30 credit hours as specified by each Major department. Students who have questions about a Major in a particular subject are strongly urged to consult an instructor in the appropriate department. A Major may be declared once the prerequisite is satisfied.
- 4) Students who declare and complete a Major in Global Political Economy will not be required nor allowed to complete a separate field for a Minor for purposes of satisfying the degree requirements.
- 5) Minor: 18 credit hours which are in a subject field that is different from that of the declared Major, which constitute a Minor approved by the Faculty of Arts (see Section 5.1.1). A student who declares only one Major must also complete a Minor. A student who declares a Double Major will not be required nor allowed to complete a Minor. It is not possible to declare a "Double Minor." No course can be used to satisfy both the Major(s) and the Minor requirement. A Minor may be declared once the prerequisite is satisfied.
- 6) At least 30 credit hours of coursework must be successfully completed outside the Major(s) and Minor subject fields. In addition, there must be at least 12 credit hours of coursework successfully completed in any subject acceptable for credit in the Faculty of Arts including courses in the Major(s) and Minor. Note: Students who complete a Double Major will satisfy this 12 credit hour requirement within their Double Major.
- 7) A student may not declare a Major/Minor combination in both Sociology and Criminology or both Italian and Italian Studies.
- 8) At least 60 credit hours must be taught by the Faculty of Arts (may include up to 24 credit hours from the Department of Mathematics or Art History courses considered as Humanities,

see Section 5.1.1), or which have been accepted on transfer as equivalent to courses taught by the Faculty of Arts.

- 9) At least 30 credit hours must be numbered at or above the 2000 level.
- 10) Residency Requirement: A student in the B.A. General Degree Program must complete University of Manitoba residency requirements (see Section 5.3 for details).

3.2 Advanced Degree Program

3.2.1 Its General Purpose

This program is intended primarily to serve students who desire a general education along with a reasonable degree of specialization in one area of study through the Major. In addition to the basic skills learned in the B.A. General Degree Program, an extra year of study provides the opportunity to learn more advanced skills such as research, critical thinking, information management and public speaking.

The Advanced Degree Program is also well suited to students seeking to build an academic term or year of studies abroad into their undergraduate degree. The Advanced Degree offers the time in the degree to take advantage of opportunities for international focus and experience.

While most graduate programs require students complete an Honours Degree, it may be possible to enter a graduate program on the basis of the Advanced Degree. Students should discuss this possibility with a departmental graduate program advisor.

3.2.2 Entrance to the B.A. Advanced Degree Program

- a) To enter an Advanced Degree Program, a student must have successfully completed six credit hours in each of four different subject fields (see Section 5.1.1), and also complete an application form available in the Faculty of Arts General Office or on-line at http://umanitoba.ca/faculties/arts/student_resources/student_forms.html and have it approved by an academic advisor. At the point of entry to the Advanced Degree Program, the student must indicate their intention to complete a Single Advanced Major or a Double Advanced Major.

Once admitted to the Faculty of Arts it is possible to enter this program at any point up to one month prior to graduation.

- b) All students are required, upon entering the Single Advanced Major Program, to declare a Major and Minor. Students entering the Double Advanced Major Program are required to declare two Majors. Students should note that for entry into a Major(s) requiring courses from only one department, the faculty requirement is a grade of "C" or better in the prerequisite course(s).

For entry into a Major(s) requiring courses from more than one department, the faculty requirement is that the student must have an average of "C" or better in all courses which are eligible to count towards the Major.

For additional information regarding entrance into Majors (such as which courses are eligible for counting as fulfilling the Major) see the specific listing for the relevant department in Sections 8 and 9. Students with questions about an Advanced Major in a particular subject should consult an instructor in the appropriate department.

- c) For entry to the Minor a grade of "C" or better in the prerequisite course(s) is required.

3.2.3 Requirements for Continuing in the B.A. Advanced Degree Program

- 1) Students admitted to the Faculty of Arts, must by the time they have completed 60 credit hours have successfully completed or be registered for at least three credit hours in a course with

significant content in written English and at least three credit hours in a course in mathematics. (See the Chapter General Academic Regulations and Requirements, Appendix A: List of Approved Written English and Mathematics Courses, or search Aurora Student for the course attributes "Written English Requirement" or "Mathematics Requirement.")

- 2) Students must meet the minimum performance level as outlined in Section 5.10.

3.2.4 Ten Faculty Requirements for Graduating with a B.A. Advanced Degree

- 1) A student must successfully complete 120 credit hours from among the courses acceptable for credit in the Faculty of Arts (see Section 5.2), with a minimum grade point average of 2.00 (i.e. "C" or better) on these 120 credit hours.
The 120 credit hours of passed coursework must include the remaining nine faculty requirements:
- 2) At least six credit hours from subject fields designated Humanities, at least six credit hours from subject fields designated Social Science, and at least six credit hours from the list of courses that satisfy the Science requirement (see Section 5.1.1).
- 3) At least six credit hours completed in each of five different subject fields (as listed in Section 5.1.1). A subject field may also satisfy other Bachelor of Arts requirements such as Humanities, or Social Sciences, or Sciences, or Mathematics, or Written English.
- 4) Single Advanced Major: 48 credit hours which constitute a Single Advanced Major in one of the subject fields approved by the Faculty of Arts (see Section 5.1.1). The student must have a grade point average of 2.00 (i.e. "C" average) or better in courses where a final grade is recorded that are used toward the Major including only the last grade of any course that has been repeated and excluding any failed course(s). A student who declares a Single Advanced Major must also complete a Minor with the exception of students whose Major is Global Political Economy. Students with an Advanced Major in Global Political Economy will not be required nor allowed to complete a Minor for purposes of satisfying the degree requirements.
Double Advanced Major: At least 42 credit hours which constitute a Double Advanced Major in each of two subject fields approved by the Faculty of Arts (see Section 5.1.1). The student must have a grade point average of 2.00 (i.e. "C" average) or better in courses where a final grade is recorded that are used toward each Major including only the last grade of any course that has been repeated and excluding any failed course(s). A student who declares a Double Advanced Major will not be required nor allowed to complete a Minor, but must complete the Double Advanced Major in accordance with the requirements as specified by the Major department. A Major may be declared once the prerequisite has been satisfied.

Note: No course can be used to satisfy both the Single Advanced Major and Minor requirement. Similarly no course can be used to satisfy both Double Advanced Majors. Not every department offers a Single or Double Advanced Major. See the departmental listings in Sections 8 and 9 for information.

- 5) Minor: 18 credit hours which are in a subject field that is different from that of the declared Single Advanced Major, which constitute a Minor approved by the Faculty of Arts (see Section 5.1.1). A student who declares a Single Advanced Major must also complete a Minor. A student who declares a Double Advanced Major will not be required nor allowed to complete a Minor. No course can be used to satisfy both the Advanced Major(s) and the Minor requirement. Only one

Minor may be declared. A Minor may be declared once the prerequisite has been satisfied.

- 6) A student who declares a Single Advanced Major with a Minor must have at least 42 credit hours in subjects other than those used towards the Single Advanced Major and Minor. In addition, students in a Single Advanced Major must successfully complete 12 credit hours of coursework in any subject acceptable for credit in the Faculty of Arts including courses in the Major and Minor.
A student who declares a Double Advanced Major must have at least 36 credit hours in subjects other than those used towards their Double Advanced Major subject fields.
- 7) A student may not declare a Major/Minor combination in both Sociology and Criminology or both Italian and Italian Studies.
- 8) At least 81 credit hours that have been taught by the Faculty of Arts (may include up to 36 credit hours from the Department of Mathematics or Art History courses considered as Humanities, see Section 5.1.1), or which have been accepted on transfer as equivalent to courses taught by the Faculty of Arts.
- 9) At least 42 credit hours numbered at or above the 2000 level.
- 10) Residency Requirement: A student in the B.A. Advanced Degree Program must complete University of Manitoba residency requirements (see Section 5.3 for details).

3.3 Honours Degree Program

3.3.1 Its General Purpose

This program is designed to provide a high degree of specialization in a subject field. The entrance requirements and evaluation of performance are at a higher level than the General or Advanced Degree programs. The Honours Degree program is the preferred program for students seeking entrance to graduate study.

3.3.2 Entrance to the B.A. Honours Degree Program

To enter an Honours Degree program, a student must complete an application form which is available in the Faculty of Arts General Office. Students must have successfully completed six credit hours in each of four different subject fields (see Section 5.1.1), with a minimum cumulative grade point average of 3.0 (3.5 for entry to Psychology) on all courses including failed and repeated courses. In addition, students must have a cumulative grade point average of 3.0 (3.5 for entry to Psychology) or better in all course(s) in the intended Honours subject field(s) including failed and repeated courses. Students applying for Honours Psychology must have a minimum grade of "B" in PSYC 2260. Students applying for Honours History must have a grade of "B" or higher in all 3000 and 4000 level History courses.

3.3.3 Requirements for Continuing in the B.A. Honours Degree Program

- 1) Prior to each registration, Honours students must have their courses approved by the department in person, and then by the Faculty of Arts General Office, and cannot make any subsequent changes without receiving prior permission from their department and the Faculty General Office.
- 2) Students admitted to the Faculty of Arts, must by the time they have completed 60 credit hours have successfully completed or be registered for at least three credit hours in a course with significant content in written English and at least three credit hours in a course in mathematics. (See the Chapter General Academic Regulations and Requirements, Appendix A: List of Approved Written English and

Mathematics Courses, or search Aurora Student for the course attributes "Written English Requirement" or "Mathematics Requirement.").

- 3) To continue in an Honours Degree program, the student must maintain a degree grade point average of 3.0 (3.5 for Psychology) at each point of assessment on all courses where a final grade is recorded (as well as meet any additional departmental requirements there may be). In order to continue in Honours History students must also maintain a "B" grade or higher in each History course at the 3000 and 4000 level.
Students who fail to maintain the required minimum degree grade point average are required to withdraw from the Honours Degree program. They will be automatically placed in the General Degree Program and will have the following academic assessment permanently recorded on their transcript: "Required to Withdraw from the Honours Program." These students may be eligible to apply to the Advanced Degree Program.

3.3.4 Four Faculty Requirements for Graduating with a B.A. Honours Degree

It should be noted that not every department has an Honours Degree program. For specific information on available Honours programs, please consult the specific listing for the relevant department in Section 8.

Note: Students in an Honours Degree program who satisfy the requirements for a Minor (in accordance with the Minor requirements listed under the B.A. General Degree; Section 3.1.4, point 5 - Minor) may request to have the Minor recorded on their transcript. These students must come to the Faculty of Arts General Office to formally declare their intention to have their Minor recorded on their transcript.

- 1) The number of credit hours which a student must successfully complete in order to receive an Honours Degree is 120. Information on the specific course requirements for the individual departments will be found in Section 8.
- 2) In order to graduate, a student in the B.A. Honours Degree program must satisfy the University of Manitoba residency requirements (see Section 5.3 for details) and attain a minimum degree grade point average of 3.0 on all coursework where a final grade is recorded.
- 3) Included among the courses presented for graduation there must be at least six credit hours completed in each of five different subject fields (as listed in Section 5.1.1).
- 4) Among the courses presented for graduation there must be at least six credit hours from subject fields designated Humanities, at least six credit hours from subject fields designated Social Science, and at least six credit hours from the list of courses that satisfy the Bachelor of Arts Science requirement (see Section 5.1.1).

3.4 Co-operative Education in the Faculty of Arts

Co-operative Education Office

Co-op Coordinator: Angela Faulkner
304 Tier Building
Telephone: 204 474 7209

3.4.1 Co-operative Education in the Faculty of Arts

Co-operative Education is available to students in any of the Bachelor of Arts Advanced or Bachelor of Arts Honours degree programs whose department offers Co-operative Education as an option. Co-op is an arrangement in which students spend alternating in academic terms and employment.

There are several advantages to Co-operative Education, including but not limited to the following:

Applying theoretical knowledge gained in the classroom to real life, working situations and applying knowledge gained in the workplace to the theory being taught in class. Both the academic and practical experiences are enriched by the other.

Students who complete Co-op are successful at exploring and selecting areas of specialization within their chosen field of study.

Enhanced professional development through networking, participation in conferences and workshops, acquisition of foundational skills around strategies for seeking and obtaining employment.

Students earn competitive wages and thus have the opportunity to defray the costs of their education by participating in Co-operative Education.

3.4.2 Academic Regulations

Applying to the Co-operative Education Program

Students must check with the Faculty of Arts Co-op Coordinator for information regarding application deadlines and start dates. Students will be notified of their provisional acceptance to the program by September each year.

Acceptance to the program is dependent upon the student receiving a job placement. Employers will select the student they wish to employ and students are advised that satisfying the entrance requirements does not guarantee a place in the Co-operative option. The department reserves the right to identify and select the best qualified candidates.

Applicants will be interviewed and approved by the Co-op staff and departmental faculty advisors. Final acceptance to the program will be confirmed in writing by the Co-op Office.

International Students planning to complete courses or programs that require work placement must obtain a valid work permit, in addition to maintaining a valid study permit. Please contact the International Centre for further information on the requirements that need to be met in order to apply for Co-op Option work placement.

3.4.3 Entrance to the Co-operative Education Option

To enter a Faculty of Arts Co-op program, a student must be eligible to enter the specific Advanced Degree or Honours Degree Program offered by the department offering a Co-op program. Departments may also stipulate additional requirements for entering the Co-op option related to their program. See sections 3.2.2, 3.3.2, and the specific departmental calendar entry for information regarding entering the Bachelor of Arts Advanced and Honours degrees, including any related Co-operative Education options.

The Co-operative Education option is not available to students pursuing the three-year Bachelor of Arts General Degree or Bachelor of Arts Integrated Studies Degree.

The normal point of entry to a Faculty of Arts Co-op program is following the completion of second year. Students must have completed at least 48 credit hours in order to be eligible to enter Arts Co-op.

Students are required to complete an application form, available in the Faculty of Arts Co-op Coordinator's office. Students are also required to register in the appropriate Co-op courses and pay the applicable course and administrative fees prior to beginning their work placement. Normally, no portion of the administration fee will be refunded.

3.4.4 Continuation in the Co-operative Education Option

Academic Term Requirements

All performance regulations governing Faculty of Arts degree programs apply to students in programs with Co-operative Education options. Departments may also stipulate additional requirements for continuing in the Co-op option related to their program. See sections 3.2.3, 3.3.3, and the specific departmental calendar entry for information regarding continuing in the Bachelor of Arts Advanced and Honours degrees, including the related Co-op options.

The coursework requirements of the different Co-operative education options are equivalent to the coursework requirements outlined in each Advanced or Honours degree program offering Co-op as an option.

Each work term is assigned one (1) credit hour. The combination of the minimum 3 employment terms is equal to one 3 credit hour course for use toward the Bachelor of Arts degree.

Course Load Expectations

It is recommended that students in a Co-op option maintain full time status (min. 9 credit hours per academic term) when not completing a work term placement.

Employment Term Requirements

Number and Length of Terms

All Co-operative Options will include a minimum of 12 months spent in employment terms with a Department and Faculty approved employer. Normally each employment term will be completed with a single employer.

Limits on Coursework While Completing a Work Term

While completing a work term, students are not permitted to take more than one course at a time.

Grading of Work Terms

Co-operative Option students are required to submit at least three written employment reports on their employment term activities. These reports are due at times designated by the student's department and the Faculty of Arts Co-op Coordinator.

Co-operative Option work term reports are graded as Pass/Fail. In order to remain in the Co-operative Option, students must obtain a grade of "Pass" for each term work report. Each department will provide students with instructions regarding the content and format requirements of the employment reports.

Unsatisfactory Performance

Indications of unsatisfactory performance by a student in an employment term will be thoroughly investigated by the student's department and the Faculty of Arts Co-op Coordinator. If the investigation finds that benefits from further professional training are questionable, the student may be required to withdraw from the Co-operative Option. The student would then be eligible to enter the regular Advanced or Honours program, provided the student meets the minimum academic requirements of the target program.

Schedule and Sequence

The Co-operative option consists of both academic terms and work terms. The sequence of academic terms and work terms will be variable to suit the needs of each department. In order to satisfy course and program requirements, timetables may differ from the regular program. Except where stipulated by specific Faculty and Departmental regulations related to the different Co-operative Education options, students working toward the completion of Co-op will be evaluated and assessed in the same

manner as regular students and all rules and regulations of the Faculty of Arts continue to apply to students in the Co-operative Education option. Students must be aware of terms when required courses may or may not be offered and plan their timetables accordingly.

Students are expected to follow the academic/employment term sequence defined by their department, from entry to completion.

Withdrawal from the Co-operative Education Option

Students may be required to withdraw from the program for any of the following reasons:

- Failure to maintain the minimum academic requirements set out by the department offering Co-operative Education;
- Failure to maintain the minimum academic requirements of the Faculty of Arts degree they are pursuing (Advanced or Honours);
- Unsatisfactory performance in the workplace during an employment term; or,
- Any violation of the University of Manitoba Academic Integrity regulations, in any course.

Students who wish to withdraw voluntarily from the Co-op Program may do so in writing to the Faculty of Arts Co-op Coordinator prior to:

- participating in the recruitment period (applications and/or interviews);
- accepting a position for a work term placement;
- the VW deadline for the term in question.

A student who selects, or is required, to withdraw after participating in the recruitment period or after accepting a position with an employer for a work term placement without written approval of the Co-op Coordinator will have the following notation placed on their transcript: "Required to Withdraw from the Co-operative Education Option"

3.4.5 Graduation Requirements of the Co-operative Education Option

The Bachelor of Arts Advanced and Honours degrees are comprised of 120 credit hours. Students who intend to complete the Co-op Option must also successfully complete a minimum of three, four-month work term placements. Each work term is assigned one (1) credit hour. The combination of the minimum three employment terms is equal to one, three credit hour course for use toward the requirements of the Bachelor of Arts degree.

Work-term credit hours may only be used toward programs offering a Co-operative Education Option.

Except where stipulated by specific Faculty and Departmental regulations related to the various Co-operative Education options, students working toward the completion of Co-op will be evaluated and assessed in the same manner as regular students and all rules and regulations of the Faculty of Arts continue to apply to students in the Co-operative Education Option.

3.5 Bachelor of Arts Degree Program Requirements Chart

| GENERAL DEGREE PROGRAM (90 Credit Hours) | ADVANCED DEGREE PROGRAM (120 Credit Hours) | HONOURS DEGREE PROGRAM (120 Credit Hours) |
|--|--|---|
| REQUIREMENT 1: Major(s) or Honours (See Section 8 for Major and Honours requirements) | | |

| | | |
|---|---|---|
| - minimum 30 credit hours - grade point average of 2.00 on all courses taken for purposes of satisfying the Major | - Single Advanced Major: minimum 48 credit hours (some departments require more) - Double Advanced Major: minimum 42 credit hours - grade point average of 2.00 on all courses taken for purposes of satisfying the Major | - Single Honours: varies by Honours subject field - Double Honours: varies by Honours subject field(s) |
| REQUIREMENT 2: Minor (See Section 8 for Minor requirements) | | |
| - minimum 18 credit hours; except when Major is Global Political Economy or for students in a Double General Major Program | - minimum 18 credit hours; except when Major is Global Political Economy or for students in a Double Advanced Major Program | - optional Minor (see note in Section 3.3.4) |
| REQUIREMENT 3: Options | | |
| - minimum 30 credit hours outside student's chosen Major(s) and Minor - minimum 12 credit hours from the Major and/or Minor or other subjects | - Single Advanced Major: minimum 42 credit hours outside student's chosen Major and Minor - Single Advanced Major: minimum 12 credit hours from the Major and/or Minor or other subjects - Double Advanced Major: minimum 36 credit hours outside student's chosen Majors | Single Honours: ancillary options: minimum 24 to 36 credit hours over years 2, 3, and 4 Double Honours: ancillary options: minimum 6 credit hours over years 2, 3, and 4 |
| Within the above 3 requirements, students must also satisfy the following requirements. Note: a course may satisfy more than one requirement. | | |
| REQUIREMENT 4: Written English and Math | | |
| - Written English and Math Requirement (minimum 3 credit hours in each) | - Written English and Math Requirement (minimum 3 credit hours in each) | - Written English and Math Requirement (minimum 3 credit hours in each) |
| REQUIREMENT 5: Humanities Requirement (See Section 5) | | |
| - 6 credit hours from subjects identified as Humanities | - 6 credit hours from subjects identified as Humanities | - 6 credit hours from subjects identified as Humanities |
| REQUIREMENT 6: Social Science Requirement (See Section 5) | | |
| - 6 credit hours from subjects identified as Social Sciences | - 6 credit hours from subjects identified as Social Sciences | - 6 credit hours from subjects identified as Social Sciences |
| REQUIREMENT 7: Science Requirement (See Section 5) | | |
| - 6 credit hours of coursework that satisfies the Science requirement (see Section 5.1.1 for a list of courses that satisfy the Bachelor of Arts Science requirement) | - 6 credit hours of coursework that satisfies the Science requirement (see Section 5.1.1 for a list of courses that satisfy the Bachelor of Arts Science requirement) | - 6 credit hours of coursework that satisfies the Science requirement (see Section 5.1.1 for a list of courses that satisfy the Bachelor of Arts Science requirement) |

| REQUIREMENT 8: General Requirements | | |
|--|---|--|
| - 60 credit hours of courses must be taken from courses taught by the Faculty of Arts (may include 24 credit hours of Mathematics or Art History courses) | - 81 credit hours of courses must be taken from courses taught by the Faculty of Arts (may include 36 credit hours of Mathematics or Art History courses) | - 6 credit hours (c.h.) in each of 5 subject fields (e.g., 6 c.h. Psychology, 6 c.h. Economics, 6 c.h. Computer Science, 6 c.h. French, 6 c.h. Women's and Gender Studies) |
| - 30 credit hours must be at the 2000 level or higher | - 42 credit hours must be at the 2000 level or higher | |
| - 6 credit hours (c.h.) in each of 5 subject fields (e.g., 6 c.h. Psychology, 6 c.h. Economics, 6 c.h. Computer Science, 6 c.h. French, 6 c.h. Women's and Gender Studies) | - 6 credit hours (c.h.) in each of 5 subject fields (e.g., 6 c.h. Psychology, 6 c.h. Economics, 6 c.h. Computer Science, 6 c.h. French, 6 c.h. Women's and Gender Studies) | |
| REQUIREMENT 9: Residency Requirements | | |
| - Degree: 48 credit hours or the final 30 credit hours must be taken at the University of Manitoba | - Degree: 60 credit hours must be taken at the University of Manitoba | - Degree: 60 credit hours must be taken at the University of Manitoba |
| - Major(s): 18 credit hours at the University of Manitoba | - Single Advanced Major: <ul style="list-style-type: none"> 30 credit hours at the University of Manitoba on a Single Advanced Major requiring 48 to 57 credit hours; or 36 credit hours at the University of Manitoba on a Single Advanced Major requiring more than 57 credit hours | - Honours subject(s): <ul style="list-style-type: none"> 33 credit hours at the University of Manitoba on single Honours requiring 54 to 69 credit hours; or 39 credit hours at the University of Manitoba on single Honours requiring more than 69 credit hours; or 24 credit hours at the University of Manitoba on Double or Joint Honours requiring 42 to 45 credit hours; or 21 credit hours at the University of Manitoba on Double or Joint Honours requiring less than 42 credit hours; or 33 credit hours at the University of Manitoba on |
| | - Double Advanced Major: 27 credit hours at the University of Manitoba on a Double Advanced Major requiring 42 credit hours | |

| | | Double or Joint Honours requiring more than 45 credit hours |
|--|---|---|
| REQUIREMENT 10: Graduating Grade Point Average (GPA) | | |
| - 2.00 grade point average on 90 credit hours of passed coursework offered for degree credit | - 2.00 grade point average on 120 credit hours of passed coursework offered for degree credit | - 3.00 grade point average on total passed credit hours offered for degree credit |

SECTION 4: Admission Requirements and Basic Faculty Regulations for the B.A. Integrated Studies (B.A.I.S.) Degree Program

4.1 General Purpose

The Bachelor of Arts Integrated Studies is a 90 credit hour degree program geared to serve working adults who have completed some post secondary education. The degree requires areas of Concentration rather than the traditional Major/Minor requirement, providing a more flexible path for degree completion but also ensuring academic rigor (e.g., appropriate writing and quantitative skills, breadth requirements, and an appropriate percentage of upper level courses).

4.2 Admission Requirements for the B.A.I.S. Degree Program

Students must complete one of the following:

- 1) Successful completion of a minimum of 24 credit hours of university level coursework at the University of Manitoba or elsewhere and includes: University of Manitoba certificate or diploma programs and/or diploma programs completed at another accredited post-secondary institution. A minimum cumulative grade point average of 2.0 is required where university courses are used as the basis of admission. Students who have not achieved a 2.0 cumulative grade point average may be eligible for special consideration. A minimum cumulative grade point average of 2.5 or C+ is required on a University of Manitoba certificate or diploma program.
- 2) Be eligible for admission as a "mature" student.

Students who have exceeded 36 credit hours of "F" grades are not admissible until a period of suspension has been served. Students may contact the Faculty of Arts for further information and advice.

Applicants must also submit the following with their application for admission:

- a) Supplementary Application form
- b) A resumé providing evidence of normally three (3) years of full-time workplace experience (i.e., ≥ 30 hours/week) preferably with the same employer. [Applicants who do not strictly fall into this definition of workplace experience may request special consideration from the B.A. Integrated Studies Admissions Committee.]

Students who hold a first undergraduate degree in the Faculty of Arts may not apply for the B.A. Integrated Studies Degree Program.

For detailed admission information, including required averages for admission and application deadline dates, please refer to the Faculty of Arts Applicant Information Brochure at http://www.umanitoba.ca/student/admissions/media/arts_bulletin.pdf.

4.3 General Structure of the B.A.I.S. Degree Program

The Bachelor of Arts Integrated Studies Program is comprised of 90 credit hours divided into three components: Foundation Courses (21 credit hours), Area of Concentration (18 credit hours) and options (51 credit hours).

Foundation Courses

| | | |
|--|---|----|
| ARTS 1110 | Introduction to University | 3 |
| EDUA 1560 | Adult Learning and Development | 3 |
| SWRK 2080 or ENGL 0930 | Interpersonal Communication Skills English Composition | 3 |
| A three credit hour course that satisfies the mathematics requirement ¹ | | 3 |
| ARTS 1160 | Leadership: An Interdisciplinary Approach | 3 |
| Six credit hours of introductory courses from the Departments of Psychology or Sociology or Anthropology or Political Studies ² | | 6 |
| Total credit hours | | 21 |

Notes:

¹ See Appendix A, List of Approved Written English and Mathematics courses found under the heading General Academic Regulations and Requirements in the Undergraduate Calendar.

² Students who wish to take courses beyond the 1000 level in these departments should consult the course descriptions to ensure the necessary prerequisites are satisfied.

Students may not substitute another course for a Foundation course.

Area of Concentration

Each student must complete the course requirements of at least one Concentration. For purposes of this degree program all Minor programs offered by the Faculty of Arts will be referred to as Concentrations. All Concentrations consist of 18 credit hours of required or specified courses. There are some Concentrations that are not offered as Minors. For a listing of the Minors and Concentrations offered by the respective departments in the Faculty of Arts, please see Section 1.2 and also refer to the departmental entries in Section 8 and 9. For entry into most Concentrations, the faculty requirement is that the student must have a grade of "C" or better in the prerequisite course(s).

A student in the B.A. Integrated Studies Degree Program may also fulfill the requirements of a Concentration by completing the specified requirements of Minor programs offered by other Faculties and Schools providing the Minor consists of a minimum of 18 credit hours. A Minor program offered by other Faculties/Schools will be referred to as a Concentration for purposes of the B.A. Integrated Studies Degree Program. For details on such Concentration (Minor) programs please refer to the relevant Faculty/School's chapter in the Academic Calendar.

A Concentration may be declared once the prerequisite has been satisfied. A course that satisfies the Foundation requirement of the program cannot also be used towards a Concentration. An alternate course/credit hours within the Concentration field must be completed. For example, if PSYC 1200 (6) is taken to satisfy the Foundation requirement, and the student has chosen to complete a Psychology Concentration, then PSYC 1200 will not form part of the 18 credit hours required for the Concentration. The student will complete an additional 6 credit hours of other Psychology courses in lieu of PSYC 1200.

Students who wish to take additional courses from a second Concentration may do so within their elective component. Students who complete the requirements of a second Concentration may submit a written request to the Dean's Office to have a second Concentration recorded on their transcript.

Options

Students must complete 51 credit hours of options outside the Foundation courses and those courses used to satisfy an area of Concentration.

4.4 Requirements for Continuing in the B.A.I.S. Degree Program

- a) By the time students complete 60 credit hours, they must normally have three credit hours in each of five different subject fields.
- b) Students must by the time they have completed 60 credit hours have successfully completed or be registered for at least three credit hours in a course with significant content in written English and at least three credit hours in a course in mathematics. (See the Chapter in the Undergraduate Calendar entitled General Academic Regulations and Requirements, Appendix A: List of Approved Written English and Mathematics Courses, or search Aurora Student for the course attributes "Written English Requirement" or "Mathematics Requirement.")
- c) Students must meet the minimum performance level as outlined in Section 5.10.

4.5 Eight Faculty Requirements for Graduating with a B.A.I.S. Degree

- 1) A student must successfully complete 90 credit hours of coursework acceptable for credit in the Faculty of Arts (see Section 5.2) with a minimum grade point average of 2.00 (i.e. "C" or better) on these 90 credit hours.

The 90 credit hours of passed coursework must include the remaining seven faculty requirements:

- 2) At least six credit hours from subject fields designated Humanities, at least six credit hours from subject fields designated Social Science, and at least six credit hours from the list of courses that satisfy the Science requirement (see Section 5.1.1).
- 3) At least three credit hours completed in each of five different subject fields (as listed in Section 5.1.1). In addition, a subject field may also satisfy other B.A.I.S requirements such as Humanities, or Social Sciences, or Sciences, or Mathematics, or Written English.
- 4) Concentration: 18 credit hours which constitute a Concentration in one of the subject fields approved by the Faculty of Arts (see Section 5.1.1) or by other Faculties and Schools. A Concentration may be declared once the prerequisite has been satisfied. A student who has 18 credit hours in more than one subject field can declare only one of them as a Concentration. No course can be used to satisfy both a Foundation requirement and the Concentration requirement. A student who has completed the requirements for a second Concentration may apply at the Faculty of Arts General Office to have the second Concentration recorded on their transcript.
- 5) At least 51 credit hours of options which are taken and successfully completed in subject fields outside the Foundation and Concentration courses.
- 6) At least 30 credit hours that have been taught by the Faculty of Arts (may include up to 12 credit hours from the Department of Mathematics or Art History courses considered as Humanities, see Section 5.1.1) or which have been accepted on transfer as equivalent to courses taught by the Faculty of Arts.
- 7) At least 15 credit hours numbered at or above the 2000 level plus 6 credit hours at or above the 3000 level.
- 8) Residency Requirement: A student in the B.A. Integrated Studies degree program must complete University of Manitoba residency requirements (see Section 5.3 for details).

4.6 Additional Faculty Regulations and Policies

Students in the B.A. Integrated Studies Degree Program are subject to the regulations and policies found in Section 5, Section 6, Section 7, Section 8 and Section 9.

SECTION 5: Additional Faculty Regulations and Policies Applicable to All Degree Programs in the Faculty of Arts

5.1 Recognized Subject Fields

5.1.1 Five-subject Field Requirement and Humanities/Social Science/Science Requirement

Faculties and Schools offer a number of courses covering a variety of subjects. To satisfy the subject field requirement for any B.A. Degree (with the exception of the B.A. Integrated Studies) a student must complete 6 credit hours in each of 5 different course subjects. For example: 6 credit hours in Psychology, plus 6 credit hours in German, plus 6 credit hours in Mathematics, plus 6 credit hours in Music, plus 6 credit hours in Biological Sciences. Students in the B.A. Integrated Studies Degree Program must complete 3 credit hours in each of 5 different course subjects.

Each course subject in the Faculty of Arts has been further categorized as either a Humanities or Social Science. All courses offered by the Faculty of Science and select courses from other faculties will satisfy the Bachelor of Arts Science requirement. Therefore a course may satisfy both the subject field requirement as well as the requirement for the Humanities/Social Science/Science.

Listed below are the categories of Humanities, Social Sciences, Sciences and the course subjects that belong to each category.

Humanities

- 1) Course subjects taught by the Faculty of Arts that can be used towards the Humanities requirement: Arabic, Asian Studies, Canadian Studies, Catholic Studies, Classical Studies, English (excluding ENGL 0930, ENGL 0940, ENGL 2000, ENGL 2001), Film Studies, French, German, Greek, Hebrew, History, Hungarian, Icelandic, Italian, Judaic Civilization, Latin, Native Languages, Native Studies, Philosophy, Polish, Portuguese, Religion, Russian, Spanish, Theatre, Ukrainian, Ukrainian Canadian Heritage Studies, and Yiddish. In addition the following courses may be used: American Sign Language ASLL 1000; Global Political Economy GPE 3700; Women's and Gender Studies WOMN 1500, WOMN 2530, WOMN 2600, WOMN 2620, WOMN 2630, WOMN 3110, WOMN 3120 and WOMN 3620.
- 2) Course subjects offered by other units which can be used towards the Humanities requirement: Art History (i.e. all courses listed with course prefix FAAH). (For details on Art History courses, see Section 9).

Social Sciences

- 3) Course subjects taught by the Faculty of Arts that can be used towards the Social Science requirement: Anthropology, Economics, Global Political Economy courses GPE 1700, GPE 2700, GPE 4700, Labour Studies, Linguistics, Political Studies, Psychology, and Sociology. In addition the following courses may be used: Women's and Gender Studies WOMN 1600, WOMN 2500, WOMN 2560, WOMN 2610, WOMN 2640, WOMN 2650, WOMN 3100, WOMN 3130, WOMN 3520, WOMN 3550, WOMN 3560 and Others ARTS 1160.

Sciences

- 4) Students may complete any combination of the courses listed below adding up to six credit hours to satisfy the Bachelor of Arts Science requirement.

Faculty of Science

All courses offered by the Faculty of Science or courses taught by other faculties that can be used toward the Bachelor of Arts Science requirement:

Faculty of Agricultural and Food Sciences

AGRI 1500, AGRI 1510

ENTM 1000, ENTM 2050

PLNT 1000, PLNT 2500

SOIL 3060, SOIL 3520, SOIL 3600

Clayton H. Riddell Faculty of Environment, Earth, and Resources

ENVR 1000, ENVR 2000

GEOG 1290, GEOG 2200, GEOG 2272, GEOG 2520, GEOG 2540, GEOG 2541, GEOG 2550, GEOG 2700, GEOG 3390

GEOL 1340, GEOL 1400, GEOL 1410, GEOL 1420, GEOL 2390, GEOL 2440, GEOL 2500, GEOL 2570, GEOL 3310

Faculty of Engineering

ENG 1440, ENG 1450, ENG 1460

For course titles and descriptions see the relevant faculty entries in this Calendar.

5.1.2 Major, Minor (Concentration) or Honours Programs

- 1) The Faculty of Arts offers various Majors, Minors (Concentrations) and Honours programs. For a listing of the programs see Section 1.2 and also refer to the respective departmental entries in Section 8 and 9.
- 2) Major and Minor (Concentration) programs offered by other Faculties or Schools are listed in Section 9. These include a General Major, Advanced Major and Minor (Concentration) offered by the Department of Mathematics, a Minor in Business offered by the Faculty of Management/I.H. Asper School of Business, and a General Major and Minor (Concentration) in Art History offered by the School of Art.

An Arts student may declare a Minor (Concentration) (dependent on the student's program) offered by any Faculty and School providing the Minor (Concentration) program consists of a minimum of 18 credit hours. For details on those Minor (Concentration) programs please refer to the relevant Faculty/ School's chapter in this Calendar.

5.2 Courses Acceptable for Credit in the Faculty of Arts

In addition to all courses offered by the Faculty of Arts there are two other categories of courses acceptable for credit in the Faculty of Arts:

5.2.1 Courses Offered by Other Faculties or Schools at the University of Manitoba:

Effective September 2007, all degree credit courses offered by other Faculties or Schools at the University of Manitoba are acceptable for credit in Arts (excludes Pass/Fail courses).

If a student was registered in another faculty or school within the University of Manitoba prior to registering in the Faculty of Arts, all courses in which the student received a final grade will be treated in the same way as they would have been had they been taken by a student already registered in the Faculty of Arts. That is, all of these courses will count in determining eligibility for admission to Arts in accordance with Sections 2.1, 2.2 and 5.10 and they will all be taken into account when determining the student's grade point averages in accordance with Sections 5.8 and 5.10. In addition, they will all count towards the minimum number of credit hours required for graduating, provided the student received a passing grade in each of them, and the courses did not conflict with some other graduation or continuing regulation (such as the Residency Requirement).

5.2.2 Courses Offered at Other Universities and Colleges:

Effective September 2007, all courses offered at other universities and colleges which are evaluated as equivalent to University of Manitoba courses (excludes Pass/Fail courses) will be used when determining eligibility for admission and transfer credit.

There are two groups of courses that are taken at other universities or colleges and which can be used for credit in the Faculty of Arts at the University of Manitoba, namely: a) those taken by students who are already registered in the Faculty of Arts at the University of Manitoba, and b) those taken by students prior to transferring to the Faculty of Arts at the University of Manitoba.

- a) Students who are already registered in the Faculty of Arts at the University of Manitoba, and who wish to take courses at another university or college to count towards their University of Manitoba degree are required to obtain a Letter of Permission from the Registrar's Office prior to registering at that other institution; see the chapter, General Academic Regulations and Requirements. The Letter of Permission will not be approved for a student who is in academic jeopardy or on academic suspension. As of September 1999 grades earned in courses at other universities are taken into account in the cumulative hours when determining the Grade Point Averages at the

University of Manitoba. Grades earned at other universities will not be used in determining eligibility for awards (see Section 5.11 and 5.12 for details).

- b) All completed courses that are deemed acceptable for credit in any degree program at the University of Manitoba (excludes Pass/Fail courses) which were taken by a student registered at another university or college prior to transferring to the Faculty of Arts, will be used when determining eligibility for admission and transfer credit. That is, all of these courses will count in determining admissibility, in accordance with Sections 2.1, 2.2 and 5.10.

As of September 1999 the applicable courses (credits and attempts) in both a) and b) are included on the University of Manitoba record, the external courses are counted as attempts and external grades are taken into account when determining the University of Manitoba grade point average as well as count towards the maximum number of "F" grades permitted in an Arts degree (see Section 5.10). Grades earned at other universities will not be used in determining eligibility for awards (see Section 5.11 and 5.12 for details). There is no limit on attempts in any degree program.

Courses completed at institutions external to the University of Manitoba taken more than 10 years prior to the point of admission will not be considered for transfer credit, except in the case of students entering the B.A.I.S. program.

Students who wish to request a review or reassessment of transfer credit must do so within eight months of the initial determination of transfer of credit to the University of Manitoba.

5.3 Residency Requirement

As indicated in Section 3 and Section 4, each of the four undergraduate degree programs has a residency requirement which requires that a minimum number of credit hours must be taken at the University of Manitoba itself in order to qualify for the degree. Students admitted to the Faculty of Arts B.A. General, Advanced and Honours Degree Programs will also be required to satisfy a residency requirement on the Major(s), Advanced Major(s) or Honours subject(s) in addition to the residency requirement on the degree. Similarly students admitted to the B.A. Integrated Studies Degree Program will be required to satisfy a residency requirement on the Concentration in addition to a residency requirement on the degree.

1) B.A. General Degree

- a) Degree: There are two ways in which the Residency Requirement for the B.A. General Degree may be satisfied: either by successfully completing at the University of Manitoba no fewer than 48 credit hours of the required 90 credit hours (these 48 credit hours may be taken at various points in the student's career); or by successfully completing at the University of Manitoba no fewer than the last 30 credit hours of the required 90 credit hours.
- b) Major: A minimum of 18 credit hours of the 30 credit hours required for the Major must be successfully completed at the University of Manitoba or through an approved University of Manitoba Exchange Program.

2) B.A. Advanced Degree

- a) Degree: To receive the B.A. Advanced Degree, the student must successfully complete at least 60 credit hours of the required 120 credit hours at the University of Manitoba.
- b) Single and Double Advanced Majors: Students must successfully complete at the University of Manitoba or through an approved University of Manitoba exchange program the hours of coursework in their Major program as noted below:
 - In a Single Advanced Major requiring 48 to 57 credit hours, 30 credit hours must be completed at the University of Manitoba or

through an approved University of Manitoba Exchange Program.

- In a Single Advanced Major requiring more than 57 credit hours, 36 credit hours must be completed at the University of Manitoba or through an approved University of Manitoba Exchange Program.
- In a Double Advanced Major requiring 42 credit hours, 27 credit hours must be completed at the University of Manitoba or through an approved University of Manitoba Exchange Program.

3) B.A. Honours Degree

- 1) Degree: In order to graduate with a B.A. Honours Degree, students must take and successfully complete the hours of coursework offered by the University of Manitoba as noted below:
 - In Honours programs requiring 108 credit hours, 48 credit hours must be from acceptable courses offered by the University of Manitoba;
 - In Honours programs requiring 114 credit hours, 54 credit hours must be from acceptable courses offered by the University of Manitoba;
 - In Honours programs requiring 120 credit hours, 60 credit hours must be from acceptable courses offered by the University of Manitoba.

Note: Effective September 2015, all Honours programs will require 120 credit hours.

- 2) Honours Subject(s): Students must successfully complete at the University of Manitoba or through an approved University of Manitoba exchange program the hours of coursework in their Honours subject(s) as noted below:
 - In a single Honours subject requiring 54 to 69 credit hours, 33 credit hours must be completed in the Honours subject.
 - In a single Honours subject requiring more than 69 credit hours, 39 credit hours must be completed in the Honours subject.
 - In a double or joint Honours subject requiring 42 to 45 credit hours in one Honours subject, 24 credit hours must be completed in that Honours subject.
 - In a double or joint Honours subject requiring less than 42 credit hours in one Honours subject, 21 credit hours must be completed in that Honours subject.
 - In a double or joint Honours subject requiring more than 45 credit hours in one Honours subject, 33 credit hours must be completed in that Honours subject.
- 3) Once admitted to an Honours program, students are expected to take all their courses at the University of Manitoba. For information on exceptions to this requirement, the student should consult the Faculty of Arts General Office.

4) B.A. Integrated Studies Degree

- a) Degree: To receive the B.A. Integrated Studies Degree, the student must successfully complete at the University of Manitoba no fewer than 36 credit hours of the required 90 credit hours (these 36 credit hours may be taken at various points in the student's career).
- b) Concentration(s): A minimum of 9 credit hours of the 18 credit hours required for the Concentration must be successfully completed at the University of Manitoba or through an approved University of Manitoba Exchange Program.

Residency Requirement Université de Saint-Boniface:

In order to satisfy the University of Manitoba, Faculty of Arts residency requirement, students who transfer from Université de Saint-Boniface must complete the following minimum hours at the Fort Garry Campus.

- 1) In order to receive the B.A. (General) or (Advanced) Degree, the student must successfully complete at least 30 credit hours at the Fort Garry campus.
- 2) In order to receive the B.A. (Honours) Degree, the student must successfully complete the hours of coursework offered at the Fort Garry campus as noted below:
 - In Honours programs requiring 108 credit hours, 24 credit hours of acceptable coursework must be completed at the Fort Garry campus.
 - In Honours programs requiring 114 credit hours, 24 credit hours of acceptable coursework must be completed at the Fort Garry campus.
 - In Honours programs requiring 120 credit hours, 30 credit hours of acceptable coursework must be completed at the Fort Garry campus.

Note: Effective 2015, all Honours programs will require 120 credit hours.

5.4 Year-of-Study Equivalents

A student's progress towards a degree is measured in terms of credit hours passed rather than years of study completed. The following table may be used to determine the year equivalent.

| Year Equivalent | Credit Hours Passed (General/Integrated Studies Degree) | Credit Hours Passed (Advanced/Honours Degree) |
|-----------------|---|---|
| 1 | fewer than 24 credit hours | fewer than 24 credit hours |
| 2 | 24 credit hours to fewer than 54 credit hours | 24 credit hours to fewer than 54 credit hours |
| 3 | 54 credit hours or more | 54 credit hours to less than 84 credit hours |
| 4 | not applicable | 84 credit hours or more |

5.5 Maximum Number of Courses During a Term

Normally a student may attempt a maximum of 15 credit hours during a Fall or Winter term or a maximum of 18 credit hours during the Summer Session. If a student has taken the maximum credit hours in the previous term and has obtained a degree grade point average of 2.75 and is in good standing, they may apply at the Faculty of Arts General Office to be allowed to take 3 additional credit hours per term.

5.6 Prerequisite, Corequisite, and Course Availability

Prerequisite: Minimum grades of "C" are required in all courses listed as prerequisites, except as otherwise noted in the course descriptions published in each department and program section of this chapter. If a course is a prerequisite for a second course, the prerequisite must be met in order to continue in the second course.

Corequisite: Some course descriptions will indicate that a specific course is a pre- or corequisite for the course in which you wish to register. If you have not previously taken the specific course, you may register for it in the same term.

Course availability: Where a course identifies another course as a corequisite, both courses must be taken at the same time.

Course availability: Not all courses listed in this Calendar are offered every year. The course(s) being offered for the current terms are available for review by accessing the Class Schedule in Aurora.

5.7 Challenge for Credit

Some departments in the Faculty of Arts offer courses by means of challenge for credit. Since the courses offered in this manner may vary from year to year, students interested in this method of attaining credit should consult the Challenge for Credit section in the Faculty of Arts Registration Information located on the Faculty of Arts website. The Academic Schedule in the front of this Calendar contains the relevant registration deadline dates appropriate to challenge for credit.

5.8 Repeating a Course

Effective 2018 Winter Term - Limited Access Policy in Effect

Limited Access is a registration rule that allows students who have never before completed or voluntarily withdrawn from a course (or its equivalent) the opportunity to register for the course before students who are repeating or have previously withdrawn from the course in question.

If a student has previously taken a course and received a final grade, or voluntarily withdrawn from the course (VW)*, any future attempt to take that course or its equivalent is considered a repeated course.

*A previous VW is only considered a repeat if you withdrew in Winter 2017 or later.

Effective Winter 2018, Limited Access will prevent a student from registering or waitlisting for a course (or equivalent) being repeated until the "Limited Access Term Expiry Date" has passed.

Limited Access applies for three consecutive terms following the term that the course in question was last completed or voluntarily withdrawn (VW).

During these three terms of Limited Access, a student may register to repeat a course, without permission, only when the Limited Access Term Expiry Date has passed.

Once the three terms of Limited Access has expired, any student wishing to repeat a course will need to request permission to do so from the Faculty of Arts General Office.

Students who wish to repeat a course for which they have obtained a grade of "C" or better are encouraged to discuss their choice to do so with an Arts Academic Advisor prior to registration.

- All completed courses will appear on the student's transcript and will be used to calculate the student's attempted hours.
- Repeating a course will not remove the original course or grade from the transcript.
- All courses with "F" grades that are repeated count towards the limit of "F" grades permitted in an Arts degree as outlined in Section 5.10.

5.9 Statute of Limitations

Students who have not been registered at the University of Manitoba (or any other post-secondary institution) for a period of five years or longer immediately preceding an admission to Arts may submit a written appeal to the General Office to be allowed to "start afresh" a Faculty of Arts degree. If the appeal is granted, all courses listed on the University of Manitoba record will remain but all previous work will not count/apply towards satisfying degree requirements nor affect the degree GPA calculation. The following notation will appear under the term of readmission:

"Having discontinued attendance at post-secondary institutions for a period of five years or more, this student has been permitted to start afresh on recommendation of the Dean. All previous credits have been forfeited."

5.10 Maximum Number of "F" Grades Permitted on Courses Acceptable for Credit in Arts

Each student in the Faculty of Arts will be placed on academic suspension for one year despite evidence of improved performance if they have more than 36 credit hours of "F" grades.

Following a one year suspension, the student may return upon application to the Faculty of Arts General Office by selecting one of the following irreversible options:

- to continue with no possibility of further "F" grades. Any further "F" grades will result in academic suspension for two years. (Following the two year suspension, the student may apply to the Faculty of Arts General Office to return to start afresh.)

Or

- start afresh, with their previous work not counting towards satisfying degree requirements.

(In either case this does not mean that the previous coursework will be removed from the student history or transcript.)

5.11 Dean's Honour List and Graduating with Distinction or First Class Honours

Dean's Honour List

To qualify for this list a student must be registered in one of the four degree programs offered by the Faculty of Arts and complete at least 12 credit hours offered by the University of Manitoba during a term and attain a minimum term grade point average of 3.75. The notation: "Dean's Honour List", will be included on the student's transcript specific to that term.

Degree with Distinction (Bachelor of Arts Integrated Studies and 3-Year General Degree)

To obtain a Bachelor of Arts General or a Bachelor of Arts Integrated Studies "Degree with Distinction" a student must achieve a final minimum Degree Grade Point average of 3.80, and must complete a minimum of 60 credit hours at the University of Manitoba. The term "Degree with Distinction" will appear on the student's parchment and the student's transcript of marks.

Degree with Distinction (Bachelor of Arts Advanced Degree)

To obtain a Bachelor of Arts Advanced "Degree with Distinction" a student must achieve a final minimum Degree Grade Point average of 3.80, and must complete a minimum of 90 credit hours at the University of Manitoba. The term "Degree with Distinction" will appear on the student's parchment and the student's transcript of marks.

First Class Honours (Honours Degree Only)

To obtain a Bachelor of Arts Honours Degree with "First Class Honours", a student must achieve a final minimum Degree Grade Point average of 3.80, and must complete a minimum of 90 credit hours at the University of Manitoba. The term "First Class Honours" will appear on the student's parchment and the student's transcript of marks.

5.12 University Gold Medal and Program Medals

Gold Medal

The Faculty of Arts will award the University Gold Medal to the student graduating with an Arts degree who:

- has the highest grade point average of all graduating students on all courses creditable in Arts attempted at the University of Manitoba over the last two Fall/Winter terms prior to graduation (with each

Fall/Winter consisting of a minimum 24 credit hours completed at the University of Manitoba) including any courses taken in the Summer Session between the last two Fall/Winter terms and

- 2) has a minimum grade point average of 3.85 which is determined on the basis of all courses creditable in Arts attempted in completing the degree, including courses approved on transfer from other faculties/schools at the University of Manitoba.

Students who have up to 30 hours of external transfer credit (including failed courses) would be eligible providing they attain the minimum grade point average of 3.85 on all courses completed at the University of Manitoba which are acceptable for credit in Arts.

The Gold Medal winner is ineligible for Faculty of Arts program medals.

For specific details on the tiebreaking mechanism, contact the Faculty of Arts General Office.

Program Medals

The Faculty of Arts will award a Program Medal to the student graduating in each of the General, Integrated Studies, Advanced and Honours Degree programs who:

- 1) has the highest grade point average of all graduating students on all courses creditable in Arts attempted at the University of Manitoba over the last two Fall/Winter terms prior to graduation (with each session consisting of a minimum of 24 credit hours completed at the University of Manitoba) including any courses taken in the Summer Session between the last two Fall/Winter terms and
- 2) has a minimum grade point average of 3.75 which is determined on the basis of all courses creditable in Arts attempted in completing the degree, including courses approved on transfer from other faculties/schools at the University of Manitoba.

Students who have up to 30 hours of external transfer credit (including failed courses) are eligible providing they attain the minimum grade point average of 3.75 on courses completed at the University of Manitoba which are acceptable for credit in Arts.

The Gold Medal winner is ineligible for Faculty of Arts Program Medals.

For specific details on the tiebreaking mechanism, contact the Faculty of Arts General Office.

5.13 Evaluation of Undergraduate Student Coursework

A copy of the Faculty of Arts Regulations for the Academic Evaluation of Undergraduate Student Coursework is available to students for perusal in the Faculty of Arts General Office or website. This document includes regulations concerning student evaluation, final examinations and/or term tests, final grades, etc. It should in particular be noted that there are no Supplemental Examinations in the Faculty of Arts. For information on Incomplete Coursework, Deferred Examinations, Debarment, Academic Misconduct, etc., see the chapter General Academic Regulations and Requirements in this Calendar.

5.14 Seeking a B.A. as a Second Degree

Once a Bachelor of Arts degree has been awarded by the University of Manitoba Senate, it cannot be revoked or "turned in" towards another degree.

Students who have completed an undergraduate degree may apply and be admitted to the Faculty of Arts seeking a second undergraduate degree. Students who hold a first degree from the Faculty of Arts may not apply for the B.A. Integrated Studies Degree Program as a second degree.

Students who have graduated with a first undergraduate degree from the University of Manitoba will be allowed to transfer up to 60 credit hours of coursework from their first degree toward a second degree program in the Faculty of Arts. Courses taken in a qualifying program will be considered part of the first degree. Courses extra to the first degree, excluding courses taken in a qualifying program or another awarded degree, diploma or certificate, may be transferred in addition to the 60 credit hours.

Students with first degrees awarded by external institutions will be eligible for up to 60 credit hours of transfer credit providing the degree was awarded and the courses were taken within the 10 year period prior to admission and registration in the Faculty of Arts (see Section 5.2.2).

Once admitted students must satisfy all relevant undergraduate degree requirements except for the Written English and Mathematics requirements.

Students may not be admitted to the Faculty of Arts or complete a Bachelor of Arts Degree while concurrently pursuing a degree in another Faculty or School.

No transfer credit will be awarded to students seeking a third, fourth, etc., degree.

Students cannot obtain a second degree in the same discipline at the same or lower level as any of their previously awarded degree(s).

5.15 Application to Graduate with a B.A. Degree

In order to officially receive a degree in any of the four programs leading to a B.A., students must declare their intention to graduate by the relevant deadline date listed below. This process applies to students in each of the following three categories.

Category 1: Those students currently registered in the Faculty of Arts in either the B.A. General Degree, B.A. Integrated Studies Degree or the B.A. Advanced Degree Program must declare their intention to graduate using Aurora Student.

Those students currently registered in the Faculty of Arts in the B.A. Honours Degree program must declare their intention to graduate at the point of registration for their last set of courses when they complete the Registration Worksheet.

Category 2: Those students currently registered in the Faculty of Arts in either the B.A. Advanced or a B.A. Honours Degree program who decide to revert to the B.A. General Degree Program in order to graduate, must submit a request in writing to graduate to the General Office, Faculty of Arts. For graduation in May, the request must be received by April 30. For graduation in October, the request must be received by September 30. For graduation in February, the request must be received by January 30.

Category 3: Those students previously admitted to and registered in one of the respective degree programs in the Faculty of Arts and who have completed all of the requirements for the degree while registered in the Faculty of Arts, but who are currently registered in another Faculty or School at the University of Manitoba (excluding Extended Education) may submit a request in writing to graduate to the Faculty of Arts General Office.

Deadline Dates to declare expected Graduation Date by Aurora Student:

May Graduation: end of registration revision period for Winter Term

October Graduation: August 1

February Graduation: end of registration revision period for Fall Term

SECTION 6: Student Responsibilities

6.1 Students' Code of Responsibilities

6.1.1 A Community of Scholars

The Faculty of Arts at the University of Manitoba defines itself as a community of scholars, all citizens of which must commit themselves to the advancement of learning, the dissemination of knowledge, and the wellbeing of all its members. Essential to these goals is each individual's commitment to the following values:

The affirmation of the dignity, worth, and equality of all citizens in the community;

The importance of reasoned debate and inquiry in all academic pursuits;

The practise of ethical conduct and personal integrity in all aspects of academic life.

Students who enrol in the Faculty of Arts voluntarily choose to join this community of scholars, and in doing so they accept the responsibilities as well as the benefits of living within it.

The Faculty of Arts offers its students remarkable opportunities for the acquisition of knowledge, the development of skills, and the free exchange of ideas that will shape their future lives. The scholarly community also provides a forum for extracurricular activities, personal growth and social relationships that are equally important to one's sense of fulfilment. This should be an exciting process of discovering new goals, new points of view, and, indeed, a new and better sense of one's ideals and potential. But it is also a process of coming to recognize the value and special nature of the academic community itself.

The dynamic freedom of student life in the Faculty of Arts carries a special obligation that each individual act in such a way as to promote the wellbeing of other members — to accept willingly the categorical imperative of behaving in such a way that, if everyone else did the same, the good of all would prevail. This is a matter of accepting the differences of others, respecting the rights of others, and not abusing the resources that the faculty and the university put at your disposal. It is also a matter of acting honourably in all personal and academic relationships, and not tolerating through diffidence or neglect any violations of such obligations on the part of others. Our common commitment as citizens of the scholarly community will then work to enhance every individual member's experience and likelihood of success. Only with such a commitment from everyone can the Faculty of Arts fulfil its mission at the core of a public institution charged with educating the leaders of tomorrow's society. And only with such a commitment can we make wise use of the public funds for which we are accountable.

6.1.2 Rights and Responsibilities

As a student in the Faculty of Arts you are entitled to the use of all appropriate resources (human and other) for the successful completion of your studies. But you are also responsible for the use of those resources in a manner that is honest, fair and equitable. For example, when you enrol in a course you implicitly accept the terms of a contract whereby the professor is committed to teaching to the best of his/her ability, while you and the other students are committed to learning to the best of yours. Repeated absences, or the neglect of reading or writing assignments, are not just matters of individual concern; because they undermine the effectiveness of discussion for others as well, they are a failure to honour the academic and social contract that is implicitly a part of your membership in this community. Similarly, borrowing a book from the library is a direct commitment to honour the rules and regulations governing the circulation of such material. To damage a library book by writing in it, highlighting, or worse, is not just an act of individual vandalism; it is the wilful partial destruction of a resource that other students (and even other generations

of students) have the right and the need to consult. It is to forget, in other words, that public property is not no one's property; it is everyone's property.

Similar obligations to ethical conduct are an inherent part of all the academic work you do as requirements of your program. Participation in the free exchange of ideas, upon which the scholarly community depends, obligates all members of that community to complete honesty and to adequate documentation of their intellectual debts. Plagiarism, the representing of someone else's words or ideas as your own, or any other form of academic dishonesty such as cheating, is a betrayal not just of individual honour, but of the whole basis of civilized discourse upon which all other members of the community depend.

The Manitoba Code of Human Rights guarantees everyone the right to be free of discrimination on the basis of ancestry, nationality or nation origin, ethnic background or origin, religion or creed, age, sex, including pregnancy, gender determined characteristics, sexual orientation, marital or family status, income, political belief, association or activity and physical or mental disability. The rights and responsibilities of students thus go well beyond the classroom, library, or computer facility. Every student in the Faculty of Arts is at all times entitled to pursue his/her activities and program of study free of any social discrimination, harassment, exploitation or abuse of power on the part of others, staff or students. Consequently, every student also has a reciprocal obligation to act in a similarly ethical fashion toward all other members of the community. In order that we all be fully empowered to take advantage of the pursuit of knowledge, the development of skills and the special opportunities for personal growth offered by the faculty, there must be on everyone's part a commitment to avoid irresponsible behaviour that damages the academic potential or self-esteem of others.

6.1.3 Rules and Regulations

It is the intention of the Faculty of Arts to discourage any conduct that is detrimental to the welfare of the scholarly community and its individual members. In this Undergraduate Calendar there are many regulations governing the expectations and standards of academic work in the faculty, and there are mechanisms of appeal at the department and faculty level for those who feel that the application of these regulations has been unfair or unjust. There are also rules and regulations governing the use of university resources and facilities, and others governing the social conduct of members of the community — for example, a policy on sexual harassment and a policy banning weapons from campus. Any violations of these rules and regulations should be reported to the appropriate administrative agency or authority (e.g., the director of Libraries, the sexual harassment investigation officer or the Security Services). It must be remembered, too, that all federal, provincial and municipal laws (regarding, for example, violence, alcohol, and drugs) are enforced on campus.

There are, however, some kinds of behaviour that fall between these academic and legal concerns, which are nevertheless inappropriate in the context of an academic community. Any disruptive action or physically or verbally aggressive behaviour that serves to threaten or intimidate another member of the community (staff or student) should be immediately reported to the relevant head of department or dean. Persons who are found to have violated the rights of other individuals, or to have subverted the welfare of the academic community, will face disciplinary action, which may include expulsion from the faculty. It is important to recognize, though, that such discipline is always less effective than a common commitment to respect the rights of others.

6.1.4 Conclusion

The foregoing statement of responsibilities applies to all student members of the Faculty of Arts. Faculty members and support staff are governed by a

number of university, Senate and faculty policies that set out similar standards of ethical and professional conduct. This code is meant to give the students in the Faculty of Arts a sense of the relation that exists between their rights and their responsibilities and how these rights and responsibilities in turn sustain the welfare of the whole academic community.

6.2 General Responsibilities

Every effort is made to ensure that students in the Faculty of Arts have access to sound information and individual advice and guidance. Within this context and within the framework of faculty and department requirements indicated above, students are personally responsible for course selection and conforming to regulations regarding continuation in, and graduating from, the four undergraduate programs.

Students should take special care to ensure:

That each time they register that the courses they choose meet all requirements for graduation;

- That the courses they choose meet prerequisite conditions;
- That the courses they choose are not exclusions of, or the equivalent of, other courses already taken;
- The accuracy of their registration records, including all changes; and
- That they have noted and are following all deadlines and procedures published in the Calendar and elsewhere.

A copy of the Policy on Disclosure and Security of Student Academic Records is available for students to read in the Faculty of Arts General Office.

SECTION 7: Special Circumstances and Appeals of Matters Regarding Academic Regulations

Students should promptly consult the Faculty of Arts General Office when special circumstances warrant consideration of exceptions to regulations. In addition, the Academic Regulations Appeals Committee meets throughout the year to consider appeals from students who request special consideration with respect to rules and regulations governing their programs of study and qualifications for graduation.

Students who intend to appeal matters concerning regulations or decisions of the Faculty which may affect their registration must arrange to submit a written appeal including all pertinent documentation to the secretary normally within three months following the term in which the course was taken or from the date of the academic decision. Appeals will not be considered beyond three years after the end of the course or from the date of the academic decision:

| Deadline to Submit Appeal | ARAC Meeting Date |
|---------------------------|-----------------------------|
| June 30 | Third week of August |
| October 1 | Third week of November |
| December 1 | Third week of February |
| April 1 | Third or fourth week of May |

Deadlines falling on a Saturday or Sunday will be observed on the preceding Friday.

Meeting dates are subject to change by the chair.

Appeals should be addressed to: The Secretary of the Academic Regulations Appeals Committee, c/o Faculty of Arts General Office. Special forms are available in the General Office.

SECTION 8: Departments in, and Programs and Courses Offered by, the Faculty of Arts

8.1 Department of Anthropology

Head: (Acting Head) Derek Johnson

Campus Address/General Office: 432 Fletcher Argue Building

Telephone: 204 474 9361

Email Address:

um-anthro@cc.umanitoba.ca

Website: umanitoba.ca/anthropology/

8.1.1 Program Information

Anthropology is a science that examines human issues from both cultural and biological perspectives. The most fundamental concern of this discipline is the survival of humanity and the conditions of continuity and change for all human life. The department offers courses in socio-cultural anthropology or ethnology, archaeology, language and culture, and biological or physical anthropology. While academic staff of the department have research interests that range from northern climates to the tropics and from Asia to the Americas, the department is also involved in research that sheds light on Manitoba and its people.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both ANTH 1210 and ANTH 1220 (or ANTH 1520). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both ANTH 1210 and ANTH 1220 (or ANTH 1520).

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Introductory Courses

The general introductory courses (ANTH 1210, and ANTH 1220 or ANTH 1520) present the major ideas and findings of Anthropology. It is equally appropriate for those planning to take further courses in this field and for students from other departments or faculties.

8.1.2 Anthropology

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | <ul style="list-style-type: none"> • ANTH 2000, ANTH 2100, ANTH 2860 • ANTH 2020 or ANTH 2530 • 12 credit hours from courses at the 2000 level and above (of these a | | |

| | | | |
|---|--|--|---|
| | minimum of 6 credit hours must be at the 3000 and/or 4000 level) ^{1, 2, 3} | | |
| SINGLE ADVANCED MAJOR⁴ TOTAL: 48 CREDIT HOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | <ul style="list-style-type: none"> • ANTH 2000, ANTH 2100, ANTH 2860, ANTH 3470, ANTH 4850 • ANTH 2020 or ANTH 2530 • 3 credit hours from: ANTH 2820, ANTH 2890, ANTH 3720, ANTH 3730, ANTH 3930, ANTH 3950, ANTH 3980, ANTH 3990 • 3 credit hours from courses at the 4000 level¹ • 18 credit hours from courses at the 2000 level and above (of these a minimum of 9 credit hours must be at the 3000 and/or 4000 level)^{1, 2, 3} | | |
| DOUBLE ADVANCED MAJOR⁴ TOTAL: 42 CREDIT HOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | <ul style="list-style-type: none"> • ANTH 2000, ANTH 2100, ANTH 2860, ANTH 3470, ANTH 4850 • ANTH 2020 or ANTH 2530 • 3 credit hours from: ANTH 2820, ANTH 2890, ANTH 3720, ANTH 3730, ANTH 3930, ANTH 3950, ANTH 3980, ANTH 3990 • 3 credit hours from courses at the 4000 level¹ • 12 credit hours from courses at the 2000 level and above (of these a minimum of 9 credit hours must be at the 3000 and/or 4000 level)^{1, 2, 3} | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | 12 credit hours from courses at the 2000 level and above ^{2, 3} ANTH 2000 is recommended for students taking a Minor because the course is fundamental to many subsequent Anthropology courses. | | |
| SINGLE HONOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | <ul style="list-style-type: none"> • ANTH 2000, ANTH 2100, ANTH 2860 • ANTH 2020 or ANTH 2530 | <ul style="list-style-type: none"> • ANTH 3470 • 3 credit hours from one of the following: ANTH 2820, ANTH 2890, ANTH 3720, ANTH 3730, ANTH 3930, ANTH 3950, ANTH 3980, ANTH 3990 • 9 credit hours from courses at the 3000 level and above¹ | <ul style="list-style-type: none"> • ANTH 4850 • 9 credit hours from courses at the 4000 level¹ |
| | <ul style="list-style-type: none"> • 15 credit hours from courses at the 2000 level and above^{2, 3} • 36 credit hours in ancillary options⁴ | | |
| DOUBLE HONOURS | | | |
| ANTH 1210 and ANTH 1220 (or ANTH 1520) | <ul style="list-style-type: none"> • ANTH 2000, ANTH 2100, ANTH 2860 • ANTH 2020 or ANTH 2530 | <ul style="list-style-type: none"> • ANTH 3470 • 3 credit hours from one of the following: ANTH 2820, ANTH 2890, ANTH 3720, ANTH 3730, ANTH 3930, ANTH 3950, ANTH 3980, ANTH 3990 • 6 credit hours from courses at the 3000 level and above¹ | <ul style="list-style-type: none"> • ANTH 4850 • 3 credit hours from courses at the 3000 level and above¹ • 6 credit hours from courses at the 4000 level¹ |
| | <ul style="list-style-type: none"> • 36 credit hours in second honours field • 6 credit hours in ancillary options⁴ • 12 credit hours in free options⁵ | | |

NOTES:

¹ No more than 6 credit hours may be taken from ANTH 4830 or ANTH 4840.

² ANTH 2370 is recommended.

³ Courses NATV 2070 and NATV 2080 offered by the Department of Native Studies may be used to satisfy this requirement in the General Major, Single Advanced Major, Double Advanced Major, Single Honours and Minor programs.

⁴ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Anthropology courses). Students considering graduate studies should include a quantitative methods course among their ancillary options (e.g., Sociology SOC 2290, Statistics STAT 1000 and STAT 2000).

⁵ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Anthropology courses). Students considering graduate studies in Anthropology are encouraged to take additional courses in Anthropology beyond their 42 credit hour minimum, particularly courses at the 3000 and 4000 level.

8.1.3 Anthropology Course Descriptions-1000 Level

ANTH 1210 Human Origins and Antiquity Cr. Hrs. 3

An introduction to physical anthropology and archaeology. Topics include: biological evolution, evolution and comparative behaviour of primates, fossil evidence for human evolution, and the emergence of human culture. Students may not hold credit for both ANTH 1210 and ANTH 1211.

ANTH 1220 Cultural Anthropology Cr. Hrs. 3

Description The comparative study of human societies and cultures, including language, economic and political organization, family and kinship, ritual and belief systems, cultural stability and change. Students may not hold credit for ANTH 1220 and any of: ANTH 1221 or ANTH 1520.

ANTH 1520 Critical Cultural Anthropology Cr. Hrs. 3

An introduction to social cultural anthropology that critically examines production and exchange systems, age, gender, kinship and other social distinctions, belief systems, politics, and interactions between cultural systems. Learning and performance assessment is based upon supervised reading and essay writing. Students may not hold credit for ANTH 1520 and any of: ANTH 1220 or ANTH 1221.

8.1.3 Anthropology Course Descriptions-2000 Level

ANTH 2000 Culture, Society, and Power Cr. Hrs. 3

An advanced introduction to cultural anthropology that focuses on anthropological approaches to the cross-cultural organization, dynamics, and tensions of social relationships at individual, group, and societal levels. Students may not hold credit for ANTH 2000 and any of: ANTH 2001 or the former ANTH 2390 or the former ANTH 2391. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2020 Relatedness in a Globalizing World Cr. Hrs. 3

Anthropological approaches to diverse practices of human relatedness across cultures and over time, including 21st century reconfigurations or marriage, family, reproduction and kinship.

ANTH 2040 Native North America: A Sociocultural Survey Cr. Hrs. 3

An ethnographic survey of the cultures of Native North American peoples. Students may not hold credit for both ANTH 2040 and ANTH 2041. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2060 European Archaeology Cr. Hrs. 3

This course will survey the archaeological record of Europe from the earliest human occupation through the rise of early cities and complex societies. Case studies will be used to examine the social, political, economic, and technological adaptations of early human societies in the region. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2100 Introduction to Archaeology Cr. Hrs. 3

A general introduction to the principles of archaeology and the materials, analyses, and interpretations encountered in archaeological study. Students may not hold credit for both ANTH 2100 and ANTH 2101. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2230 Title Anthropology of Travel and Tourism Cr. Hrs. 3

Anthropological approaches to the study of cultural practices and phenomena of travel and tourism. Travel is examined in various social, historical, and cultural contexts as a way of seeing and experiencing the world. Emphasis is placed on the intersection of culture, colonialism, capitalism, and globalization, with practices of travel, including mass tourism. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2240 Plagues and People Cr. Hrs. 3

Examines selected plagues in evolutionary, ecological, and epidemiological context, and considers the complex biological, social, and economic repercussions for human populations. Foci include past, present, and emerging infectious disease epidemics.

ANTH 2300 Anthropology of Childhood Cr. Hrs. 3

Anthropological approaches to the study of children and childhood. Childhood is examined as a social and historical construction, and children are analyzed as active contributors to their social worlds. Cross-cultural ethnographic material relating to children and youth is critically read and discussed. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2350 Ethnology of Sub-Saharan Africa Cr. Hrs. 3

A survey of culture and society in traditional and contemporary Africa. Students may not hold credit for both ANTH 2350 and the former ANTH 2351. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520 or the former ANTH 2360 or the former ANTH 2361] or written consent of instructor.

ANTH 2370 Language and Culture Cr. Hrs. 3

The investigation of the complex interaction of language and culture, including linguistic perspectives on prehistory, ethnosemantics, and sociocultural correlations of linguistic variation. Students may not hold credit for both ANTH 2370 and ANTH 2011. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2380 Art, Symbols, Cultures Cr. Hrs. 3

Studies of the social contexts and functions of human artistic and symbolic behaviour in cross-cultural perspective. Students may not hold credit for both ANTH 2380 and ANTH 2381. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2430 Ecology, Technology and Society Cr. Hrs. 3

Ecological analysis of the interplay of socio-political and technological processes in different types of societies. Focus upon the ecological side-effects and selected technologies, economic mechanisms and political

institutions. Students may not hold credit for both ANTH 2430 and ANTH 2500. May not be used for Major or Minor in Anthropology.

ANTH 2450 Ethnology of China Cr. Hrs. 3

Issues in the anthropological study of contemporary China will be introduced in comparative perspective. The emphasis will be on issues such as economic development, changing gender relations, population growth and migration, and the politics of culture. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2470 Anthropology of Mass Communication Cr. Hrs. 3

This course focuses on media production and dissemination and on images of the world created by media. Media practices and products are addressed in relation to the formation of social relations and identities, the shaping of peoples' sense of time and space, and media's role in the construction of communities and in processes of socio-economic and cultural change. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2500 Culture, Environment, and Technology Cr. Hrs. 3

Study of ecological systems, focusing on processes of adaptation in societies differing in organization and in views of technology. Demographic and technological changes are examined in relation to cultural, political and ideological factors. Students may not hold credit for both ANTH 2500 and ANTH 2430. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2510 Anthropology of Economic Systems Cr. Hrs. 3

A comparative study of factors bearing upon production, exchange, and consumption of goods, practices and ideas in varying social contexts. The course also examines the articulation of economic systems in the global political economy. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2530 Anthropology of Political Systems Cr. Hrs. 3

Analysis of political institutions and their changing nature in diverse societies and forms of society, with attention to authority, leadership, decision-making, power and its disguises, and forms of resistance. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2550 Culture and the Individual Cr. Hrs. 3

The study of the interrelations between life-cycle, psychological functioning and malfunctioning, and social and cultural institutions. Emphasis is placed on enculturation and life-cycle rituals. Students may not hold credit for both ANTH 2550 and ANTH 2551. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2560 Anthropology of Illness Cr. Hrs. 3

Comparative study of cultural factors involved in health/illness: concepts of disease and curing practices. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2570 Urban Anthropology Cr. Hrs. 3

Comparison of the processes of urbanization and various forms of urbanism, with attention to archaeological evidence and the emergence of urbanism and urbanization in developing nations.

ANTH 2600 Old World Prehistory Cr. Hrs. 3

A survey of the archaeological evidence and cultural interpretations of Old World cultures from the beginning of the Pleistocene to the development of agriculture. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2610 Old World Civilizations Cr. Hrs. 3

Archaeological evidence and cultural interpretations of the origins of complex societies from the development of agriculture to the beginnings of written history in the Old World. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2620 New World Prehistory Cr. Hrs. 3

Archaeological evidence and cultural interpretations of those New World cultures which did not develop civilizations, from the earliest inhabitants until the period of initial European contact. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2630 New World Civilizations Cr. Hrs. 3

Archaeological evidence and cultural interpretations of the growth and development of complex societies in the New World from the origins of agriculture to the period of initial European contact. Emphasis will be placed on the "high cultures" of Central and South America. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2640 Manitoba Prehistory Cr. Hrs. 3

Archaeological evidence and culture history of prehistoric populations which inhabited the various environmental zones of Manitoba. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2690 Peoples and Cultures of Contemporary Latin America Cr. Hrs. 3

An ethnographic survey of the cultural diversity of contemporary Latin America with selected case study examples drawn from Mexico and Central America, South America, and the Hispanic Caribbean. Case studies are selected to represent a variety of anthropological perspectives. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 2820 Human Osteology Cr. Hrs. 3

An examination of normal and pathological skeletal anatomy. Quantitative methods of analysis for archaeological and forensic applications. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2860 Evolution and Human Diversity Cr. Hrs. 3

An introduction to the interacting roles of heredity, culture and environment in human families and populations. Introduces the biological bases for variation within/between human populations. Students may not hold credit for both ANTH 2860 and ANTH 2861. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2880 Human Evolution Cr. Hrs. 3

Intensive study of human organic evolution within hominid primates. Consideration of the relationships of socio-cultural adaptation to human evolution. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2890 Human Population Biology Cr. Hrs. 3

Intensive study of the evolutionary implications of genetic variation within/between human populations in relationship to ecological and cultural variation. Prerequisite: [a grade of "C" or better in ANTH 2860] or written consent of instructor.

ANTH 2910 Historical Archaeology Cr. Hrs. 3

An archaeological survey of the early post-European period in North America. Case studies will emphasize selected regions, time periods, and

topics that may include: the western Canadian fur trade; European colonialism in North America; international colonialism. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 2930 Archaeology of a Selected Area Cr. Hrs. 3

Detailed examination of the archaeology of a geographical area that is of current interest to faculty and students. The areas will rotate annually and will include but not be limited to the Caribbean, Europe, the Northwest Coast, Canada, the Arctic and the sub-Arctic. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.1.3 Anthropology Course Descriptions-3000 Level**ANTH 3200 Anthropology of Food Cr. Hrs. 3**

Considers the diversity of ways that anthropologists have used food as a productive entry point for understanding culture, society, and human ecology. The course will survey highpoints in the history of the anthropology of food and address current topics such as food security and food movements. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 3320 Women in Cross-Cultural Perspective Cr. Hrs. 3

Critical perspectives on the role of women cross-culturally, with ethnographic reference to non-Western societies and cultures. Students may not hold credit for both ANTH 3320 and ANTH 3321. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 3330 Sex and Sexualities Cr. Hrs. 3

Comparative approaches to the study of human sexuality and the diversity of sexual expression and identification from a feminist and cross-cultural ethnographic perspective. Sex and sexualities are examined as social and cultural constructions, experiences, discourses, identities, and practices located in specific local contexts and shaped by wider social processes including colonialism and globalization. Students may not hold credit for ANTH 3330 and any of: the former WOMN 3330 or the former ANTH 3350 or WOMN 3500 with the topic "Anthropology of Sex and Sexualities." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Anthropology or Women's and Gender Studies courses] or written permission of instructor.

ANTH 3380 Anthropology and Contemporary Social Issues Cr. Hrs. 3

Anthropological perspectives on poverty, social accountability, colonialism, racism, education, ecological degradation and violence. Students may not hold credit for both ANTH 3380 and ANTH 3381. Prerequisite: [a grade of "C" or better in each of ANTH 2000 (or ANTH 2001) and 3 credit hours from the following: ANTH 2020 or ANTH 2530 or ANTH 2831] or [a grade of "C" or better in the former ANTH 2390 or the former ANTH 2391] or written consent of instructor.

ANTH 3470 History of Anthropology Cr. Hrs. 3

A temporal survey of the development of major paradigms and theoretical movements in anthropological thought and method. Students may not hold credit for both ANTH 3470 and ANTH 3471. Prerequisite: [a grade of "C" or better in each of ANTH 2000 (or ANTH 2001) and 3 credit hours from the following: ANTH 2020 or ANTH 2530

or ANTH 2831] or [a grade of "C" or better in the former ANTH 2390 or the former ANTH 2391] or written consent of instructor.

ANTH 3500 Peoples of the Arctic **Cr. Hrs. 3**

Ethnographic survey of the aboriginal peoples of the circumpolar regions of Asia, North America, and Greenland. Attention will be given to the aboriginal and post-contact situations among such peoples. Students may not hold credit for both ANTH 3500 and ANTH 3501. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 3550 Canadian Subcultures **Cr. Hrs. 3**

An anthropological study of dimensions of community, ethnicity, and social class in Canadian society. Students may not hold credit for both ANTH 3550 and ANTH 3551.

ANTH 3600 Archaeological Method and Theory **Cr. Hrs. 3**

The historical development and current application of theoretical and methodological frameworks for archaeological interpretation. Prerequisite: [a grade of "C" or better in ANTH 2100] or written consent of instructor.

ANTH 3720 Demography of Past Populations **Cr. Hrs. 3**

This course provides students with a basic understanding of demographic methods and techniques applied in analysis of long term changes in the demographic patterns of anthropological populations. Prerequisite: [a grade of "C" or better in ANTH 1210 or ANTH 1211] or written consent of instructor.

ANTH 3730 Forensic Anthropology **Cr. Hrs. 3**

This course provides the theory, methods, and techniques for forensic identification of human skeletal remains, including estimation of sex, age-at-death, stature, population affinities and features of personal biology. The laboratory component of this course, where students work with actual human skeletal remains, is a major component. Prerequisite: a grade of "C" or better in ANTH 2820.

ANTH 3740 Human Growth and Variation **Cr. Hrs. 3**

An examination of variation in human body form and composition in the context of normal growth and development viewed in an evolutionary perspective. Prerequisite: [a grade of "C" or better in ANTH 2860] or written consent of instructor.

ANTH 3750 Anthropological Perspectives on Globalization and the World-System **Cr. Hrs. 3**

An anthropological perspective on the modern world-system and the expansion of capitalism into peripheral areas of the world; the transformation of indigenous societies and cultures; the rise of ethnic conflict, protest and resistance; and a comparative examination of selected global and transnational processes. Students may not hold credit for both ANTH 3750 and ANTH 3751. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520 or ANTH 2000 or ANTH 2001 or the former ANTH 2390 or the former ANTH 2391] or written consent of instructor.

ANTH 3810 Anthropology of Belief Systems **Cr. Hrs. 3**

A comparative study of belief systems, rituals, and ceremonies in non-Western and Western societies and cultures. Students may not hold for credit both ANTH 3810 and ANTH 3811. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor.

ANTH 3910 Archaeological Field Training **Cr. Hrs. 3**

Theory and practical field experience in the investigation of archaeological sites from the formulation of research designs through data analysis in the field. Offered in alternate summers. See Anthropology Department for details. Prerequisite: [a grade of "C" or better in ANTH 2100] and written consent of instructor.

ANTH 3930 Ethnographic Research Methods **Cr. Hrs. 3**

A survey of ethnographic research methods with an emphasis on qualitative approaches, including both field and analytical techniques. Students may not hold credit for both ANTH 3930 and the former ANTH 3390.

ANTH 3950 Artifact Analysis **Cr. Hrs. 3**

Analytic and interpretive methods for treating archaeologically recovered materials such as lithics, ceramics and other artifacts are addressed through lectures, demonstrations and other laboratory exercises. Prerequisite: [a grade of "C" or better in ANTH 2100] or written consent of instructor.

ANTH 3960 Cultural Resource Management **Cr. Hrs. 3**

A survey of the concepts, methods, and techniques used in the management of cultural, especially archaeological, heritage resources. The roles of public agencies, private contractors, and heritage legislation in Canadian CRM are reviewed. Prerequisite: [a grade of "C" or better in ANTH 2100] or written consent of instructor.

ANTH 3970 Ethnography of a Selected Region **Cr. Hrs. 3**

An ethnographic survey of the culture(s) of a selected geographical area currently of interest to faculty and students. The areas to be studied may differ from year to year. Students may not hold for credit both ANTH 3970 and ANTH 3971. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 or ANTH 1221 or ANTH 1520] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ANTH 3980 Botanical Analysis in Archaeology **Cr. Hrs. 3**

Analytic and interpretive methods for treating archaeologically recovered plant remains and soils are addressed through lectures, demonstrations, and laboratory exercises. Prerequisite: [a grade of "C" or better in ANTH 2100] or written consent of instructor.

ANTH 3990 Faunal Analysis in Archaeology **Cr. Hrs. 3**

Analytic and interpretive methods of treating archaeologically recovered faunal remains are addressed through lectures, demonstrations, and laboratory exercises. Prerequisite: [a grade of "C" or better in ANTH 2100] or written consent of instructor.

8.1.3 Anthropology Course Descriptions-4000 Level

ANTH 4760 Practicum in Archaeology **Cr. Hrs. 3**

This course is designed to provide advanced undergraduate students in archaeology with individualized practical experience in different aspects of archaeology by working with professional archaeologists. Prerequisite: [a grade of "C" or better in ANTH 2100] and written consent of instructor.

ANTH 4780 Selected Topics in Cultural Anthropology **Cr. Hrs. 3**

Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ANTH 4790 Selected Topics in Archaeology Cr. Hrs. 3

Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ANTH 4800 Seminar in Applied Anthropology Cr. Hrs. 3

A review of the history of applied anthropology and investigation of major case studies, research methodologies, intervention strategies, and substantive areas of application. Prerequisite: written consent of instructor or department head.

ANTH 4830 Advanced Reading and Research Cr. Hrs. 3

Prerequisite: written consent of instructor and department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ANTH 4840 Advanced Independent Work Cr. Hrs. 3

Prerequisite: written consent of instructor and department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ANTH 4850 Advanced Seminar in Anthropological Theory Cr. Hrs. 3

An analysis of the process of theory formation in the social sciences in general and in cultural (social) anthropology in particular. The theoretical content of various contemporary "schools" in anthropology is critically analyzed. Prerequisite: [a grade of "C" or better in ANTH 3470 or ANTH 3471] or written consent of instructor or department head.

ANTH 4860 Selected Topics in Biological Anthropology Cr. Hrs. 3

Topics in biological anthropology which will vary depending on the needs of students and the interest of the instructor. Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.2 Asian Studies

Director: William Lee
 Campus Address/General Office: 452A University College
 Telephone: 204 474 7047
 Email Address: Asian_studies@umanitoba.ca
 Website: umanitoba.ca/Asian_studies/

8.2.1 Program Information

Asia is home to approximately 60 percent of the world's population. Asian nations have emerged as major economic powers while their populations are asserting their own cultural and historical identities. With this comes an expectation that Western nations will take an interest not only in the economic potential of the continent but also in its rich cultural heritage.

The Asian Studies Centre was established in 1990 to stimulate and organize teaching and research on Asia. Faculty attached to the centre offer instruction in the languages and culture of China, India and Japan. As well, specialists in other departments offer Asia-related courses that can be used for a Major or Minor in Asian Studies.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both ASIA 1420 (HIST 1420) and ASIA 1430 (HIST 1430). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both ASIA 1420 (HIST 1420) and ASIA 1430 (HIST 1430).

8.2.2 Asian Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| ASIA 1420 (HIST 1420) and ASIA 1430 (HIST 1430) | <ul style="list-style-type: none"> • 6 credit hours in one of the language courses numbered at the 1000 level from List A • 6 credit hours from ASIA 2080, ASIA 2620 or ASIA 2630 • 6 credit hours in courses numbered at the 2000 level from List A | 6 credit hours from courses in List A numbered at the 3000 level and above (Students may substitute up to 6 credit hours in Asian language courses numbered at the 2000 level.) | |
| Students who wish to concentrate heavily on languages may take an Asian language course numbered at the 1000 level in Year 1. Students with matriculation in an Asian language may do an Asian language course numbered at the 2000 level in Year 2 and are encouraged to take a language course numbered at the 3000 level language in Year 3. | | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| ASIA 1420 (HIST 1420) and ASIA 1430 (HIST 1430) | 12 credit hours chosen from List A | | |

| List A | Courses Acceptable for Asian Studies Credit | |
|--------------------------------------|---|---|
| Course No. | Credit Hours | |
| Faculty of Arts | | |
| Anthropology | | |
| ANTH 2450 | Ethnology of China | 3 |
| Asian Studies Asian Languages | | |
| ASIA 1750 | Introduction to Korean | 6 |
| ASIA 1760 | Introduction to Chinese (Mandarin) | 6 |
| ASIA 1770 | Introduction to Japanese | 6 |
| ASIA 1780 | Basic Sanskrit | 6 |

| | | |
|---|---|---|
| ASIA 1790 | Basic Hindi-Urdu | 6 |
| ASIA 2750 | Intermediate Korean | 6 |
| ASIA 2760 | Intermediate Chinese (Mandarin) | 6 |
| ASIA 2770 | Intermediate Japanese | 6 |
| ASIA 2780 | Intermediate Sanskrit | 6 |
| ASIA 3750 | Advanced Korean | 6 |
| ASIA 3760 | Advanced Chinese (Mandarin) | 6 |
| ASIA 3770 | Advanced Japanese | 6 |
| ASIA 3780 | Advanced Reading in Japanese | 3 |
| ASIA 3792 | Linguistic Analysis of Japanese | 3 |
| Asian Studies Other Asian courses | | |
| ASIA 1420 | Asian Civilizations to 1500 (Same as HIST 1420) | 3 |
| ASIA 1430 | Asian Civilizations from 1500 (Same as HIST 1430) | 3 |
| ASIA 2080 | South Asian Civilization | 3 |
| ASIA 2570 | History, Culture and Society in Chinese Film | 3 |
| ASIA 2580 | Women in Chinese Film | 3 |
| ASIA 2600 | Japanese Film | 3 |
| ASIA 2610 | Modern Chinese Literature in Translation | 3 |
| ASIA 2620 | Japanese Civilization | 3 |
| ASIA 2630 | Chinese Civilization | 3 |
| ASIA 2650 | Premodern Chinese Literature in Translation | 3 |
| ASIA 2662 | Chinese Diaspora Literature | 3 |
| ASIA 2670 | Modern Japanese Literature in Translation | 3 |
| ASIA 3480 | Selected Topics in Asian Studies 1 | 3 |
| ASIA 3490 | Selected Topics in Asian Studies 2 | 3 |
| ASIA 3520 | The Japanese Theatre | 3 |
| ASIA 3560 | Themes and Genres in Asian Literature | 3 |
| ASIA 3600 | Japanese Popular Culture | 3 |
| English, Theatre, Film & Media | | |

| | | |
|-----------------|--|---|
| FILM 2380 | The International Cinema 1 [Acceptable for credit only when the topic is Asia related] | 3 |
| FILM 2390 | The International Cinema 2 [Acceptable for credit only when the topic is Asia related] | 3 |
| History | | |
| HIST 1420 | Asian Civilizations to 1500 (Same as ASIA 1420) | 3 |
| HIST 1430 | Asian Civilizations from 1500 (Same as ASIA 1430) | 3 |
| HIST 2050 | South Asia Since 1947 | 3 |
| HIST 2130 | Emergence of Modern South Asia: 1757-1947 | 3 |
| HIST 2410 | History of India | 6 |
| HIST 2650 | Modern China and Japan | 6 |
| HIST 2654 | History of the People's Republic of China, 1949-Present | 3 |
| HIST 3090 | Studies in Asian History | 3 |
| HIST 3580 | Topics in Recent World History [Acceptable for credit only when the topic is Asia related] | 3 |
| HIST 3980 | Nationalism on the Indian Sub-Continent in the Twentieth Century | 3 |
| HIST 4070 | Issues in Modern Asian History 1: Selected Topics (M,B) | 3 |
| Religion | | |
| RLGN 1322 | Introduction to Eastern Religions | 3 |
| RLGN 2010 | Introduction to Hinduism | 3 |
| RLGN 2020 | Introduction to Buddhism | 3 |
| RLGN 2570 | Indian Religious Art and Architecture | 3 |
| RLGN 2700 | Religions of China and Japan | 6 |
| RLGN 3150 | Buddhism in East Asia | 3 |
| RLGN 3160 | Tibetan Religious Traditions | 3 |
| RLGN 3210 | Indian Philosophy | 3 |
| RLGN 3220 | Indian Religion and Society | 3 |
| RLGN 3260 | Indian Buddhism | 3 |
| RLGN 3266 | Readings in Buddhist Texts | 3 |
| RLGN 3270 | Guru and Disciple | 3 |
| RLGN 3750 | Topics in Indian Religious Art and Architecture | 3 |
| RLGN 4060 | The Yoga Tradition | 3 |

| | | |
|----------------------|-------------------------------|---|
| RLGN 4100 | Advanced Studies in Buddhism | 3 |
| RLGN 4190 | Advanced Studies in Hinduism | 3 |
| School of Art | | |
| FAAH 1100 | Survey of Asian Art | 3 |
| FAAH 3230 | Chinese Art and Architecture | 3 |
| FAAH 3240 | Japanese Art and Architecture | 3 |
| FAAH 3590 | Islamic Art and Architecture | 3 |

8.2.3 Asian Studies Course Descriptions-1000 Level

ASIA 1420 Asian Civilizations to 1500 (B) Cr. Hrs. 3

A study of major themes in the history and culture of China and Japan, the Indian subcontinent and Southeast Asia from ancient times to around 1500. Also offered as History HIST 1420. May not hold credit with HIST 1420.

ASIA 1430 Asian Civilization from 1500 (B) Cr. Hrs. 3

A study of major themes in the history and culture of China and Japan, the Indian subcontinent and Southeast Asia in modern times. Also offered as History HIST 1430. May not hold credit with HIST 1430.

ASIA 1750 Introduction to Korean Cr. Hrs. 6

(Lab required) An introduction to spoken and written Korean for students with little or no previous knowledge of the language. Students will be taught basic pronunciation, vocabulary, and grammar, as well as the Hangul writing system. Students who have received all or a portion of their elementary or secondary education in the Korean language may not normally enrol. Not open to students who have previously obtained credit in ASIA 2750.

ASIA 1760 Introduction to Chinese (Mandarin) Cr. Hrs. 6

An introduction to modern vernacular (Mandarin) Chinese in spoken and written form. Grounding in pronunciation, basic grammar, vocabulary, and some written characters. Students who have received all or a portion of their elementary or secondary education in the Chinese language may not normally enrol. Not open to students who have previously obtained credit for ASIA 2760 or ASIA 3760 or the former ASIA 2360.

ASIA 1770 Introduction to Japanese Cr. Hrs. 6

An introduction for non-Japanese speakers to Hiragana, Katakana, and some Kanji. Students will be taught pronunciation, grammar, vocabulary, and about 250 written characters. Not open to students who previously obtained credit for ASIA 2770 or ASIA 3770. Students who have obtained Grade 12 Japanese in Canada or abroad must obtain written consent of instructor.

ASIA 1780 Basic Sanskrit Cr. Hrs. 6

Students will first learn the Devanagari script then proceed to reading, writing, conversation, grammar and vocabulary. Not open to students who previously obtained credit for ASIA 2780.

ASIA 1790 Basic Hindi-Urdu Cr. Hrs. 6

Training in conversation, reading and writing of modern standard Hindi and some elements of Urdu. Students will learn to read and write the Devanagari script, and learn the basic grammar of the language. Not open to students who have previously obtained credit for the former ASIA 2790 or the former ASIA 3790.

8.2.3 Asian Studies Course Descriptions-2000 Level

ASIA 2080 South Asian Civilization Cr. Hrs. 3

Description An interdisciplinary study of the Indian subcontinent from the ancient to the contemporary period, focusing on geographic, religious, historic, sociological, and political developments. Students may not hold credit for both ASIA 2080 and the former ASIA 2070.

ASIA 2570 History, Culture, and Society in Chinese Film Cr. Hrs. 3

This course will focus on the presentation of various aspects of twentieth century Chinese culture through the medium of film. Films will be selected largely from those recently produced in China, Taiwan, and Hong Kong, with some attention to recent North American movies by ethnic Chinese directors.

ASIA 2580 Women in Chinese Film Cr. Hrs. 3

This course will focus on the cinematic presentation of women in Chinese films. Films will be selected largely from those produced recently in China, Taiwan, and Hong Kong, as well as in North America by ethnic Chinese directors. The intention is to review how the image of women as reflected in Chinese cinema has changed with time, place, and modern technology.

ASIA 2600 Japanese Film Cr. Hrs. 3

A survey of cinematic art in Japan, with emphasis on the major directors and trends of the postwar period. Films to be studied will be drawn from the work of Mizoguchi, Ozu, Kurosawa, the "New Wave" directors of the 1960s, the comedies of Itami, and films of contemporary directors such as Kitano and Miyazaki.

ASIA 2610 Modern Chinese Literature in Translation Cr. Hrs. 3

A study of 20th and 21st century Chinese literature (in English translation) from the May 4th Movement to the present. With a special focus on prose fiction, students will be introduced to the historical and critical context of literary production in modern China. Lectures and texts in English. Students may not hold credit for both ASIA 2610 and the former ASIA 2660.

ASIA 2620 Japanese Civilization Cr. Hrs. 3

An interdisciplinary study of Japanese civilization from earliest times to the Meiji Restoration. All aspects of traditional Japanese culture will be examined, including geography, religion, philosophy, history, sociology, economics and politics. The nature of Japanese cultural identity will be taken as a unifying theme. Students may not hold credit for ASIA 2620.

ASIA 2630 Chinese Civilization Cr. Hrs. 3

An interdisciplinary study of Chinese civilization from earliest times to the Opium War. All aspects of traditional Chinese culture will be examined, including geography, religion, philosophy, history, sociology, economics, and politics. A central unifying theme will be the examination of Chinese cultural identity. Students may not hold credit for ASIA 2630.

ASIA 2650 Premodern Chinese Literature in Translation Cr. Hrs. 3

A study of pre-modern Chinese literature up to 1911. Includes writings in early history and philosophy, essays, poetry, short stories and novels. Lectures and texts in English.

ASIA 2662 Chinese Diaspora Literature Cr. Hrs. 3

This course focuses on the contemporary literature of the Chinese diaspora. Through a reading of prose fiction by writers of Chinese ethnicity living in locations like Taiwan, Hong Kong, Southeast Asia, Australia and North America, we will explore the notion of "different ways of being Chinese." Some of the material studied will have been originally written in English, but much of it will be read in English translation. Lectures and texts in English.

ASIA 2670 Modern Japanese Literature in Translation Cr. Hrs. 3

This course is intended as an introduction to Japanese Literature from the Meiji era (1868-1912) to the present day. Although some attention will be paid to poetry, the emphasis will be on short stories and the novel.

ASIA 2750 Intermediate Korean Cr. Hrs. 6

(Lab required) A continuation of the study of spoken and written Korean for students who have successfully completed ASIA 1750. Students will be taught advanced pronunciation, vocabulary, and grammar. Students who have received all or a portion of their elementary or secondary education in the Korean language may not normally enrol except by special permission of the instructor. Prerequisite: [a grade of "C" or better in ASIA 1750] or written consent of instructor.

ASIA 2760 Intermediate Chinese (Mandarin) Cr. Hrs. 6

Continues the introduction of basic vocabulary, grammatical structures, and written characters. Emphasis will be given to the development of aural/oral skills. Not open to students who have previously obtained credit for ASIA 3760 or the former ASIA 2360. Prerequisite: [a grade of "C" or better in ASIA 1760] or written consent of instructor.

ASIA 2770 Intermediate Japanese Cr. Hrs. 6

For students who have taken Japanese ASIA 1770. Continues the introduction of basic vocabulary, grammatical structures and more written characters. Greater emphasis will be given to the development of aural/oral skills. Not open to students who have previously obtained credit in ASIA 3770. Prerequisite: [a grade of "C" or better in ASIA 1770] or written consent of instructor.

ASIA 2780 Intermediate Sanskrit Cr. Hrs. 6

Advanced grammar, vocabulary, and syntax to enable the student to read epic and pauranic materials. Prerequisite: [a grade of "C" or better in ASIA 1780] or written consent of instructor.

8.2.3 Asian Studies Course Descriptions-3000 Level**ASIA 3480 Selected Topics in Asian Studies 1 Cr. Hrs. 3**

An intensive study of specially selected authors or themes in Asian Studies. The particular subject will vary year to year. Prerequisite: written consent of Asian Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ASIA 3490 Selected Topics in Asian Studies 2 Cr. Hrs. 3

An intensive study of specially selected authors or themes in Asian Studies. The particular subject will vary year to year. Prerequisite: written consent of Asian Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ASIA 3520 The Japanese Theatre Cr. Hrs. 3

(Lab required) An overview and practical introduction to the Japanese theatre. Combines the study of theatre history and representative traditional and modern genres (kagura, nō, kyōgen, kabuki, bunraku, shingeki) with training in traditional movement and dance, and the performance of short, kyōgen plays. Prerequisite: [a grade of "C" or better in at least one of: ASIA 1770 or ASIA 2620 or THTR 1220] or written consent of instructor.

ASIA 3560 Themes and Genres in Asian Literature Cr. Hrs. 3

A study of selected works of Asian literature organized around specific themes or genres in English translation. Content may vary from year to year, but will include literary works from two or more regions and two or more historical periods. Prerequisite: [a grade of "C" or better in ASIA 1420 (or HIST 1420) or ASIA 1430 (or HIST 1430)] or written consent of instructor. The

course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ASIA 3600 Japanese Popular Culture Cr. Hrs. 3

This course examines various examples of popular culture in contemporary Japan, including popular literature, film, television, popular music, and leisure activities. Attention will also be paid to popular culture theory and methods of analysis. Prerequisite: [a grade of "C" or better in ASIA 2620] or written consent of instructor.

ASIA 3750 Advanced Korean Cr. Hrs. 6

A continuation of the study of spoken and written Korean for students who have successfully completed ASIA 2750. Students will engage in group projects, discussions, and presentations on topics covered in the course and in a range of communicative situations. Students will also be introduced to authentic examples of Korean novels, essays, journal articles, movies, TV dramas, and selections from Korean history and arts. Students who have received all or a portion of their elementary or secondary education in the Korean language may not normally enroll except by special permission of the instructor. Prerequisite: [a grade of "C" or better in ASIA 2750] or written consent of instructor.

ASIA 3760 Advanced Chinese (Mandarin) Cr. Hrs. 6

This course is for those who have taken Intermediate Chinese or who have obtained basic language skills in Mandarin Chinese elsewhere. A balanced approach to reading, writing, and aural/oral skills will be employed. Students will use advanced prepared texts and will also be introduced to selected examples of contemporary Chinese literature. Not open to students who previously obtained credit for the former ASIA 3660 or the former ASIA 2360. Prerequisite: [a grade of "C" or better in ASIA 2760] or written consent of instructor.

ASIA 3770 Advanced Japanese Cr. Hrs. 6

This course is designed for those who have taken ASIA 2770 Intermediate Japanese or have basic linguistic skills in Japanese and wish to improve their ability in the Japanese language previously acquired. Prerequisite: [a grade of "C" or better in ASIA 2770] or written consent of instructor.

ASIA 3780 Advanced Reading in Japanese Cr. Hrs. 3

This course allows students to further develop their skills in the Japanese language through a focus on reading. Course material will be drawn from examples of modern literature and film scripts. Prerequisite: [a grade of "C" or better in ASIA 3770] or written consent of instructor.

ASIA 3792 Linguistic Analysis of Japanese Cr. Hrs. 3

This course analyses structures and usage of the Japanese language, using linguistic methodology to understand the language and associated social, cultural, psychological, and cognitive factors. Prerequisite: [a grade of "C" or better in ASIA 2770] or written consent of instructor.

8.3 Canadian Studies Program

Program Coordinator: Barry Ferguson
Program Office: 251 St. John's College
Telephone: 204 474-6407
E-mail: Barry.Ferguson@ad.umanitoba.ca
Website: umanitoba.ca/canadian_studies/

8.3.1 Program Information

This is an interdisciplinary program that offers a comprehensive and focused approach to the study of Canada. Students will examine Canadian politics, economics, society and culture within a national and international context. A knowledge of French is an asset but it is not required.

The "List of Approved Courses in Canadian Studies" below identifies courses that may be used toward partial fulfillment of the requirements for Canadian Studies. These courses are also identified on Aurora Student with the course attribute of "Canadian Studies Requirement."

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Program.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours from the list of approved courses in Canadian Studies. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in a six credit hours from the list of approved courses in Canadian Studies.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

A reading knowledge of French, while not required, is recommended. Students should note that, for certain specific Honours courses in the Canadian field, a reading knowledge of French is, in fact, a prerequisite.

Each of the participating departments is represented by at least one member on the Canadian Studies Program Committee. The initial academic advisor for the program is the committee as a whole or any one of its members. Students who are interested in Canadian Studies may obtain further information from the Canadian Studies Program Coordinator. Students should consult the appropriate department upon entering the program regarding prerequisites for specific courses.

8.3.2 Canadian Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours in courses numbered at the 1000 or 2000 level from the list of approved courses in Canadian Studies | <ul style="list-style-type: none"> • 18 credit hours from the list of approved courses in Canadian Studies • 6 credit hours in courses numbered at the 3000 level or above from the list of approved courses in Canadian Studies | | |
| Within the 30 credit hours from the list of approved courses in Canadian Studies above: 1) 12 credit hours, but no more, must be taken in one subject field, and 2) a maximum of 12 credit hours in courses numbered at the 1000 level may be used toward the Major | | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in courses numbered at the 1000 or 2000 level | 12 credit hours from the list of approved courses in Canadian Studies | | |

| | | | |
|---|---|--|--|
| from the list of approved courses in Canadian Studies | | | |
| Within the 18 credit hours from the list of approved courses in Canadian Studies above: 1) at least 6 credit hours must be taken from each of two subject fields, and 2) a maximum of 6 credit hours in courses numbered at the 1000 level may be used toward the Minor (Concentration) | | | |
| SINGLE HONOURS | | | |
| 6 credit hours in courses numbered at the 1000 or 2000 level from the list of approved courses in Canadian Studies | <ul style="list-style-type: none"> • 18 credit hours from the list of approved courses in Canadian Studies • 12 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • 12 credit hours from the list of approved courses in Canadian Studies • 6 credit hours in courses numbered at the 4000 level from the list of approved courses in Canadian Studies • 6 credit hours in ancillary options¹ • 6 credit hours in free options² | <ul style="list-style-type: none"> • 18 credit hours in courses numbered at the 4000 level from the list of approved courses in Canadian Studies • 6 credit hours in ancillary options¹ • 6 credit hours in free options² |
| Within the 54 credit hours from the list of approved courses in Canadian Studies above: 1) 6 credit hours are required in each of three subject fields, and 2) between 12 and 24 credit hours must be taken in one of the three subject fields | | | |
| DOUBLE HONOURS | | | |
| 6 credit hours in courses numbered at the 1000 or 2000 level from the list of approved courses in Canadian Studies | <ul style="list-style-type: none"> • 12 credit hours from the list of approved courses in Canadian Studies • 12 credit hours in second Honours field • 6 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • 6 credit hours from the list of approved courses in Canadian Studies • 6 credit hours in courses numbered at the 4000 level from the list of approved courses in Canadian Studies • 12 credit hours in second Honours field • 6 credit hours in free options² | <ul style="list-style-type: none"> • 12 credit hours in courses numbered at the 4000 level from the list of approved courses in Canadian Studies • 12 credit hours in second Honours field • 6 credit hours in free options² |
| NOTES: | | | |
| ¹ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Canadian Studies courses). | | | |
| ² Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Canadian Studies courses). | | | |

For course descriptions, see departmental listings.

List of Approved Courses in Canadian Studies

Courses designated (USB) are offered in French at Université de Saint-Boniface.

| Faculty of Arts | | |
|------------------|--|---|
| Canadian Studies | | |
| CDN 1130 | Introduction to Canadian Studies | 6 |
| CDN 3730 | Canadian Identity: An Interdisciplinary Approach | 3 |
| CDN 4410 | Seminar in Canadian Studies | 6 |

| Anthropology | | |
|---|--|---|
| ANTH 2040 | Native North America: A Sociocultural Survey | 3 |
| ANTH 2041 | Les Amérindiens de l'Amérique du nord: une étude socioculturelle (USB) | 3 |
| ANTH 2640 | Manitoba Prehistory | 3 |
| ANTH 3461 | Ethnologie des Amérindiens de l'Amérique du Nord (USB) | 3 |
| ANTH 3500 | Peoples of the Arctic | 3 |
| ANTH 3501 | Peuples de l'Arctique (USB) | 3 |
| ANTH 3550 | Canadian Subcultures | 3 |
| ANTH 3551 | Sous-cultures canadiennes (USB) | 3 |
| ANTH 3910 | Archaeological Field Training | 6 |
| Economics | | |
| ECON 1210 | Introduction to Canadian Economic Issues and Policies | 3 |
| ECON 1211 | Introduction aux politiques et aux problèmes économiques canadiens (USB) | 3 |
| ECON 2310 | Canadian Economic Problems | 6 |
| ECON 2311 | Les problèmes économiques du Canada (USB) | 6 |
| ECON 2350 | Community Economic Development | 3 |
| ECON 2362 | Economics of Gender | 3 |
| ECON 3301 | Histoire économique du Canada (USB) | 6 |
| ECON 3690 | Economic Issues of Health Policy | 3 |
| ECON 3720 | Urban and Regional Economics and Policies | 3 |
| English, Theatre, Film & Media | | |
| ENGL 2270 | Canadian Literature | 6 |
| ENGL 3270 | Studies in Canadian Literature | 3 |
| ENGL 3271 | Studies in Canadian Literature | 3 |
| FILM 2430 | The Canadian Film | 3 |
| Français (USB) | | |
| FRAN 2881 | Civilisation canadienne-française (USB) | 3 |
| FRAN 3531 | Le théâtre québécois (USB) | 3 |
| FRAN 3541 | Le théâtre de l'Ouest (USB) | 3 |
| FRAN 3851 | Le théâtre de l'Ouest: poésie, nouvelles (USB) | 3 |
| FRAN 3861 | Le théâtre de l'Ouest: romans (USB) | 3 |
| French, Spanish and Italian | | |
| FREN 2700 | Poésie et théâtre canadiens-français (B) | 3 |
| FREN 3140 | Roman canadien-français (B) | 3 |
| FREN 3850 | Civilisation canadienne-française (C) | 3 |
| History | | |
| HIST 1390 | History of Colonial Canada: 1500-1885 (C) | 3 |
| HIST 1400 | History of the Canadian Nation Since 1867 (C) | 3 |
| HIST 1440 | History of Canada (C) | 6 |
| HIST 1441 | Histoire du Canada (USB) | 6 |
| HIST 2191 | Histoire économique et sociale canadienne du XIXe siècle (USB) | 6 |
| HIST 2200 | Labour History: Canada and Beyond (C) (Cross-listed with Labour Studies LABR 2200) | 3 |
| HIST 2010 | Indigenous History in Canada (C) | 6 |
| HIST 2020 | The Métis in Canada (C) | 3 |
| HIST 2282 | Inventing Canada (C) | 3 |
| HIST 2286 | Modern Canada (C) | 3 |
| HIST 2288 | History of Social Movements in Canada (C) | 3 |
| HIST 2971 | Le Canada moderne: de 1921 à nos jours (USB) | 6 |
| HIST 3050 | Canada since 1945 (C) | 6 |
| HIST 3052 | Canada since the 1960s (C) | 3 |
| HIST 3054 | Canada and the United States (C) | 3 |
| HIST 3214 | Canada's Left: Rebellion and Repression (C) (Cross-listed with Labour Studies LABR 3214) | 3 |
| HIST 3250 | Canada and the World, 1867 to the Present (C) | 6 |
| HIST 3272 | The Métis Nation: The Modern Era (C) | 3 |
| HIST 3442 | Race, Ethnicity, Immigration, and Nation in Canadian History (C) | 3 |
| HIST 3572 | The History of Women, Gender, and Sexuality in Canada (C) | 6 |
| HIST 3690 | History of Northern Canada (C) | 6 |
| HIST 3721 | Histoire du Manitoba (C) (USB) | 6 |

| HIST 3730 | A History of Western Canada (C) | 6 |
|--------------------------|---|---|
| HIST 3780 | Studies in Canadian History 1 (C) | 3 |
| HIST 3781 | Études choisies en histoire du Canada 1 (USB) | 3 |
| HIST 3791 | Études choisies en histoire du Canada 2 (USB) | 3 |
| HIST 3910 | The Ukrainians in Canada (C) | 3 |
| HIST 4060 | Gender History in Canada (C) | 6 |
| HIST 4280 | Topics in the Cultural History of Canada (C) | 6 |
| HIST 4340 | Introduction to Archival Science (G) | 6 |
| HIST 4680 | Social History of Health and Disease in Modern Canada (C) | 6 |
| HIST 4890 | Canadian Social History (C) | 6 |
| Icelandic | | |
| ICEL 2230 | Contemporary Icelandic-Canadian Literature | 3 |
| ICEL 4440 | The Icelanders in Canada | 3 |
| Labour Studies | | |
| LABR 2200 | Labour History: Canada and Beyond (C) (Cross-listed with History HIST 2200) | 3 |
| LABR 3214 | Canada's Left: Rebellion and Repression (C) (Cross-listed with History HIST 3214) | 3 |
| LABR 3510 | Industrial Relations (Cross-listed with Economics ECON 3510) | 6 |
| Linguistics | | |
| LING 1360 | Languages of Canada | 3 |
| Native Studies | | |
| NATV 1200 | The Native Peoples of Canada | 6 |
| NATV 1220 | The Native Peoples of Canada, Part 1 | 3 |
| NATV 1240 | The Native Peoples of Canada, Part 2 | 3 |
| NATV 1250 | Introductory Cree 1 | 3 |
| NATV 1260 | Introductory Cree 2 | 3 |
| NATV 1270 | Introductory Ojibway 1 | 3 |
| NATV 1280 | Introductory Ojibway 2 | 3 |
| NATV 1290 | Introductory Inuktitut | 3 |
| NATV 2020 | The Métis of Canada | 3 |
| NATV 2040 | Native Peoples of the Northern Plains | 3 |
| NATV 2060 | The Native Peoples of the Eastern Woodlands | 3 |
| NATV 2070 | The Native Peoples of the Subarctic | 3 |
| NATV 2080 | Inuit Society and Culture | 3 |
| NATV 2220 | Native Societies and the Political Process | 3 |
| NATV 2250 | Intermediate Cree | 6 |
| NATV 2272 | Intermediate Ojibway 1 | 3 |
| NATV 2274 | Intermediate Ojibway 2 | 3 |
| NATV 2300 | Cree Literature | 3 |
| NATV 2320 | Structure of the Cree Language | 3 |
| NATV 2410 | Canadian Native Literature | 3 |
| NATV 2420 | Inuit Literature in Translation | 3 |
| NATV 2450 | Images of Indians in North American Society | 3 |
| NATV 3000 | Selected Topics | 3 |
| NATV 3240 | Native Medicine and Health | 3 |
| NATV 3270 | The Métis Nation | 3 |
| NATV 3280 | Aboriginal Peoples and the Canadian Justice System | 3 |
| NATV 3300 | Native Language Planning and Development | 3 |
| NATV 3310 | Canadian Law and Aboriginal Peoples | 3 |
| NATV 3340 | Circumpolar Cultures and Lifestyles | 3 |
| NATV 3370 | Political Development in the North | 3 |
| NATV 3380 | Cultural Constructions of Gender in Canadian Aboriginal Societies | 3 |
| NATV 4200 | First Nations Government | 3 |
| NATV 4210 | Seminar in Contemporary and Historical Métis Issues | 3 |
| NATV 4220 | Environment, Economy and Aboriginal People | 3 |
| NATV 4230 | Traditional Knowledge and Native Studies Research | 3 |
| NATV 4240 | Arctic Lifestyles | 3 |
| NATV 4250 | Topics on Aboriginal Identities | 3 |
| NATV 4280 | Missionaries, Colonialism and Aboriginal Peoples | 3 |
| Political Studies | | |
| POLS 1502 | Introduction to Political Studies | 3 |
| POLS 1506 | Survey of Political Studies | 3 |

| | | |
|---|---|---|
| POLS 2070 | Introduction to Canadian Government | 6 |
| POLS 2073 | Introduction à la politique canadienne 1: État et société (USB) | 3 |
| POLS 2075 | Introduction à la politique canadienne II: Institutions et politiques publiques (USB) | 3 |
| POLS 2561 | Questions d'actualité en politique Canadienne (USB) | 6 |
| POLS 2571 | Initiation à l'administration publique (USB) | 6 |
| POLS 3100 | Gender and Politics in Canada | 3 |
| POLS 3170 | The Canadian Charter of Rights and Freedoms | 3 |
| POLS 3470 | Canadian Public Management | 3 |
| POLS 3520 | Canadian Foreign and Defence Policy | 6 |
| POLS 3670 | Canadian Political Parties | 3 |
| POLS 3860 | Canadian Federalism | 3 |
| POLS 3960 | Canadian Politics | 6 |
| POLS 4070 | Advanced Seminar: Canadian Government | 3 |
| POLS 4080 | Advanced Seminar: Canadian Democracy | 3 |
| POLS 4140 | Canadian Political Ideas | 3 |
| POLS 4150 | Indigenous Governance | 3 |
| POLS 4180 | Provincial Politics in Canada | 3 |
| POLS 4190 | Manitoba Politics and Government | 3 |
| POLS 4660 | The State in the Economy | 6 |
| POLS 4860 | The Canadian Policy Process | 6 |
| Religion | | |
| RLGN 2590 | Religion and Social Issues | 3 |
| RLGN 2591 | La religion et les problèmes sociaux (USB) | 3 |
| Slavic Studies | | |
| UKRN 2410 | Ukrainian Canadian Cultural Experience | 3 |
| Sociology and Criminology | | |
| SOC 2320 | Canadian Society and Culture | 3 |
| SOC 2321 | La société Canadienne et sa culture (USB) | 3 |
| SOC 2370 | Ethnic Relations | 3 |
| SOC 2371 | Rapports ethniques (USB) | 3 |
| SOC 2531 | Sociologie du Manitoba (USB) | 6 |
| SOC 2610 | Sociology of Criminal Justice and Corrections | 3 |
| SOC 2620 | The Sociology of Aging | 3 |
| SOC 3380 | Power, Politics and the Welfare State | 3 |
| SOC 3471 | Sociologie politique (USB) | 3 |
| SOC 3700 | Sociology of Law | 3 |
| Ukrainian Canadian Heritage Studies | | |
| UCHS 3100 | The Ukrainian Arts in Canada | 3 |
| FAAH 3260 | Canadian Art and Architecture to World War II | 3 |
| FAAH 3270 | Canadian Art Since World War II | 3 |
| FAAH 3430 | Inuit Art | 3 |
| Clayton H. Riddell Faculty of Environment, Earth, and Resources | | |
| Geography | | |
| GEOG 2570 | Geography of Canada (A) | 3 |
| GEOG 2900 | Geography of Canadian Prairie Landscapes (A) | 3 |
| GEOG 3431 | Géographie du Canada (USB) | 3 |
| GEOG 3481 | Particularités de la géographie du Canada (USB) | 3 |

8.3.3 Canadian Studies Course Descriptions

CDN 1130 Introduction to Canadian Studies Cr. Hrs. 6

This course will introduce students to an interdisciplinary study of Canadian themes and issues from early exploration to the present. The emergence of Canada as a nation will be studied within the context of four themes: the aboriginal past; the land; political and economic structures; art and culture. As a first-year course in Canadian studies students will be encouraged to develop their writing, research and library skills.

CDN 3730 Canadian Identity: An Interdisciplinary Approach Cr. Hrs. 3

An interdisciplinary lecture/seminar (art, economics, history, literature) course which will explore Canadian identity. Themes to be studied include the Aboriginal past, French/British colonization, land/regions and ethnic

diversity. Prerequisite: a grade of "C" or better in a minimum of 24 credit hours of courses at the 1000-level or above.

CDN 4410 Seminar in Canadian Studies Cr. Hrs. 6

A seminar course whose content may vary from year to year. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.4 Catholic Studies Program

Program Coordinator: (Acting) Daniel C. MacLeod

Program Office: 118 St. Paul's College

Telephone: 204 474 9165

E-mail: catholic@umanitoba.ca

Website: umanitoba.ca/catholic_studies

8.4.1 Program Information

The historical relationships and ongoing encounters that the members of the Roman Catholic Church have had with disciplines such as history, the arts and sciences, as well as human thought comprise the framework around which the Catholic Studies program is formed. It seeks to explore the Catholic tradition in ways that do justice to its full contributions and challenges as a historical and contemporary phenomenon.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Minor Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in CATH 1190 and a grade of "C" or better in at least three credit hours from the List of Approved Courses in Catholic Studies.

8.4.2 Catholic Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| CATH 1190 and at least 3 credit hours from the List of Approved Courses in Catholic Studies | <ul style="list-style-type: none"> • CATH 3900 • 9 credit hours from the List of Approved Courses in Catholic Studies | | |

| List of Approved Courses in Catholic Studies | | |
|---|--|---|
| Faculty of Arts | | |
| Catholic Studies | | |
| CATH 1190 | Introduction to Catholic Studies | 3 |
| CATH 2000 | Special Topics in Catholic Studies | 3 |
| CATH 2010 | Literature and Catholic Culture 1 | 3 |
| CATH 2020 | Literature and Catholic Culture 2 | 3 |
| CATH 2100 | Field Studies in Catholic Culture | 6 |
| CATH 2200 | Catholicism and Human Sexuality | 3 |
| CATH 2300 | The Jesuits: Their Legacy and Influence | 3 |
| CATH 2400 | Mystics, Saints and Sinners: The Quest for Holiness in the Catholic Church | 3 |
| CATH 2500 | Reshaping the Catholic Landscape in Canada | 3 |
| CATH 2600 | Pilgrimage and the Localization of Catholic Devotion | 3 |
| CATH 2700 | Catholicism and the Paranormal | 3 |
| CATH 3900 | Catholic Social Teaching | 3 |
| History | | |
| HIST 2180 | The History of Catholicism to 1540 (G) | 3 |
| HIST 2990 | The History of Catholicism since 1540 (G) | 3 |
| HIST 2991 | Histoire de l'Église catholique depuis 1540 (G) | 3 |
| Philosophy | | |

| | | |
|----------------------|--|---|
| PHIL 2780 | Thomas Aquinas | 3 |
| Religion | | |
| RLGN 2840 | The Second Vatican Council | 3 |
| RLGN 2850 | Contemporary Issues in Roman Catholicism | 3 |
| RLGN 3870 | The Thought of Bernard Lonergan | 3 |
| School of Art | | |
| Art History | | |
| FAAH 2060 | Medieval to Early Renaissance Art and Architecture | 3 |
| FAAH 2070 | Renaissance to Baroque Art and Architecture | 3 |
| FAAH 3130 | Topics in Medieval Art and Architecture | 3 |
| FAAH 3140 | Topics in Renaissance and Baroque Art and Architecture | 3 |
| FAAH 3280 | Early Byzantine Art and Architecture | 3 |

8.4.3 Catholic Studies Course Descriptions

CATH 1190 Introduction to Catholic Studies **Cr. Hrs. 3**

An initiation into diversity, richness, and significance of Roman Catholicism in its many different forms and expressions, seeking to highlight the resources and techniques available for pursuing an interdisciplinary study of Catholicism as a field of intellectual inquiry.

CATH 2000 Special Topics in Catholic Studies **Cr. Hrs. 3**

The subject matter of this course will vary from year to year, but it will deal with a special topic of current interest in the interdisciplinary program in Catholic Studies. Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of program coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

CATH 2010 Literature and Catholic Culture 1 **Cr. Hrs. 3**

The course will focus on the portrayals of Catholic Culture in literature of the 20th Century prior to Vatican II Council. Students will also study the formal features of poetry, drama, and prose focusing on the Catholic Tradition. Prerequisite: [a grade of "C" or better in CATH 1190 or ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (the former ENGL 1310) and ENGL 1340] or written consent of instructor.

CATH 2020 Literature and Catholic Culture 2 **Cr. Hrs. 3**

The course will focus on the portrayals of Catholic Culture in literature of the 20th and 21st Century following Vatican II Council. Students will also study the formal features of poetry, drama, and prose involving the Catholic Tradition. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (the former ENGL 1310) and ENGL 1340] or written consent of instructor.

CATH 2100 Field Studies in Catholic Culture **Cr. Hrs. 6**

Offered as part of the Summer Session, this course consists of on-campus study followed by travel to major sites and museums. Prerequisite: none, but CATH 1190 is recommended.

CATH 2200 Catholicism and Human Sexuality **Cr. Hrs. 3**

This course explores the Catholic Church's understanding of sexual expression with a focus on topics such as reciprocity and performance, fidelity, romantic love, sexual identities, and intimacy with special attention given to the works of Pope John Paul II and other contemporary Catholic thinkers. Students may not hold credit for both CATH 2200 and CATH 2000 when titled "Catholicism and Sexual Expression." Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 2300 The Jesuits: Their Legacy and Influence **Cr. Hrs. 3**

The Society of Jesus (the Jesuit order) has aroused admiration and respect as well as fear and suspicion throughout its eventful history. The Jesuits have left an indelible mark on the Catholic Church as well as the modern world itself in their roles as explorers, intellectuals, artists, scientists, and teachers. This course focuses on Jesuit contributions to science, education, the fine arts, politics, and social reform since the order's foundation in 1534. Students may not hold credit for both CATH 2300 and CATH 2000 when titled "The Jesuits: Their Legacy and Influence." Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 2400 Mystics, Saints, and Sinners: The Quest for Holiness in the Catholic Church **Cr. Hrs. 3**

This course will explore the Roman Catholic notion of sanctity as it developed over the course of history. From martyr to mystic and ascetic to activist, variations of holiness will be examined in relation to the regions, periods, and interests that shaped them. It provides both a chronological and an interdisciplinary overview of sanctity from the New Testament to the present with a special focus on the lives of the saints, relics, shrines, and canonization treatises. Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 2500 Reshaping the Catholic Landscape in Canada **Cr. Hrs. 3**

A survey of Catholic identity in Canada as it has shifted from the arrival of French missionaries in the 17th century until today. Emphasis will be placed on the roles that early Catholic immigrants from Europe played in the development of both the Church and the national character of Canada as well as how recent immigrants from South America, the Caribbean, Asia, and Africa continue to shape them. Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 2600 Pilgrimage and the Localization of Catholic Devotion **Cr. Hrs. 3**

The historical and contemporary fascination with holy places continues to permeate Catholic tradition. This course focuses on the identification and analysis of regions in which localized piety has either once existed or thrives today. It also places a strong emphasis on how the quest for sacred space remains a fundamental part of wider devotion within the Church. Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 2700 Catholicism and the Paranormal **Cr. Hrs. 3**

A critical introduction into the Catholic Church's historical and contemporary reactions to the supernatural with a focus on topics such as apparitions, levitation, ghosts and possession, mystical visions, Eucharistic miracles, bilocation, the occult, stigmata, as well as other unexplained religious phenomena. Students may not hold credit for both CATH 2700 and CATH 2000 when titled "Catholicism and the Paranormal." Prerequisite: [a grade of "C" or better in CATH 1190] or written consent of instructor.

CATH 3900 Catholic Social Teaching **Cr. Hrs. 3**

An introduction to Catholic social teaching with a dual focus on critical theory and praxis. Students will engage the Church's position on issues such as human dignity, solidarity with minority and oppressed populations, the common good, subsidiarity, rights and responsibilities, as well as the preferential option for the poor. Prerequisite: [a grade of "C" or better in each of CATH 1190 and an additional 3 credit hours of CATH courses] or written consent of instructor.

8.5 Central and East European Studies Program

Acting Program Coordinator: Iryna Konstantiuk
 Program Office: 321 Fletcher Argue
 Telephone: 204 474 8298
 E-mail: Iryna.Konstantiuk@umanitoba.ca

Website: umanitoba.ca/european_studies/

8.5.1 Program Information

The disintegration of the former Soviet Union has altered the social, political, and economic environment of Central and Eastern Europe. The emergence of new independent countries and the transition from an environment dominated by communist political and economic structures continue to reshape Europe. This program offers an array of courses from five departments. It explores past and present issues in the region.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both six credit hours of Russian, German, Polish, Ukrainian, Hungarian or Yiddish and six credit hours from the list of approved courses in Central and East European Studies below. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both six credit hours of Russian, German, Polish, Ukrainian, Hungarian or Yiddish and six credit hours from the list of approved courses in Central and East European Studies below.

Honours Program (Double Honours Only)

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

This program is only available to students registered in the Honours program in Economics, History or Political Studies.

Courses used toward the Major, Minor (Concentration) or Honours may not also be used toward a Major, Minor (Concentration) or Honours in the department in which they are offered.

8.5.2 Central and East European Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish 6 credit hours from the List of Approved Courses in Central and East European Studies | <ul style="list-style-type: none"> 12 credit hours from the List of Approved Courses in Central and East European Studies. Within these 12 credit hours, a minimum of 3 credit hours must be completed in each of two different subject fields 6 credit hours from the List of Approved Courses in Central and East European Studies or from language courses numbered at the 1000, 2000, or 3000 level3 in | | |

| | | |
|--|---|---|
| | Russian, German, Ukrainian, Polish, Hungarian or Yiddish | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | |
| <ul style="list-style-type: none"> 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish 6 credit hours from the List of Approved Courses in Central and East European Studies | <ul style="list-style-type: none"> 30 credit hours from the List of Approved Courses in Central and East European Studies. Within these 30 credit hours, a minimum of 6 credit hours must be completed in each of two different subject fields 6 credit hours from the List of Approved Courses in Central and East European Studies or from language courses numbered at the 1000, 2000, or 3000 level3 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish | |
| DOUBLE ADVANCED MAJOR TOTAL: 42 CREDIT HOURS | | |
| <ul style="list-style-type: none"> 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish 6 credit hours from the List of Approved Courses in Central and East European Studies | <ul style="list-style-type: none"> 24 credit hours from the List of Approved Courses in Central and East European Studies. Within these 24 credit hours, a minimum of 6 credit hours must be completed in each of two different subject fields 6 credit hours from the List of Approved Courses in Central and East European Studies or from language courses numbered at the 1000, 2000, or 3000 level3 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | |
| 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish, plus 6 credit hours from the List of Approved Courses in Central and East European Studies4 | 6 credit hours from the List of Approved Courses in Central and East European Studies | |
| DOUBLE HONOURS¹ | | |
| 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish | <ul style="list-style-type: none"> 6 credit hours from the List of Approved Courses in Central and East European Studies 6 credit hours in a language from courses numbered at the 1000 or 2000 level2 in Russian, German, Ukrainian, Polish, Hungarian or Yiddish³ 6 credit hours in a language from courses numbered at the 3000 level in Russian, German, Ukrainian or Polish 6 credit hours from courses numbered at the 3000 level in Economics, German, History, Political Studies, Russian, Ukrainian or Fine Arts (Art History)⁵ 24 credit hours in other Honours field 6 credit hours in ancillary options⁶ | <ul style="list-style-type: none"> 12 credit hours from courses numbered at the 4000 level in Economics, German, History, Political Studies, Russian, Ukrainian or Fine Arts (Art History)⁵ (Within these 12 credit hours, a minimum of 3 credit hours must be completed in each of two different subject fields) minimum of 12 credit hours |

| | | |
|--|---|---|
| | • 6 credit hours in free options ⁷ | in other Honours field • 6 credit hours in free options ⁷ |
|--|---|---|

NOTES:

¹ Students must ensure that all course prerequisites are met when selecting courses for the Double Honours program. Students should consult the program coordinator when selecting courses in Year 1 and 2 of the program.

² Students should note that while the majority of students begin language instruction with courses numbered at the 1000 level, in exceptional circumstances and with the approval of the committee, students may begin language instruction with courses numbered at the 2000 level.

³ Students who begin their language instruction in Year 1 with 6 credit hours of courses numbered beyond the 1000 level may take 6 credit hours at the 1000, 2000 or 3000 levels in a different language approved by the program coordinator.

⁴ Students who have declared a Major in Russian, German or Ukrainian can either take 6 credit hours from each of two different subject fields from the List of Approved Courses in Central and East European Studies, or 6 credit hours from courses numbered at the 1000 or 2000 level in a language (Russian, German, Ukrainian, Polish, Hungarian or Yiddish) other than their declared Major and 6 credit hours from the List of Approved Courses in Central and East European Studies.

⁵ Courses must be individually approved by the program coordinator as relevant to Central and East European Studies. For information on available courses, please contact the program coordinator.

⁶ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Central and East European Studies courses).

⁷ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Central and East European Studies courses).

| List of Approved Courses in Central and East European Studies | | |
|--|---|---|
| Faculty of Arts | | |
| Anthropology | | |
| ANTH 2060 | European Archaeology | 3 |
| Economics | | |
| ECON 2510 | The Economy of Ukraine | 3 |
| German and Slavic Studies | | |
| GRMN 1300 | Masterpieces of German Literature in English Translation (C) | 3 |
| GRMN 1310 | Love in German Culture in English Translation (C) | 3 |
| GRMN 2120 | Introduction to German Culture from 1918 to the Present (C) | 3 |
| GRMN 2130 | Introduction to German Culture from the Beginnings to 1918 (C) | 3 |
| GRMN 2510 | German Fairy Tales from the Brothers Grimm to Hollywood (C) | 3 |
| GRMN 3260 | Representations of the Holocaust (B) | 3 |
| GRMN 3262 | Representations of the Holocaust in English Translation (C) | 3 |
| GRMN 3270 | Studies in Contemporary German Cinema (C) | 3 |
| GRMN 3280 | Sex, Gender and Cultural Politics in the German-Speaking World (B) | 3 |
| GRMN 3282 | Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C) | 3 |
| GRMN 3290 | History in Literature in German-Speaking Countries (B) | 3 |
| GRMN 3390 | German Representations of War (C) | 3 |

| GRMN 3392 | German Representations of War (B) | 3 |
|----------------|---|---|
| GRMN 3530 | Special Topics in Comparative German and Slavic Studies (C) | 3 |
| POL 1900 | Love, Heroes and Patriotism in Contemporary Poland | 3 |
| POL 2600 | Polish Culture until 1918 | 3 |
| POL 2610 | Polish Culture 1918 to the Present | 3 |
| RUSN 1400 | Masterpieces of Russian Literature in Translation | 3 |
| RUSN 1410 | Love in Russian Culture in English Translation | 3 |
| RUSN 2280 | Russian Culture until 1900 | 3 |
| RUSN 2290 | Russian Culture from 1900 to the Present | 3 |
| RUSN 2310 | Exploring Russia through Film | 3 |
| RUSN 2410 | Russian Literature after Stalin | 3 |
| RUSN 2600 | Special Topics in Russian Culture in English Translation | 3 |
| RUSN 2740 | Literature and Revolution | 3 |
| RUSN 3770 | Tolstoy | 3 |
| RUSN 3780 | Dostoevsky | 3 |
| SLAV 3530 | Special Topics in Comparative German and Slavic Studies | 3 |
| SLAV 3920 | Gogol | 3 |
| UKRN 2200 | Ukrainian Myth, Rites and Rituals | 3 |
| UKRN 2600 | Special Topics in Ukrainian Studies | 3 |
| UKRN 2770 | Ukrainian Culture until 1900 | 3 |
| UKRN 2780 | Ukrainian Culture from 1900 to the Present | 3 |
| UKRN 2800 | Literature and Revolution in Ukraine | 3 |
| UKRN 2820 | Holodomor and Holocaust in Ukrainian Literature and Culture | 3 |
| UKRN 3100 | Ukrainian Story Writing Through the Ages | 3 |
| UKRN 3300 | Literature of Independent Ukraine | 3 |
| History | | |
| HIST 2240 | History of Antisemitism and the Holocaust (E) | 6 |
| HIST 2490 | History of Russia | 6 |
| HIST 2600 | Introduction to Ukraine | 3 |
| HIST 2610 | Making of Modern Ukraine | 3 |
| HIST 2660 | History of the Soviet Union (E) | 3 |
| HIST 2661 | Histoire de l'Union soviétique (E) | 3 |
| HIST 2840 | A History of Russia to 1917 | 3 |
| HIST 2841 | Histoire de la Russie jusqu'en 1917 (E) | 3 |

| | | |
|--------------------------|--|---|
| HIST 3062 | German and German-Jewish History, 1618 to the Present (E) | 6 |
| HIST 3064 | German and German-Jewish History, 1618-1900 (E) | 3 |
| HIST 3066 | German and German-Jewish History, 1900 to the Present (E) | 3 |
| HIST 4300 | Problems in Modern Russian and Soviet History | 6 |
| Judaic Studies | | |
| YDSH 2320 | Yiddish Literature and Language | 6 |
| Political Studies | | |
| POLS 3720 | Politics, Government and Society in Ukraine | 3 |
| POLS 3810 | Introduction to Marxism | 3 |
| Religion | | |
| RLGN 1350 | The History of Eastern Christianity | 6 |
| RLGN 2530 | Eastern Christianity in the Contemporary World | 3 |
| RLGN 3280 | Hasidism | 3 |
| School of Art | | |
| FAAH 3160 | Topics in 20th Century Art (only when topic focuses on Central and Eastern Europe) | 3 |
| FAAH 3280 | Early Byzantine Art and Architecture | 3 |
| FAAH 3290 | Later Byzantine Art and Architecture | 3 |
| FAAH 4070 | Seminar in Art History 1 (when its focus is on Central and Eastern Europe) | 3 |

Students are advised to consult the respective departmental Calendar entries for specific information on prerequisites and restrictions

8.6 The Changing Workplace Program

Program Coordinator: Arts General Office
 Program Office: 3rd Floor Fletcher Argue
 Telephone: 204 474 9100
 E-mail: arts_inquiry@umanitoba.ca

8.6.1 Program Information

The Changing Workplace is a Concentration only available to students in the B.A. Integrated Studies degree program. This program is not available as a Minor program.

The Changing Workplace is an interdisciplinary concentration and has been developed in response to information received from employees and mid-career working adults interested in pursuing a degree. Successful completion of this concentration provides learners with an understanding of the workplace in its current context and its changing nature.

Concentration Program

For entry to the Concentration, the prerequisite is a minimum grade of "C" or better in the first 6 credit hours of courses required for the Concentration.

The Concentration in The Changing Workplace will consist of 18 credit hours from the following list of courses. Students must meet the departmental prerequisites for entry into any course in this list. No course can be used to satisfy more than one Concentration.

| Faculty of Arts | | |
|-----------------|--------------------------------------|---|
| Anthropology | | |
| ANTH 2500 | Culture, Environment, and Technology | 3 |

| Economics | | |
|---|---|---|
| ECON 1210 | Introduction to Canadian Economic Issues and Policies | 3 |
| Labour Studies | | |
| LABR 1260 | Working for a Living | 3 |
| LABR 1290 | Introduction to the Canadian Labour Movement | 3 |
| LABR 2100 | The Political Economy of Labour | 3 |
| LABR 3060 | Workplace Health and Safety | 3 |
| Philosophy | | |
| PHIL 2830 | Business Ethics | 3 |
| Sociology | | |
| SOC 2390 | Social Organization | 3 |
| NOTE: Specific course sections of ECON 2610 Special Topics in Economics (3) may satisfy the concentration requirement. Students should contact the Department of Economics for information. For course descriptions, see departmental listings | | |

8.7 Department of Classics

Head: Lea Stirling
 General Office: 364 University College
 Telephone: 204 474 9502
 E-mail: classics@umanitoba.ca
 Website: umanitoba.ca/classics

8.7.1 Program Information

Classics programs focus on the languages, literature and material cultures of ancient Greece and Rome. The two cultures are considered for their formative role at the beginnings of western civilization and for their continuing influence on modern civilization. Although courses, and entire programs, are available to students without any Latin or Greek, those intending to pursue specialist studies in any field of classical studies are urged to begin study of the languages as early as possible. The department, through academic staff members with expertise in art history and archaeology, offers a variety of opportunities for travel courses and fieldwork overseas.

The Department of Classics offers Major and Minor (Concentration) programs in Classical Studies, Greek, and Latin.

8.7.2 Classical Studies

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in the first six credit hours in Classical Studies (CLAS), Greek (GRK) or Latin (LATN) or the first six credit hours from List A below. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both CLAS 1270 and CLAS 1280, or written permission of the department head.

8.7.3 Classical Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| CLAS 1270 and CLAS 1280 | <ul style="list-style-type: none"> • 6 credit hours in Classical Studies (CLAS) courses numbered at the 2000 level or above • 18 credit hours in Classical Studies (CLAS), Latin (LATN), Greek (GRK) or List A courses below (Within the 18 credit hours, a student may include up to a maximum of 15 credit hours from List A below.) | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| CLAS 1270 and CLAS 1280 | <ul style="list-style-type: none"> • 6 credit hours in Classical Studies (CLAS) courses numbered at the 2000 level or above • 36 credit hours in Classical Studies (CLAS), Latin (LATN), Greek (GRK) or List A courses of which at least 6 credit hours must be numbered at the 3000 level or above (Within the 36 credit hours, a student may include up to a maximum of 21 credit hours from List A below.) | | |
| DOUBLE ADVANCED MAJOR TOTAL: 42 CREDIT HOURS | | | |
| CLAS 1270 and CLAS 1280 | <ul style="list-style-type: none"> • 6 credit hours in Classical Studies (CLAS) courses numbered at the 2000 level or above • 30 credit hours in Classical Studies (CLAS), Latin (LATN), Greek (GRK) or List A courses of which at least 6 credit hours must be numbered at the 3000 level or above (Within the 30 credit hours, a student may include up to a maximum of 15 credit hours from List A below.) | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| CLAS 1270 and CLAS 1280 | 12 credit hours in Classical Studies (CLAS) (Within the 12 credit hours, a student may include up to 6 credit hours in Latin (LATN) or Greek (GRK) courses and may substitute up to 9 credit hours from List A below.) | | |
| List A: Approved List of Courses Offered by Other Departments Acceptable for Credit in a Major/Minor (Concentration) in Classical Studies | | | |
| History | | | |
| HIST 2420 | The Medieval World (D) | 6 | |
| Philosophy | | | |
| PHIL 2650 | Plato | 3 | |
| PHIL 2660 | Aristotle | 3 | |
| Religion | | | |
| RLGN 2112 | Medicine, Magic, and Miracle in the Ancient World | 3 | |
| RLGN 2730 | Jews and Judaism in Antiquity | 3 | |
| RLGN 3640 | Religion in the Hellenistic and Roman Mediterranean | 3 | |

For course descriptions, see the departmental listings in this Calendar.

8.7.4 Greek

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both GRK 1010 and GRK 1020, or written consent of the department head. For students who have taken additional courses toward the Major, then a

minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both GRK 1010 and GRK 1020, or written consent of the department head.

8.7.5 Greek

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| GRK 1010 and GRK 1020 | GRK 2700, GRK 2770 plus 36 credit hours in Greek of which 6 credit hours must be numbered at the 3000 level | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| GRK 1010 and GRK 1020 | GRK 2700 plus 9 credit hours in Greek | | |

8.7.6 Latin

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both LATN 1080 and LATN 1090, or written consent of the department head. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both LATN 1080 and LATN 1090, or written consent of the department head.

8.7.7 Latin

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| LATN 1080 and LATN 1090 | LATN 2700, LATN 2760 plus 36 credit hours in Latin of which 6 credit hours must be numbered at the 3000 level | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| LATN 1080 and LATN 1090 | LATN 2700 plus 9 credit hours in Latin | | |

8.7.8 Classics Course Descriptions-Classical Studies-1000 Level

CLAS 1270 Introduction to Ancient Greek Culture Cr. Hrs. 3

Ancient archaeological and literary evidence (in English translation) is the basis for a survey of the major social, political, religious, intellectual, artistic and literary institutions and achievements of the Greeks from the Bronze Age to the early Roman Imperial Period. The Greeks are studied in the context of the ancient Mediterranean world but also with reference to their continuing contributions to world civilization.

CLAS 1280 Introduction to Ancient Roman Culture Cr. Hrs. 3

Ancient archaeological and literary evidence (in English translation) is the basis for a survey of the major social, political, religious, intellectual, artistic and literary institutions and achievements of the Romans, from the period of the monarchy to the onset of the Middle Ages. The Romans are studied in the context of the ancient Mediterranean world but also with reference to their continuing contributions to world civilization.

CLAS 1520 Greek and Roman Mythology Cr.Hrs. 3

A survey of Greek and Roman divine and heroic myths with attention to the nature and definition of myth, Greek and Roman legends, the relationship between myth and religion, the sources of myth (literary and artistic), and the influence of classical myth on subsequent artists and writers. Students may not hold credit for both CLAS 1520 and the former CLAS 2520.

8.7.8 Classics Course Descriptions-Classical Studies-2000 Level**CLAS 2140 Greek History: Pre-Classical Greece, 1200-479 BC Cr. Hrs. 3**

This course covers the crucial formative centuries which prefigured the Classical period of Greek history. It focuses upon the Dark Age (ca. 1200-700), when the political framework of later Greece was established, and the subsequent cultural renaissance of the seventh and sixth centuries BC.

CLAS 2150 Greek History: Classical Greece, 479-323 BC Cr. Hrs. 3

This course covers the heyday of imperial, democratic Athens, her crushing defeat by Sparta, now allied with Persia, and the ensuing crisis of the city-state which culminated in Greek subjection to Macedonian kings, Philip and Alexander.

CLAS 2160 Roman History: The Roman Republic, 753-30 BC Cr. Hrs. 3

This course covers the history of Rome from its supposed foundation in 753 BC to the end of the Republic in 30 BC. The course considers not only the events of Roman Republican history but also how historians of ancient Rome interpreted these events.

CLAS 2170 Roman History: The Roman Empire, 30 BC-AD 337 Cr. Hrs. 3

This course covers the history of Rome under emperors, from the ascension of Augustus to the death of Constantine, the first Christian emperor, in AD 337. An important theme in the course is the rise of Christianity.

CLAS 2210 Women in Ancient Greece and Rome Cr. Hrs. 3

This course analyzes the changing roles of women in ancient Greek and Roman society (roughly 800 BCE to 400 CE). Using ancient texts, inscriptions, artworks, and archaeological remains, students will examine women's roles in family life, marriage practices, religion, politics, and the economy. Although the majority of ancient evidence about women is created by men and concerns the upper classes, the course will also seek evidence of female viewpoints and the lives of lower-class women.

CLAS 2460 Field Studies in Greek Archaeology and History Cr. Hrs. 6

Offered as part of the Summer Session, the course consists of three weeks of on-campus study followed by three weeks of travel to major sites and museums. Prerequisite: none, but one or more of CLAS 1270 or CLAS 1280 or CLAS 2140 or CLAS 2150 or CLAS 2670 is recommended. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

CLAS 2490 Field Studies in Roman Archaeology and History Cr. Hrs. 6

Offered as part of the Summer Session, the course consists of three weeks of on-campus study followed by three weeks of travel to major sites and museums. Prerequisite: none, but one or more of CLAS 1270 or CLAS 1280 or CLAS 2160 or CLAS 2170 or CLAS 2680 is recommended. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

CLAS 2500 Aspects of Classical Culture and Languages Cr. Hrs. 3

The content of this course will vary, being devoted each time to surveying a special area of Classical civilization such as athletics, technology, warfare, death, slavery, education, or reception in modern film or literature. Ancient textual and archaeological evidence will form the basis of discussion. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

CLAS 2612 Greek Literature in Translation Cr. Hrs. 3

A survey in English of selected works of such major figures in Greek literature as Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Herodotus, Thucydides, and Plato. The course includes discussion of the influence of these and other works on the arts and literature of the world. Students may not hold credit for both CLAS 2612 and the former CLAS 3610.

CLAS 2622 Latin Literature in Translation Cr. Hrs. 3

A survey in English of selected works of such major figures in Latin literature as Vergil, Ovid, Terence, Livy, Cicero, Horace and Seneca. The course includes discussion of the influence of these and other works on the arts and literature of the world. Students may not hold credit for both CLAS 2622 and the former CLAS 3620.

CLAS 2670 Greek Art and Archaeology Cr. Hrs. 3

A survey, illustrated with slides, of the Minoan, Mycenaean, and classical Greek civilizations. The relevant archaeological sites and artistic works will be studied.

CLAS 2680 Roman Art and Archaeology Cr. Hrs. 3

A survey, illustrated with slides, of the civilization and art of the Roman world. The Etruscan civilization and archaeological sites of Hellenistic Greece as they influence the art of Republican and Imperial Rome will be studied.

CLAS 2710 Greek and Latin Elements in English Cr. Hrs. 3

A systematic study of the contribution of the classical languages to modern English, including the vocabulary of the sciences. The course is intended as a practical means of enhancing English vocabulary while it also emphasizes that the linguistic contributions are a reflection of the broad historical and cultural influences of classical antiquity on the modern world.

8.7.8 Classics Course Descriptions-Classical Studies-3000 Level**CLAS 3250 Aegean and Italian Prehistory Cr. Hrs. 3**

This course provides a detailed archaeological and historical view of Mediterranean culture and society from the Neolithic period of the sixth millennium BC through the early centuries of the first millennium BC. The course ends with a look ahead to the Early Iron Age. Prerequisite: [a grade of "C" or better in one of: CLAS 1270, CLAS 2140, CLAS 2150, ANTH 2060, FAAH 1030, HIST 1200, HIST 1201, HIST 1350] or written consent of department head.

CLAS 3260 Hellenistic Civilization: History and Archaeology Cr. Hrs. 3

The Hellenistic period spans the years from the death of Alexander the Great in 323 BC to the death of the Ptolemaic queen Cleopatra VII in 31 BC. This course explores both the political and, more generally, the cultural

history of the period using both textual and archaeological sources.

Prerequisite: [a grade of "C" or better in one of: CLAS 1270, CLAS 1280, CLAS 2140, CLAS 2150, FAAH 1030, HIST 1200, HIST 1201, HIST 1350] or written consent of department head.

CLAS 3264 Pompeii and Herculaneum Cr. Hrs. 3

This course will study the art and archaeology of Pompeii, Herculaneum, and other sites destroyed by Mount Vesuvius in 79 C.E., with attention to social history, artistic developments, and daily life. Students may not hold credit for both CLAS 3264 and the former CLAS 3730 when titled "Pompeii and Herculaneum." Prerequisite: [a grade of "C" or better in one of: CLAS 1270, CLAS 1280, CLAS 2160, CLAS 2170, CLAS 2680, FAAH 1030, HIST 1200, HIST 1201, HIST 1350] or written consent of department head.

CLAS 3270 The World of Late Antiquity: History and Archaeology Cr. Hrs. 3

This course examines the later Roman Empire, beginning with the reign of Constantine in the early fourth century and ending in the early fifth century. It combines historical and archaeological sources for the study of political, religious and social developments within the period. Prerequisite: [a grade of "C" or better in one of: CLAS 1270, CLAS 1280, CLAS 2170, CLAS 2680, FAAH 1030, HIST 1200, HIST 1201, HIST 1350] or written consent of department head.

CLAS 3650 Religion in Ancient Greece Cr. Hrs. 3

The religious beliefs and practices of the Greeks from the prehistoric period through the beginnings of the Hellenistic period as related to their political, social, intellectual, and domestic institutions; based on the study of both literary and archaeological evidence. Prerequisite: [a grade of "C" or better in one of: CLAS 1270, CLAS 1520, CLAS 2140, CLAS 2150, CLAS 2670, CLAS 3670, RLGN 3640, or the former CLAS 2520] or written consent of department head.

CLAS 3660 Religion in Ancient Rome Cr. Hrs. 3

The religious beliefs and practices of the Romans from earliest times until the reign of Constantine as related to their political, social, intellectual, and domestic institutions; based on the study of both literary and archaeological evidence from Italy and the rest of the Roman world. Prerequisite: [a grade of "C" or better in one of: CLAS 1280, CLAS 1520, CLAS 2160, CLAS 2170, CLAS 2680, CLAS 3670, RLGN 3640, or the former CLAS 2520] or written consent of department head.

CLAS 3670 Religion in the Hellenistic and Roman Mediterranean Cr. Hrs. 3

This course explores the wide variety of religious traditions, practices, and beliefs of the Mediterranean region in the Hellenistic and Roman period (c. 300 BCE to 300 CE). This period is exemplified by a great deal of continuity, but it was also a time of experimentation, innovation, and cultural entrepreneurship. Also offered by Religion as RLGN 3640. Students may not hold credit for both CLAS 3670 and RLGN 3640.

CLAS 3680 Studies in a Classical Literary Genre 1 Cr. Hrs. 3

The content of this course will vary, being devoted each time to a particular type of Greek and Roman literature such as epic, tragedy, comedy, satire, rhetoric, the novel, historical writings, scientific writing, etc. Lectures and discussions of the literature and its influence will be based on readings in English translation. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

CLAS 3682 Greek and Roman Epic Cr. Hrs. 3

The core readings in this course will consist of contemporary English translations of a substantial portion of the Greek and Latin epic corpus, including complete or partial works by Homer, Apollonius Rhodius, Vergil,

Ovid, Lucan and Statius. The classical epics will be studied with reference to their place in literary and cultural history. Students may not hold credit for both CLAS 3682 and CLAS 3680 when titled "Greek and Roman Epic Poetry."

CLAS 3684 Greek and Roman Tragedy Cr. Hrs. 3

This course examines the tragic drama of fifth-century Athens and imperial Rome (in translation), with particular emphasis on the extant plays of Aeschylus, Sophocles, Euripides, and Seneca in their respective historical, intellectual and cultural contexts. Students may not hold credit for both CLAS 3684 and CLAS 3680 when titled "Greek and Roman Tragedy."

CLAS 3710 Aspects of Classical Culture 1 Cr. Hrs. 3

The content of this course will vary, being devoted each time to the investigation of a special area of Classical civilization such as athletics, technology, the erotic, the occult, cuisine, law, medicine, architecture, education. Lectures and discussions will be based on the study of both archaeological and literary evidence. Prerequisite: [a grade of "C" or better in CLAS 1270 or CLAS 1280] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.7.8 Classics Course Descriptions-Greek-1000 Level

GRK 1010 Introduction to the Reading of Ancient Greek 1 Cr. Hrs. 3

Readings in Ancient Greek poetry and prose with related exercises in grammar and composition intended to prepare students to read Classical and Hellenistic Greek.

GRK 1020 Introduction to the Reading of Ancient Greek 2 Cr. Hrs. 3

Further readings in Ancient Greek poetry and prose with related exercises in grammar and composition intended to prepare students to read Classical and Hellenistic Greek. Students may not hold credit for both GRK 1020 and GRK 1030. Prerequisite: a grade of "C" or better in GRK 1010.

GRK 1030 New Testament Greek Cr. Hrs. 6

The grammar and syntax of New Testament Greek. Normally taught only in the Approved Teaching Centres. May be used for credit towards the Major or Minor in Greek only with written consent of department head. Students may not hold credit for GRK 1030 and any of: GRK 1010 or GRK 1020.

GRK 1060 Introductory Modern Greek 1 Cr. Hrs. 3

A practical introduction to the written and spoken language for those with little or no knowledge of Modern Greek. Personal instruction in script, vocabulary, aural comprehension, pronunciation and syntax is supplemented with the use of audio recording in the laboratory or via other media such as the internet. Not for credit towards the Major or Minor in Classical Studies.

GRK 1070 Introductory Modern Greek 2 Cr. Hrs. 3

The continuation of GRK 1060 with further personal instruction in vocabulary, aural comprehension, pronunciation and syntax supplemented with the use of audio recordings in the laboratory or via other media such as the internet. Not for credit towards the Major or Minor in Classical Studies. Prerequisite: [a grade of "C" or better in GRK 1060] or written consent of department head.

8.7.8 Classics Course Descriptions-Greek-2000 Level

GRK 2060 Intermediate Modern Greek 1 Cr. Hrs. 3

Continued study and practice in oral and written communication in Modern Greek. Course work includes conversation, prose composition and reading of selected texts from Greek literary works and popular media. Not for credit towards a Major or Minor in Classical Studies. Prerequisite: [a grade of "C" or better in GRK 1070] or written consent of department head.

GRK 2070 Intermediate Modern Greek 2 Cr. Hrs. 3

Continued study and practice in oral and written communication in Modern Greek. Course work includes conversation, prose composition and reading of selected texts from Greek literary works and popular media. Not for credit towards a Major or Minor in Classical Studies. Prerequisite: [a grade of "C" or better in GRK 2060] or written consent of department head.

GRK 2700 Intermediate Readings in Ancient Greek Cr. Hrs. 3

Further readings in ancient Greek poetry and prose with related exercises in grammar and composition intended to advance the student's skill at reading Classical and Hellenistic Greek. Students may not hold credit for both GRK 2700 and the former GRK 1310. Prerequisite: a grade of "C" or better in GRK 1020 or GRK 1030.

GRK 2710 The Acts of the Apostles Cr. Hrs. 3

Description The complete Book of Acts is read in Greek with attention to related textual, linguistic and historical matters. Students may not hold credit for both GRK 2710 and the former GRK 1330. Prerequisite: [a grade of "C" or better in GRK 2700 or the former GRK 1310] or written consent of department head.

GRK 2732 Readings in Greek Poetry Cr. Hrs. 3

Readings from the works of selected poets of the Archaic and Classical periods. Students may not hold credit for both GRK 2732 and the former GRK 2730. Prerequisite: a grade of "C" or better in GRK 2700 or the former GRK 1310.

GRK 2752 Readings in Greek Prose Literature Cr. Hrs. 3

Readings from the works of selected prose authors of the Classical period. Students may not hold credit for both GRK 2752 and the former GRK 2750. Prerequisite: a grade of "C" or better in GRK 2700 or the former GRK 1310.

GRK 2770 Greek Prose Composition and Sight Translation Cr. Hrs. 3

Assignments in writing Greek prose and practice in the techniques for effective reading of prose and poetry at sight. Prerequisite: a grade of "C" or better in GRK 2700 or the former GRK 1310.

GRK 2790 History of the Greek Language Cr. Hrs. 3

A survey of the language from its Indo-European pre-history to the modern era. The phonological, morphological and lexical aspects of the language are investigated in the light of Greek literary and inscriptional documents and some comparative evidence from cognate languages. Prerequisite: [a grade of "C" or better in GRK 2700 or the former GRK 1310] or [a working knowledge of Modern Greek and written consent of department head].

GRK 2810 Prose Writings of the Hellenistic and Greco-Roman Periods Cr. Hrs. 3

Reading of selected literary and historical documents relating to Judaism and early Christianity. Prerequisite: a grade of "C" or better in any of: GRK 2700 or GRK 2710 or the former GRK 1310 or the former GRK 1330.

8.7.8 Classics Course Descriptions-Greek-3000 Level**GRK 3750 Homer Cr. Hrs. 3**

Description At least three complete books of the Iliad or Odyssey are read with attention to compositional technique and metre. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3770 Greek Poetry of the Archaic Period Cr. Hrs. 3

Reading of selections from Hesiod, the Homeric Hymns and such lyric poets as Sappho, Alcaeus, Anacreon, Pindar and Bacchylides. Prerequisite: [a

grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3790 The Greek Tragedians Cr. Hrs. 3

Reading of at least one tragedy from among those of Aeschylus, Sophocles or Euripides. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3810 Aristophanes Cr. Hrs. 3

Reading of at least one complete comedy. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3830 The Greek Historians Cr. Hrs. 3

Selected readings from the works of Herodotus and Thucydides and/or the historical works of Xenophon. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3850 Plato Cr. Hrs. 3

Readings of two of the shorter dialogues or of selections from several dialogues. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3870 The Attic Orators Cr. Hrs. 3

Readings from the works of such orators as Isocrates, Lysias and Demosthenes. Prerequisite: [a grade of "C" or better in GRK 2732 or GRK 2752 or the former GRK 2730 or the former GRK 2750] or written consent of department head.

GRK 3930 Advanced Studies in Greek Prose Literature Cr. Hrs. 3

Readings in a particular genre such as philosophy, history, or rhetoric with substantial reading in secondary critical or interpretive literature. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRK 3940 Advanced Studies in Greek Poetry Cr. Hrs. 3

Readings in a particular genre such as epic, tragedy, comedy, lyric or epigram with substantial reading in secondary critical or interpretive literature. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.7.8 Classics Course Descriptions-Latin-1000 Level**LATN 1080 Introduction to the Reading of Latin 1 Cr. Hrs. 3**

Readings in Latin poetry and prose with related exercises in grammar and composition intended to prepare students to read Classical and Medieval Latin.

LATN 1090 Introduction to the Reading of Latin 2 Cr. Hrs. 3

Further readings in Latin poetry and prose with related exercises in grammar and composition intended to prepare students to read Classical and Medieval Latin. Prerequisite: a grade of "C" or better in LATN 1080.

8.7.8 Classics Course Descriptions-Latin-2000 Level**LATN 2700 Intermediate Readings in Latin Cr. Hrs. 3**

Further readings in Latin prose and poetry with related exercises in grammar and syntax as continued preparation for the reading of Classical

and Medieval Latin. Students may not hold credit for both LATN 2700 and the former LATN 1320. Prerequisite: [a grade of "C" or better in LATN 1090] or written consent of department head.

LATN 2720 Selected Readings in Republican and Augustan Poetry
Cr. Hrs. 3

Readings from among the comedies of Plautus and Terence, the shorter poems of Catullus, and the Metamorphoses of Ovid. Prerequisite: a grade of "C" or better in LATN 2700 or the former LATN 1320.

LATN 2740 Selected Readings in Republican and Augustan Prose
Cr. Hrs. 3

Readings from among the works of Livy and Caesar and the letters and philosophical writings of Cicero. Prerequisite: a grade of "C" or better in LATN 2700 or the former LATN 1320.

LATN 2760 Latin Prose Composition and Sight Translation
Cr. Hrs. 3

Assignments in writing Latin prose and practice in the techniques for effective reading of poetry and prose at sight. Prerequisite: a grade of "C" or better in LATN 2700 or the former LATN 1320.

LATN 2780 History of the Latin Language
Cr. Hrs. 3

A survey of the language from its Indo-European pre-history to its position as the matrix of the Romance languages. Phonological, morphological and lexical aspects of the language are investigated in the light of Latin documents and some comparative evidence from cognate languages. Prerequisite: a grade of "C" or better in LATN 2700 or the former LATN 1320.

LATN 2800 Readings in Medieval or Renaissance Latin
Cr. Hrs. 3

Selections of prose and poetry written after the beginning of the fourth century after Christ. Prerequisite: a grade of "C" or better in LATN 2700 or the former LATN 1320.

8.7.8 Classics Course Descriptions-Latin-3000 Level

LATN 3740 Roman Comedy
Cr. Hrs. 3

Reading of at least two plays from among the comedies of Plautus and Terence. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3760 Orations of Cicero
Cr. Hrs. 3

Description Reading of at least two complete speeches from among the political and forensic works of Cicero. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3780 Roman Satire
Cr. Hrs. 3

Reading of selected Satires of Horace and Juvenal and of excerpts from the Apocolocyntosis of Seneca and the Satyricon of Petronius. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3800 Lyric and Elegiac Poetry of the Augustan Age
Cr. Hrs. 3

Selected Odes and Epodes of Horace and amatory elegies of Propertius, Ovid and Tibullus. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3820 Vergil's Aeneid
Cr. Hrs. 3

Reading of at least three books of the Aeneid. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3840 Vergil's Eclogues and Georgics
Cr. Hrs. 3

Reading of the Eclogues in their entirety and at least two books of the Georgics. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3860 The Roman Historians
Cr. Hrs. 3

Reading of selected passages from the works of Livy, Caesar, Sallust and Tacitus. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3880 Poetry of the Silver Age
Cr. Hrs. 3

Reading of one or two tragedies of Seneca with selections from the works of Martial, Statius or Lucan. Prerequisite: [a grade of "C" or better in LATN 2720 or LATN 2740] or written consent of department head.

LATN 3932 Advanced Studies in Latin Prose Literature
Cr. Hrs. 3

Readings in a particular genre such as philosophy, history, or rhetoric with substantial reading in secondary critical or interpretive literature. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LATN 3942 Advanced Studies in Latin Poetry
Cr. Hrs. 3

Reading in a particular genre such as epic, lyric, comedy or elegy with substantial reading in secondary critical or interpretive literature. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.8 Cross-Disciplinary Programs

The Faculty of Arts offers the following Cross-Disciplinary programs. For course descriptions and prerequisites, refer to departmental sections in this Calendar.

| | |
|-------------------------------------|----------------------------------|
| Art History | See Section 9.1 |
| Asian Studies | See Section 8.2 |
| Canadian Studies | See Section 8.3 |
| Catholic Studies | See Section 8.4 |
| Central and East European Studies | See Section 8.5 |
| The Changing Workplace | See Section 8.6 |
| Global Political Economy | See Section 8.13 |
| Labour Studies | See Section 8.18 |
| Latin American Studies | See Section 8.19 |
| Medieval and Early Modern Studies | See Section 8.21 |
| Ukrainian Canadian Heritage Studies | See Section 8.28 |
| Women's and Gender Studies | See Section 8.29 |

8.9 Department of Economics

Head: Ian Hudson
General Office: 501 Fletcher Argue Building
Telephone: 204 474 9207
E-mail: economics@umanitoba.ca
Website: umanitoba.ca/economics

8.9.1 Program Information

The economy is important to all Canadians, and economics is the field of study that helps us understand our world: wages and employment, economic growth, productivity, wealth and poverty, government budgets and taxation, resource exploitation, business practices, inflation, recession, regional economic differences. In economics we study the history and current reality of these issues. We learn the principles and techniques necessary to gain a sound understanding of the choices and problems facing us during our lifetime.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see [Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.](#)

General Major Program

For entry to the General Major, the prerequisite is a grade of “C” or better in both [ECON 1010](#) and [ECON 1020](#), or both [ECON 1210](#) and [ECON 1220](#). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Advanced Major Program

For entry to the Advanced Major, the prerequisite is a grade of “C” or better in both [ECON 1010](#) and [ECON 1020](#), or both [ECON 1210](#) and [ECON 1220](#). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

When entering the four-year Advanced Major program in Economics, students are required to select from one of two available streams: Economics and Econometrics stream or Economics and Society stream. For information on the courses required in the different streams, please review the stream-specific program charts found below in section 8.9.2. Students who decide to switch streams are eligible to do so and are responsible for ensuring that they will meet the specific requirements of the stream they select.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of “C” or better in both [ECON 1010](#) and [ECON 1020](#), or both [ECON 1210](#) and [ECON 1220](#).

Honours Program

For entry to the Honours program, see [Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.](#)

When entering the four-year Single Honours program in Economics, students are required to select from one of two available streams: Economics and Econometrics stream or Economics and Society stream. For information on the courses required in the different streams, please review the stream-specific program charts found below in section 8.9.2. Students who decide to switch streams are eligible to do so and are responsible for ensuring that they will meet the specific requirements of the stream they select.

Honours students are advised to select their ancillary options from the following disciplines: Geography, History, Mathematics, Political Studies,

Statistics, Sociology, and Philosophy. However, other fields may be selected to satisfy study or career interests.

Preparation for Graduate Studies

Students contemplating graduate work are advised to complete the Honours program. Students who pursue the Economics and Econometrics stream will obtain good background knowledge of mathematics, statistics, and econometrics, as well as core theory courses in economics. Students who pursue the Economics and Society stream are advised to confirm what undergraduate econometrics or statistics courses may be necessary for admission to a future Economics graduate program at this or another institution, and plan their optional courses accordingly.

8.9.2 Economics

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---------------------------------|---|
| GENERAL MAJOR¹ TOTAL: 30 CREDIT HOURS | | | |
| Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 | <ul style="list-style-type: none"> ECON 2010, ECON 2020, ECON 2040 3 credit hours from ECON 2350, ECON 2362, ECON 2540, ECON 2550, ECON 2630 (6), ECON 3392, ECON 3692, ECON 3810, ECON 4050 6 credit hours in Economics numbered at the 2000 level or higher 6 credit hours in Economics numbered at the 3000 level or higher | | |
| SINGLE ADVANCED MAJOR - ECONOMICS AND ECONOMETRICS STREAM TOTAL: 48 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 MATH 1500 or MATH 1520 | ECON 2010, ECON 2020, ECON 2030, ECON 2040 | ECON 3010, ECON 3020, ECON 3040 | ECON 4822 (6) |
| | <ul style="list-style-type: none"> 3 credit hours from ECON 2350, ECON 2362, ECON 2540, ECON 2550, ECON 3392, ECON 3692, ECON 3810, ECON 4050, ECON 4052 An additional 9 credit hours in Economics numbered at the 2000 level or higher | | |
| SINGLE ADVANCED MAJOR - ECONOMICS AND SOCIETY STREAM 1 TOTAL: 48 CREDIT HOURS | | | |
| Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 | ECON 2010, ECON 2020, ECON 2040 | ECON 3040, ECON 3810 | ECON 4822 (6) ⁶ or 6 credit hours in Economics at the 4000 level |
| | <ul style="list-style-type: none"> 3 credit hours from ECON 2350, ECON 2362, ECON 2540, ECON 2550 6 credit hours from ECON 3374, ECON 3376, ECON 3392, ECON 3394, ECON 3690, ECON 3692, ECON 3710, ECON 3720, ECON 4050, ECON 4052 An additional 12 credit hours in Economics numbered at the 2000 level or higher | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 | An additional 12 credit hours in Economics numbered at the 2000 level or higher | | |
| SINGLE HONOURS - ECONOMICS AND ECONOMETRICS STREAM^{3,4} | | | |
| Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 | ECON 2010, ECON 2020, | ECON 3010, ECON 3020, | ECON 4010, ECON 4020, |

| | | | |
|---|---|--|----------------------|
| 1020, or both ECON 1210 and ECON 1220 • MATH 1500 or MATH 1520 | ECON 2030, ECON 2040 | ECON 3030, ECON 3040, ECON 3810 | ECON 4040, ECON 4050 |
| <ul style="list-style-type: none"> • 6 credit hours in Economics numbered at the 2000 level or higher • 6 credit hours in Economics numbered at the 4000 level • A further 12 credit hours in Economics numbered at the 3000 level or higher • 24 credit hours in ancillary options⁴ | | | |
| SINGLE HONOURS - ECONOMICS AND SOCIETY STREAM ^{3,4} | | | |
| • Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 • MATH 1500 or MATH 1520 | ECON 2010, ECON 2020, ECON 2030, ECON 2040 | ECON 3010, ECON 3020, ECON 3040, ECON 3810 | ECON 4040, ECON 4050 |
| <ul style="list-style-type: none"> • 9 credit hours from ECON 2310 (6), ECON 2630 (6), ECON 3374, ECON 3376, ECON 3392, ECON 3394, ECON 3690, ECON 3692, ECON 3710, ECON 3720 • 6 credit hours in Economics numbered at the 2000 level or higher • 6 credit hours in Economics numbered at the 3000 level or higher • 12 credit hours in Economics numbered at the 4000 level • 24 credit hours in ancillary options⁴ | | | |
| DOUBLE HONOURS ^{2,3,4,5} | | | |
| • Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 • MATH 1500 or MATH 1520 | <ul style="list-style-type: none"> • 36 credit hours in Economics courses, to include the following: <ul style="list-style-type: none"> - ECON 2010, ECON 2020, ECON 2030, ECON 2040, ECON 3010, ECON 3020, ECON 3040 - A further 9 credit hours in Economics numbered at the 2000 level or higher - A further 6 credit hours in Economics numbered at the 4000 level • At least 36 credit hours in other Honours field • At least 6 credit hours in ancillary options⁴ • At least 12 credit hours in free options⁵ | | |
| NOTES: | | | |
| <p>¹ Students in the General Major may choose to apply for admission to the Single Advanced Major, Single Honours or Double Honours programs in Economics. Such students are recommended to take MATH 1500 or MATH 1520 as an elective as it may be a prerequisite to upper level Economics courses in those programs. Students in the Single Advanced Major Economics and Society stream are strongly encouraged to complete either MATH 1500 or MATH 1520 to satisfy their University Math (M) requirement as it is good preparation for many other optional upper level Economics courses and is required for students who may switch to the Economics and Econometrics stream or who wish to proceed to either of the Honours streams.</p> <p>² Students contemplating Double Honours in Economics and Mathematics, or Economics and Statistics are referred to the Economics-Mathematics Joint Honours Program or the Economics-Statistics Joint Honours Program.</p> <p>³ Students contemplating graduate work in Economics should refer to the notes above under "Preparation for Graduate Studies".</p> <p>⁴ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Economics courses).</p> <p>⁵ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Economics courses).</p> <p>⁶ Students electing to take ECON 4822 are advised that ECON 3010 (C) is prerequisite to this course</p> | | | |

8.9.3 Economics-Mathematics Joint Honours Program

The Department of Economics and the Department of Mathematics (Faculty of Science) offer a Joint Honours program for students wishing in-depth study in Economics and Mathematics. For Mathematics course listings, refer to the Faculty of Science chapter in the Calendar.

Joint Honours Program

Students in the Joint Honours program will follow the regulations outlined in the Honours program, see Section 3.3: Honours Degree Program.

8.9.4 Economics-Mathematics Joint Honours Program

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--|--------|
| JOINT HONOURS TOTAL: 120 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> • Both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220 • MATH 1220¹, MATH 1230¹, MATH 1232¹, MATH 1240¹ • STAT 1150¹,² • COMP 1010² • 6 credit hours of electives, which should include the required "Written English" course | <ul style="list-style-type: none"> • ECON 2010, ECON 2020 • MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 • 9 credit hours of approved electives | <ul style="list-style-type: none"> • ECON 3010, ECON 3020, ECON 30402 • MATH 2030, MATH 2160, MATH 3320, MATH 3340, MATH 3440, MATH 3470, MATH 3472 • 24 credit hours of approved Economics courses³ • 3 credit hours from MATH 2140, MATH 3420, MATH 3460, MATH 4370, or any Mathematics course at the 4000 level • 3 credit hours of Mathematics courses at the 3000 or 4000 level | |
| 30 HOURS | 30 HOURS | 60 HOURS | |
| NOTES: | | | |
| <p>¹ Students in this program must achieve a minimum grade of "B" in MATH 1230, MATH 1232, MATH 1220, and MATH 1240. Students are strongly advised to take MATH 1220, MATH 1230, and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) in place of MATH 1230, MATH 1700 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150.</p> <p>² Some courses may be taken in a different year than indicated; STAT 1150, COMP 1010, ECON 3040 may be taken in Year 2. The normal prerequisite for ECON 3040 is ECON 2040, which will be waived for students in this program who have completed Year 1.</p> <p>³ Of the 24 credit hours in electives in Economics in Years 3 and 4, no more than 6 credit hours may be at the 2000 level or below and at least 6 credit hours must be at the 4000 level. Students are encouraged to take ECON 4010, ECON 4020 and ECON 4040.</p> | | | |

8.9.5 Economics-Statistics Joint Honours Program

The Department of Economics and the Department of Statistics (Faculty of Science) offer a Joint Honours program for students wishing in-depth study in Economics and Statistics. For Statistics course listings, refer to the Faculty of Science chapter in the Calendar.

Joint Honours Program

Students in the Joint Honours program will follow the regulations outlined in the Honours program, see [Section 3.3: Honours Degree Program](#).

8.9.6 Economics-Statistics Joint Honours Program

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|--|
| JOINT HONOURS TOTAL: 120 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> • Both ECON 1010 and ECON 1020, or | <ul style="list-style-type: none"> • ECON 2010, ECON 2020 | <ul style="list-style-type: none"> • ECON 3010, ECON 3020 | <ul style="list-style-type: none"> • ECON 4040, ECON 4042 |

| | | | |
|--|---|---|---|
| both ECON 1210 and ECON 1220 • MATH 1220, MATH 1230, MATH 1232, MATH 1240 • STAT 1150 • COMP 1010 • Plus 6 credit hours of electives which should include the required "Written English" course | • STAT 2150, STAT 2400 • MATH 2030, MATH 2080, MATH 2140 • MATH 2150 or MATH 2720 • Plus 6 credit hours of approved Economics electives ² | • STAT 3400, STAT 3470, STAT 3480, STAT 3490, STAT 3800 • MATH 2160, MATH 3360 • Plus 3 credit hours of approved Economics electives ² | • STAT 4100, STAT 4200, STAT 4520, STAT 4530 • Plus 12 credit hours of approved Economics electives ² |
| 30 HOURS | 30 HOURS | 30 HOURS | 30 HOURS |
| NOTES: | | | |
| ¹ The following substitutions are allowed: MATH 1300 in place of MATH 1220, MATH 1500 in place of MATH 1230, MATH 1700 in place of MATH 1232, STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150. Students must attain specific grade requirements in order to meet the upper level course prerequisites. Consult course descriptions for further information. | | | |
| ² Of the 21 credit hours of electives in Economics in Years 2, 3 and 4, no more than 6 credit hours may be at the 2000 level or below; ECON 2030 and ECON 3040 are recommended in Year 2 or 3. The normal prerequisite for ECON 3040 is ECON 2040, which will be waived for students in this program who have completed Year 1. | | | |

8.9.7 Economics Course Descriptions-1000 Level

ECON 1010 Introduction to Microeconomic Principles Cr. Hrs. 3

This course introduces students to the study of microeconomics. Topics include: demand and supply, price determination, market structure and resource allocation; the behaviour of consumers and firms; and market intervention by government. Selected economic topics are examined such as: welfare programs, environmental regulation, the economics of discrimination, pay equity, and taxation. Students may not hold credit for ECON 1010 and any of: ECON 1011 or ECON 1210 or ECON 1211 or ECON 1220 or ECON 1221 or the former ECON 1200 or the former ECON 1201.

ECON 1020 Introduction to Macroeconomic Principles Cr. Hrs. 3

This course introduces students to the study of macroeconomics. Topics include: aggregate performance and policy; the determinants of national income, employment and the price level, the role of monetary and fiscal policies in stabilizing the economy and promoting economic growth. Students may not hold credit for ECON 1020 and any of: ECON 1021 or ECON 1210 or ECON 1211 or ECON 1220 or ECON 1221 or the former ECON 1200 or the former ECON 1201.

ECON 1210 Introduction to Canadian Economic Issues and Policies Cr. Hrs. 3

Description A survey of some major principles underlying, and influences acting upon the Canadian economy and its regions. Students may not hold credit for ECON 1210 and any of: ECON 1211 or ECON 1010 or ECON 1011 or ECON 1020 or ECON 1021 or the former ECON 1200 or the former ECON 1201.

ECON 1220 Introduction to Global and Environmental Economic Issues and Policies Cr. Hrs. 3

A survey of some major principles and policies characterizing the world economy and the environment. Students may not hold credit for ECON 1220 and any of: ECON 1221 or ECON 1010 or ECON 1011 or ECON 1020 or ECON 1021 or the former ECON 1200 or the former ECON 1201.

8.9.7 Economics Course Descriptions-2000 Level

ECON 2010 Microeconomic Theory 1 Cr. Hrs. 3

This course builds on ECON 1010 to examine in greater detail microeconomic concepts of supply, demand, and industry structure. The course also includes the study of externalities, public goods, information asymmetries, and risk and uncertainty. Students may not hold credit for ECON 2010 and any of: ECON 2451, the former ECON 2450, or the former ECON 2700. Prerequisite: [a grade of "C" or better in ECON 1010 or ECON 1011 or the former ECON 1200 or the former ECON 1201] or [a grade of "C" or better in both ECON 1210 (or ECON 1211) and ECON 1220 (or ECON 1221)].

ECON 2020 Macroeconomic Theory 1 Cr. Hrs. 3

A study of classical macroeconomic models of the determination of economic aggregates such as national income, consumption, investment, government spending, exports, imports, and economy-wide variables such as the interest rate, the foreign exchange rate, the price level and inflation, and the unemployment rate. The influence of fiscal and monetary policies on the aggregate economy is examined. Students may not hold credit for ECON 2020 and any of: ECON 2471, the former ECON 2470, or the former ECON 2800. Prerequisite: [a grade of "C" or better in ECON 1020 or ECON 1021 or the former ECON 1200 or the former ECON 1201] or [a grade of "C" or better in both ECON 1210 (or ECON 1211) and ECON 1220 (or ECON 1221)].

ECON 2030 Mathematical Economics 1 Cr. Hrs. 3

Introduction to mathematical methods used in economic analysis including differentiation, matrix algebra, comparative statics, and optimization. Students may not hold credit for both ECON 2030 and the former ECON 2530. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] and [a grade of "C" or better in MATH 1230 or MATH 1500 or MATH 1501 or MATH 1520].

ECON 2040 Quantitative Methods in Economics Cr. Hrs. 3

Description An introduction to statistical methods relevant to Economics, which include: descriptive statistics; probability and probability distributions; hypothesis testing; and ordinary least squares regression. The use of contemporary econometric software is required. Students may not hold credit for both ECON 2040 and the former ECON 3170. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2050 Economic Analytics Using Computer-based Methods Cr. Hrs. 3

This computer-based course will introduce basic economic analytics such as index numbers, cost-revenue-profit relationships, demand/supply dynamics, decision-making using probability models, investment decisions, time-value of money, seasonal adjustment of data, forecasting, measures of poverty/inequality, and optimization methods such as linear programming. Students will also gain proficiency in numerical computation such as Excel, an important analytical tool used in business, government, and academic research for managing and analyzing data. Students may not hold credit for both ECON 2050 and the former ECON 2610 when titled "Measurement and Computation in Economics." Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2310 Canadian Economic Problems Cr. Hrs. 6

Application of economic theory to a broad range of problems such as agriculture, trade, foreign ownership, regional disparities, competition policy, education. Students may not hold credit for both ECON 2310 and ECON 2311. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2350 Community Economic Development Cr. Hrs. 3

Description A study of the economic development problems of northern and native communities in Manitoba. Students may not hold credit for ECON 2350 and any of: NATV 3120 or the former NATV 4310. Prerequisite: none.

ECON 2362 Economics of Gender Cr. Hrs. 3

This course will use both neo-classical and feminist economic theory to explore how gender differences may lead to different economic outcomes for men and women, both within families and in the marketplace. Topics covered may include gender aspects of production (both inside and outside the household), leisure, marriage and divorce, fertility, childcare, education, migration, aging and development. Students may not hold credit for both ECON 2362 and the former ECON 2360. Prerequisite: a grade of "C" or better in ECON 1010 or ECON 1011 or ECON 1210 or ECON 1211 or the former ECON 1200 or the former ECON 1201.

ECON 2390 Introduction to Environmental Economics Cr. Hrs. 3

The economics of management of water, air and land resource quality, and the economics of conservation. The economic implications of environmental standards, licensing, criteria and pollution charges will be illustrated by current issues. Students may not hold credit for both ECON 2390 and ABIZ 2390. Prerequisite: [a grade of "C" or better in ECON 1010 or ECON 1011 or the former ECON 1200 or the former ECON 1201] or [a grade of "C" or better in both ECON 1210 (or ECON 1211) and ECON 1220 (or ECON 1221)].

ECON 2400 Introduction to Energy Economics Cr. Hrs. 3

A study of the economic relationships in energy production, consumption, demand and supply, pricing and conservation, energy policy and the development of new and renewable energy sources. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2410 The Manitoba Economy Cr. Hrs. 3

Application of economic theory to the historical development and present structure of the provincial economy. Prerequisite: none.

ECON 2510 The Economy of Ukraine Cr. Hrs. 3

A study of the Ukrainian economy in Eastern Europe: socioeconomic history, state and structure of the Ukrainian economy within the former Soviet Union, prospects and problems of economic restructuring. Prerequisite: none.

ECON 2520 Economics of Sports and Leisure Cr. Hrs. 3

Economic analysis of current issues in professional and amateur sports, and leisure. Prerequisite: none.

ECON 2540 Political Economy 1: Production and Distribution Cr. Hrs. 3

A study of the theories, institutions, policies and relations of power in national and global economic society with reference to the production of market and non-market goods and services and the distribution of necessary and surplus output. Particular attention will be given to the role of the state in the regulation of markets and the distribution of surplus.

Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2550 Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment Cr. Hrs. 3

A study of the theories, institutions, policies and relations of power in national and global economic society with reference to economic growth, international trade and finance, economic fluctuations, inflation and unemployment. Particular attention will be given to the role of the state in the regulations of macroeconomic activity. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 2610 Special Topics in Economics Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests and availability of instructors. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 2620 Special Topics in Economics Cr. Hrs. 6

This course will vary from year to year depending on the needs of students and the interests and availability of instructors. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 2630 An Introduction to the World's Economies Cr. Hrs. 6

An examination of the world's economies from a broad-based economics perspective (including economic theories, institutional perspectives and historical evidence) to explain the development and limits of the world's changing and differing economies, and economic growth patterns in the light of the private business sector, labour relations and the role of the state. Students may not hold credit for both ECON 2630 and ECON 2620 Special Topics in Economics when titled Introduction to the World's Economies. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

8.9.7 Economics Course Descriptions-3000 Level

ECON 3010 Microeconomic Theory 2 Cr. Hrs. 3

This course uses basic calculus and optimization techniques to study consumer and firm behaviour, demand and supply theory, monopoly, monopolistic competition, oligopoly, and the Edgeworth Box analysis of an exchange economy. Students may not hold credit for ECON 3010 and any of: ECON 2461, the former ECON 2460, or the former ECON 3700. Prerequisite: [a grade of "C+" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700] and [a grade of "C" or better in MATH 1230 or MATH 1500 or MATH 1501 or MATH 1520].

ECON 3020 Macroeconomic Theory 2 Cr. Hrs. 3

Theories of national income, employment, inflation, balance of payments, stabilization policy, and economic growth within the framework of macroeconomic models of an open economy with particular attention to empirical evidence from Canada, the U.S., and other countries. This course requires the use of calculus. Students may not hold credit for ECON 3020 and any of: ECON 2481, the former ECON 2480, or the former ECON 3800. Prerequisite: [a grade of "C+" or better in ECON 2020 or ECON 2471 or the former ECON 2470 or the former ECON 2800] and [a grade of "C" or better in MATH 1230 or MATH 1500 or MATH 1501 or MATH 1520].

ECON 3030 Mathematical Economics 2 Cr. Hrs. 3

Mathematical methods used in economic analysis. Topics will include optimization with constraints, exponential and logarithmic functions, integrals, dynamic analysis, basic differential equations, and Hamiltonians. Students may not hold credit for both ECON 3030 and the former ECON 3730. Prerequisite: [a grade of "C" or better in ECON 2030 or the former ECON 2530] or written consent of instructor.

ECON 3040 Introduction to Econometrics Cr. Hrs. 3

This course builds on ECON 2040 by introducing: multivariate ordinary least squares regression using matrices; heteroscedasticity; and autocorrelation. Additional topics may include: instrumental variables; binary choice models; and panel data models. Students may not hold credit for ECON 3040 and either ABIZ 3080 or the former ECON 3180. Prerequisite: [a grade of "C+" or better in ECON 2040 or the former ECON 3170] or [a grade of "C" or better in STAT 2000 or STAT 2001].

ECON 3160 Managerial Economics Cr. Hrs. 3

An introduction to the economic foundations of managerial decision making, which includes pricing strategies, boundaries of the firm, investment in human capital, and incentive contract design. Also offered by Management as GMGT 3160. May not be held with GMGT 3160. Prerequisite: [a grade of "C" or better in both ECON 1010 (or ECON 1011) and ECON 1020 (or ECON 1021), or the former ECON 1200, or the former ECON 1201] and [a grade of "C" or better in MATH 1230 or MATH 1500 (or MATH 1501) or MATH 1510 or MATH 1520].

ECON 3362 Labour Economics 1 Cr. Hrs. 3

An introduction to labour economics, including labour supply, labour demand and the determination of wages and employment. Students may not hold credit for both ECON 3362 and the former ECON 3360. Prerequisite: a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700.

ECON 3364 Labour Economics 2 Cr. Hrs. 3

Analysis of topics in labour economics such as unemployment, immigration, gender discrimination and the impact of unions. Students may not hold credit for both ECON 3364 and the former ECON 3360. Prerequisite: a grade of "C" or better in ECON 3362.

ECON 3374 Public Expenditure Analysis and Policy Evaluation Cr. Hrs. 3

The study of the role of government in the economy, government budget and expenditure evaluation issues, benefit-cost analysis, as well as government intervention regulation, public pricing, and ownership issues. Students may not hold credit for both ECON 3374 and the former ECON 3370. Prerequisite: a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700.

ECON 3376 Taxation, Tax Policy and Inter-government Public Finance Issues Cr. Hrs. 3

A study of the principles of taxation, tax policy in Canada and elsewhere, government deficit and debt issues and fiscal federalism with emphasis on inter-governmental finance issues. Students may not hold credit for both ECON 3376 and the former ECON 3370. Prerequisite: a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700.

ECON 3392 An Introduction to Development Economics Cr. Hrs. 3

The definition and major challenges of development and an introduction to theories of growth and development. Students may not hold credit for both

ECON 3392 and the former ECON 3390. Prerequisite: [a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700] and [a grade of "C" or better in ECON 2020 or ECON 2471 or the former ECON 2470 or the former ECON 2800] or written consent of instructor.

ECON 3394 Development Economics: Problems and Policies Cr. Hrs. 3

Processes and problems of development policies to accelerate change. Economic relations between developed and developing regions. Students may not hold credit for both ECON 3394 and the former ECON 3390. Prerequisite: [a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700] and [a grade of "C" or better in ECON 2020 or ECON 2471 or the former ECON 2470 or the former ECON 2800] and [a grade of "C" or better in ECON 3392 or ECON 2630] or written consent of instructor.

ECON 3610 Special Studies Cr. Hrs. 3

This reading course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 3620 Special Studies Cr. Hrs. 6

This reading course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 3640 Economics of the Financial System Cr. Hrs. 3

Flows of funds through the financial system; savings and investment and asset choices of households and firms; intermediation by financial institutions; arbitrage between and within countries, government financial policy, with special reference to Canada. Students may not hold credit for ECON 3640 and any of: ECON 3641 or FIN 3460. Prerequisite: a grade of "C" or better in one of: ECON 2010 or ECON 2451 or ECON 3010 or ECON 2461 or the former ECON 2450 or the former ECON 2460 or the former ECON 2700 or the former ECON 3700.

ECON 3650 Monetary Macroeconomics and Policy Cr. Hrs. 3

Demand for and supply of money; term structure of interest rates; tools of central banking; design and conduct of monetary policy. Students may not hold credit for both ECON 3650 and ECON 3651. Prerequisite: a grade of "C" or better in one of: ECON 2020 or ECON 2471 or ECON 3020 or ECON 2481 or the former ECON 2470 or the former ECON 2480 or the former ECON 2800 or the former ECON 3800.

ECON 3670 International Trade Cr. Hrs. 3

Description A study of the theory of international trade and modern trade issues including the effect of economic integration on growth, distribution, national policy and the environment. Prerequisite: a grade of "C" or better in one of: ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700. ECON 3010 or ECON 2461 or the former ECON 2460 is recommended.

ECON 3680 International Finance Cr. Hrs. 3

A study of the theory of international financial markets and issues in open economy macroeconomics focusing on the balance of payments, exchange rates and the effects of international financial integration on national economies. Prerequisite: a grade of "C" or better in one of: ECON 2020 or

ECON 2471 or the former ECON 2470 or the former ECON 2800. ECON 3020 or ECON 2481 or the former ECON 2480 is recommended.

ECON 3690 Economic Issues of Health Policy Cr. Hrs. 3

The structure, functioning and financing of the Canadian health care delivery system and the demand for health care in Canada. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 3692 Economic Determinants of Health Cr. Hrs. 3

The objective of this course is to provide an economics perspective on the epidemiological transition from infectious to chronic disease. This course will contrast the biomedical, consumer choice and political economy approaches and their policy implications. Prerequisite: a grade of "C" or better in ECON 1010 or ECON 1011 or ECON 1210 or ECON 1211 or the former ECON 1200 or the former ECON 1201.

ECON 3710 Sustainable Development: Issues and Policy Cr. Hrs. 3

An examination of the theory and practice of economic sustainability, ecological sustainability, and social sustainability, with emphasis on analysing current issues and designing policies to achieve sustainable development. Prerequisite: a grade of "C" or better in six credit hours of 1000 level Economics.

ECON 3720 Urban and Regional Economics and Policies Cr. Hrs. 3

An introduction to the study of the determinants of the spatial distribution of economic activity among urban centres and regions. Particular attention will be paid to such contemporary Canadian problems as regional disparities, urban and environmental decay, and urban renewal, and the policy issues involved in dealing with these problems. Prerequisite: a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700.

ECON 3742 Industrial Organization and Firm Strategy Cr. Hrs. 3

Market structure and firms' strategic decisions will be analyzed. Topics may cover monopoly pricing strategies such as price discrimination; non-pricing strategies such as advertising, quality decisions and differentiated products; dynamic oligopoly models; mergers; anti-competitive behaviour; and auctions. This course assumes students have a sound background in economic theory, as well as single-variable calculus and basic statistics. Students may not hold credit for both ECON 3742 and the former ECON 3740. Prerequisite: [a grade of "C" or better in ECON 2010 or ECON 2451 or the former ECON 2450 or the former ECON 2700] or written consent of instructor.

ECON 3810 Alternative Approaches to Macroeconomic Analysis Cr. Hrs. 3

Description A survey of Post-Keynesian, Cambridge, Marxian, and institutionalist approaches to macroeconomic fluctuations, contrasting their theoretical and policy frameworks with those of mainstream macroeconomics. Prerequisite: a grade of "B" or better in ECON 2020 or ECON 2471 or the former ECON 2470 or the former ECON 2800.

8.9.7 Economics Course Descriptions-4000 Level

ECON 4010 Advanced Microeconomic Theory Cr. Hrs. 3

An intensive study of advanced microeconomic analysis using optimization techniques involving multivariate calculus. Topics will include consumer theory, producer theory, general equilibrium, intertemporal choice, risk and insurance markets, and asymmetric information (moral hazard and adverse

selection). Prerequisite: a grade of "B" or better in ECON 3010 or ECON 2461 or the former ECON 2460 or the former ECON 3700.

ECON 4012 Topics in Advanced Microeconomic Theory Cr. Hrs. 3

An intensive review of selected topics in advanced microeconomic theory. Prerequisite: a grade of "B" or better in ECON 3010 or ECON 2461 or the former ECON 2460 or the former ECON 3700. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 4020 Topics in Advanced Macroeconomic Theory Cr. Hrs. 3

An intensive review of selected topics in advanced macroeconomic theory. Prerequisite: a grade of "B" or better in ECON 3020 or ECON 2481 or the former ECON 2480 or the former ECON 3800. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 4040 Seminar in Applied Econometrics Cr. Hrs. 3

An applied course with a research component that incorporates real-world data and contemporary econometric software with an emphasis on the application of econometrics to a range of microeconomic and macroeconomic problems. Topics may include: endogeneity; instrumental variables; generalized method of moments; generalized least squares; limited dependent variable models; univariate and multivariate time series models; and panel data models. Students may not hold credit for ECON 4040 and any of: ABIZ 4120 or the former ECON 4120. Prerequisite: a grade of "C+" or better in ECON 3040 or the former ECON 3180.

ECON 4042 Topics in Econometrics Cr. Hrs. 3

This is a theoretical course that addresses more advanced econometric topics with the intent of preparing students for graduate-level studies in econometrics. Standard topics will be examined in more depth. Students may not hold credit for both ECON 4042 and the former ECON 4130. Prerequisite: a grade of "C+" or better in ECON 3040 or the former ECON 3180.

ECON 4050 History of Economic Thought 1 Cr. Hrs. 3

A seminar course on the history of economic thought up to 1870. Attention is given to the evolution and significance of major theoretical concepts and approaches, the people who developed them and the attendant social, intellectual and economic context. Students may not hold credit for both ECON 4050 and the former ECON 4410. Prerequisite: written consent of department head.

ECON 4052 History of Economic Thought 2 Cr. Hrs. 3

A seminar course on the history of economic thought since 1870. Attention is given to the evolution and significance of major theoretical concepts and approaches, the people who developed them, and the attendant social, intellectual and economic context. Students may not hold credit for both ECON 4052 and the former ECON 4410. Prerequisite: a grade of "C" or better in ECON 4050.

ECON 4140 Evaluation of Economic Policy and Programs Cr. Hrs. 3

This is a course in applied micro-economic policy analysis using the techniques of cost-benefit analysis as its foundation. Students will learn the welfare foundations of cost-benefit analysis, techniques for decision-making under conditions of risk and uncertainty, and how these techniques may be applied to public policy. The course will include examples from all areas of public policy, including health, education, social services criminal justice, etc. Prerequisite: written consent of department head.

ECON 4430 Theories of Economic Development Cr. Hrs. 6

A study of theories, problems, and policies of economic growth and development both for advanced and underdeveloped countries. Prerequisite: written consent of department head. ECON 2020 (or the former ECON 2800) and ECON 3020 (or the former ECON 3800) are recommended but not required.

ECON 4490 Special Studies Cr. Hrs. 3

This readings course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 4500 Special Studies Cr. Hrs. 6

This readings course will vary from year to year depending on the needs of students and interests of instructors. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ECON 4820 Workshop on Canadian Economic Policy Cr. Hrs. 6

In depth examination of policy issues on selected topics such as unemployment, inflation, international trade, transfer payments, health care, the environment. A major research paper will be expected of all students. Students may not hold credit for ECON 4820 and any of: ECON 4822 or the former ECON 4830. Prerequisite: [a grade of "C" or better in each of ECON 2040 (or the former ECON 3170) and ECON 3040 (or the former ECON 3180)] and [a grade of "C" or better in ECON 2010 (or ECON 2451 or the former ECON 2450 or the former ECON 2700)] and [a grade of "C" or better in ECON 3010 (or ECON 2461 or the former ECON 2460 or the former ECON 3700)] and [a grade of "C" or better in ECON 2020 (or ECON 2471 or the former ECON 2470 or the former ECON 2800)] and [a grade of "C" or better in ECON 3020 (or ECON 2481 or the former ECON 2480 or the former ECON 3800)]. Registration is restricted to students who have formally declared an Advanced Major in Economics or Honours Economics.

ECON 4822 Economic Research and Communication Cr. Hrs. 6

This is the capstone course for students in their final year of the B.A. (Adv.) major in Economics. The aim of this course is to develop some of the research, analytical, and writing skills that will allow students to utilize knowledge and quantitative skills acquired in previous economics courses. Students may not hold credit for ECON 4822 and any of: ECON 4820 or the former ECON 4830. Prerequisite: [a grade of "C" or better in each of ECON 2040 (or the former ECON 3170) and ECON 3040 (or the former ECON 3180)] and [a grade of "C" or better in ECON 2010 (or ECON 2451 or the former ECON 2450 or the former ECON 2700)] and [a grade of "C" or better in ECON 3010 (or ECON 2461 or the former ECON 2460 or the former ECON 3700)] and [a grade of "C" or better in ECON 2020 (or ECON 2471 or the former ECON 2470 or the former ECON 2800)] and [a grade of "C" or better in ECON 3020 (or ECON 2481 or the former ECON 2480 or the former ECON 3800)]. Registration is restricted to students who have formally declared an Advanced Major in Economics or Honours Econo

8.10 English, Theatre, Film & Media

Head: Brenda Austin-Smith
General Office: 625 Fletcher Argue Building
Telephone: 204 474 9678
E-mail: english@umanitoba.ca
Website:
http://umanitoba.ca/faculties/arts/departments/English_theatre_film_media/

8.10.1 English Program Information

Literature, and related graphic media, connects us in vital ways to times, places, and cultures, including our own; engages us in important moral and social questions; encourages us to reflect upon the capacities of the human mind and imagination; invites us to probe connections between language, form, structure, and meaning; asks us to think critically about arts of representation; and, not least, entertains, surprises, shocks, and moves us. With its wide range of courses in English-language literature, historical and contemporary, and in creative writing, our program fosters the study of literary works from these myriad perspectives and approaches.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate, including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340.

Honours Program

For entry to the Honours program see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs. A grade of "B" or better is required in ENGL 1200 or ENGL 1300 or in both ENGL 1400 and ENGL 1340; ENGL 1200 is strongly recommended. Students may also be admitted to Honours in English in the third year of undergraduate study, in consultation with the department. Honours students must have their programs approved by the department each year. Normally, to continue in the Honours program, a minimum grade of "B" must be obtained in all English courses.

Honours courses are also open to students who have been accepted into the pre-M.A. program and to students who have obtained the written consent of the department head.

Honours students who revert to a General program in English must meet the literature prior to the 1900 requirement for a Major or Minor, and they should consult the department head before continuing.

Students taking Single Honours should, if possible, take at least 12 credit hours in one of the following languages: French, German, Greek, Icelandic, Italian, Latin, Russian, Spanish.

Notes

ENGL 0930, ENGL 0940, ENGL 1061 and ENGL 1071 are not designed to teach English as a second language.

For students who need help with basic writing skills, the Department of English, Theatre, Film & Media offers two half courses: ENGL 0930 English Composition and ENGL 0940 Writing About Literature. These courses are limited in size. Both ENGL 0930 and ENGL 0940 are acceptable for credit towards a degree in Arts or Science, but they may not be counted for credit in the 48 hours for a Single Advanced Major, the 42 hours for a Double Advanced Major, the 30 hours for a General Major, or the 18 hours for a Minor (Concentration). Either or both will, however, be included in the total

number of hours a student is allowed to take in the combined Major and Minor. There is no prerequisite for entry into ENGL 0930 or ENGL 0940, and these courses are not required for admission to subsequent English courses.

Study Resources

All students taking English should own a writing handbook and a good dictionary such as Webster’s New Collegiate, Funk and Wagnall’s Standard College, The Concise Oxford, The Gage Canadian, or The New World. Students will also find useful The MLA Handbook and M.H. Abrams, A Glossary of Literary Terms.

8.10.2 English

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| GENERAL MAJOR^{1,4} TOTAL: 30 CREDIT HOURS | | | |
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | 24 credit hours in general courses at the 2000 level and above to include at least 9 credit hours of literature prior to 1900 ⁴ [of the credit hours listed above, at least 6 credit hours must be at the 3000 level]. | | |
| SINGLE ADVANCED MAJOR^{1,4,9} TOTAL: 48 CREDIT HOURS | | | |
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | 42 credit hours in general courses ³ at the 2000 level and above to include at least 15 credit hours of literature prior to 1900 ⁴ [of the credit hours listed above, at least 9 credit hours must be at the 3000 level]. | | |
| DOUBLE ADVANCED MAJOR^{1,4,9} TOTAL: 42 CREDIT HOURS | | | |
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | 36 credit hours in English at the 2000 level and above to include at least 12 credit hours of literature prior to 1900 [of the credit hours listed above, at least 9 credit hours must be at the 3000 level]. | | |
| MINOR (CONCENTRATION)^{2,4} TOTAL: 18 CREDIT HOURS | | | |
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | 12 credit hours in general courses at the 2000 level and above to include at least 6 credit hours of literature prior to 1900 [of the credit hours listed above, at least 3 credit hours must be at the 3000 level]. Students may not offer literature in translation courses ⁴ to satisfy the requirements of the Minor (Concentration). | | |
| SINGLE HONOURS^{1,4,8} | | | |
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | <ul style="list-style-type: none"> • ENGL 2640 (in Year 2)¹⁰ • 24 credit hours of literature prior to 1900⁴, of which 12 credit hours is to be in literature prior to 1700 selected from the following English courses: ENGL 2070, ENGL 2080, ENGL 2090, ENGL 3000, ENGL 3010, ENGL 3020, ENGL 3030, ENGL 3050, ENGL 3080, ENGL 3090, ENGL 3180⁵ • 6 credit hours in Canadian literature, selected from the following English courses: ENGL 2270, ENGL 3270⁵ • 12 credit hours in other literature after 1900, selected from the following English courses: ENGL 2160, ENGL 2180, ENGL 2830, ENGL 3980, ENGL 3990⁵ • 9 credit hours in other English courses at the 2000 level and above [of the credit hours listed above, at least 9 credit hours must be at the 3000 level] • 9 credit hours in Honours courses (4000 level) in Years 3 and 4 • 24 credit hours in ancillary options⁶ | | |
| DOUBLE HONOURS^{2,4,8} | | | |

| | |
|--|---|
| ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | <ul style="list-style-type: none"> • ENGL 2640 (in Year 2)¹⁰ • 18 credit hours of literature prior to 1900⁴ • 6 credit hours in other English courses at the 2000 level and above [of the credit hours listed above, at least 6 credit hours must be at the 3000 level] • 6 credit hours in Honours courses (4000 level) • 36 credit hours in second honours field • 6 credit hours in ancillary options⁶ • 12 credit hours in free options⁷ |
| NOTES: | |
| <p>¹ Students may offer up to 6 credit hours in Film Studies or Theatre courses, with the exception of FILM 1290, FILM 1310 (or the former FILM 1300), THTR 1220, THTR 2170, THTR 2180 and THTR 2490, toward the General Major, Single Advanced Major, Double Advanced Major and Single Honours in English. Any Film Studies or Theatre courses so applied may not also be offered toward a Minor (Concentration) in Film Studies or Theatre.</p> <p>² Film Studies course FILM 2280 may be used as an English course to satisfy the English course requirements. If it is used as such, it may not also be applied to a Minor (Concentration) in Film Studies or as an ancillary option in Honours.</p> <p>³ Credit in ENGL 2000 may be offered toward the 48 hours in general courses required for a Single Advanced Major only.</p> <p>⁴ Students may offer up to 6 credit hours of literature in translation courses (ENGL 2490, CLAS 2612, CLAS 2622, ICEL 3320, ICEL 3330) to satisfy requirements for a General Major, Single Advanced Major, Double Advanced Major, Single Honours or Double Honours. Students may offer up to 3 credit hours of literature in translation courses to satisfy the “literature prior to 1900” requirement for a General Major, Single Advanced Major, Double Advanced Major, Single Honours or Double Honours. Students may not offer literature in translation courses to satisfy the requirements for a Minor (Concentration).</p> <p>⁵ Certain courses that vary in content from year to year, such as Honours courses and Special Topics courses, may also satisfy this requirement, as determined by the Department.</p> <p>⁶ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding English courses).</p> <p>⁷ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including English courses).</p> <p>⁸ Honours courses: all 4000 level courses.</p> <p>⁹ It is recommended that students complete a six credit hour theory course, specifically ENGL 2640.</p> <p>¹⁰ ENGL 2640 should be taken in Year 2 when possible, as it may not be offered every year.</p> | |

Literature Prior to 1900

Students declaring a four-year Advanced Major in English must take at least 15 credit hours from the courses listed below. Students declaring a three-year General Major in English must take at least 9 credit hours from the list. Students declaring a Minor (Concentration) in English must take at least 6 credit hours from the list. Courses chosen from this list will be deemed to satisfy the previous “Special List” requirement for students in progress towards a degree with previously declared Majors or Minors (Concentrations) in English. [NOTE: From year to year, other courses may meet this requirement. Please refer to the on-line course timetable for additional information on these courses.]

| Course Number | Course Name | Credit Hours |
|----------------|---------------------------------------|--------------|
| English | | |
| ENGL 2070 | Literature of the Sixteenth Century | 6 |
| ENGL 2080 | Medieval Literature | 6 |
| ENGL 2090 | Literature of the Seventeenth Century | 6 |

| | | |
|--|--|---|
| ENGL 2120 | Literature of the Restoration and Eighteenth Century | 6 |
| ENGL 2130 | Literature of the Romantic Period | 6 |
| ENGL 2140 | Literature of the Victorian Period | 6 |
| ENGL 2170 | American Literature to 1900 | 6 |
| ENGL 3000 | Chaucer | 6 |
| ENGL 3010 | Shakespeare | 6 |
| ENGL 3020 | Milton | 6 |
| ENGL 3030 | Studies in Sixteenth-Century Literature | 3 |
| ENGL 3050 | Studies in Old English | 6 |
| ENGL 3080 | Studies in Medieval Literature | 3 |
| ENGL 3090 | Studies in Seventeenth-Century Literature | 3 |
| ENGL 3120 | Studies in Restoration and Eighteenth-Century Literature | 3 |
| ENGL 3130 | Studies in the Romantics | 3 |
| ENGL 3140 | Studies in the Victorians | 3 |
| ENGL 3180 | Studies in Renaissance Literature | 3 |
| NOTE: Restrictions apply to the following courses regarding their use for credit in English (ENGL 2490) and for fulfillment of the literature prior to 1900 requirement. See program note ⁴ . Contact the department for further information on restrictions. | | |
| Classics (Classical Studies) | | |
| CLAS 2612 | Greek Literature in Translation (taught with ENGL 2490) | 3 |
| CLAS 2622 | Latin Literature in Translation (taught with ENGL 2490) | 3 |
| Icelandic | | |
| ICEL 3320 | Old Norse Mythology (taught with ENGL 2490) | 3 |
| ICEL 3330 | Icelandic Sagas in Translation (taught with ENGL 2490) | 3 |

8.10.3 English Course Descriptions-0 Level

ENGL 0930 English Composition **Cr. Hrs. 3**

Designed to help students write better essays. Course focuses on effective expression; sentence, paragraph, and essay construction; and the writing process. A great deal of writing is required; instructors address the particular needs of individual students. Students may not enter English courses numbered above the 1000 level directly from this course. This course is not designed to teach English as a second language. This course does not satisfy the Humanities requirement.

ENGL 0940 Writing About Literature **Cr. Hrs. 3**

Designed to supplement and to complement ENGL 0930, the course may be taken by itself. The course focuses on writing about literature through the study of the short story and poetry. Students may not normally enter English courses numbered above the 1000 level directly from this course. This course is not designed to teach English as a second language. This course does not satisfy the Humanities requirement.

8.10.3 English Course Descriptions-1000 Level

ENGL 1200 Representative Literary Works **Cr. Hrs. 6**

An introduction to the study of literature, with emphasis on the development of reading and writing skills. Poetry, prose and drama from various historical periods. Texts for each section will be announced. Students may not hold credit for both ENGL 1200 and ENGL 1201. English 40S or the former English 300 are strongly recommended, but English 40G or the former 301 or 305 will also be accepted.

ENGL 1300 Literature since 1900 **Cr. Hrs. 6**

An introduction to the study of literature, with emphasis on the development of reading and writing skills. Poetry, prose and drama from Canada, Britain, the United States and other countries. Texts for each section will be announced. Students may not hold credit for both ENGL 1300 and ENGL 1301. English 40S or the former English 300 are strongly recommended, but English 40G or the former 301 or 305 will also be accepted.

ENGL 1340 Introduction to Literary Analysis **Cr. Hrs. 3**

This course is intended to provide students with reading, writing, and analytic skills required for literary studies.

ENGL 1400 Thematic Approaches to the Study of Literature **Cr. Hrs. 3**

An introduction to the study of literature, with emphasis on the development of reading and writing skills. Poetry, prose, and drama from various thematic perspectives. Texts for each section will be announced. English 40S or the former English 300 are strongly recommended, but English 40G or the former 301 or 305 will also be accepted. Students may not hold credit for both ENGL 1400 and the former ENGL 1310.

8.10.3 English Course Descriptions-2000 Level

ENGL 2000 Intermediate Writing and Research **Cr. Hrs. 6**

Designed to teach students how to read, write, and research at the university level, this course stresses effective expository writing, prose reading, and research skills. There is no prerequisite for this course. Students may not hold credit for both ENGL 2000 and ENGL 2001. NOTE: Credit in ENGL 2000 is acceptable toward a degree in Arts or Science, but does not satisfy the humanities requirement in the Faculty of Arts. It may not be offered for credit in the 30 hours for a Major (General) or the 18 hours for a Minor but may be offered for credit in the 48 hours for the Major (Advanced).

ENGL 2070 Literature of the Sixteenth Century **Cr. Hrs. 6**

A survey of poetry, prose and drama by major and minor writers in historical context. Students may not hold credit for both ENGL 2070 and ENGL 2071. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2080 Medieval Literature **Cr. Hrs. 6**

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2090 Literature of the Seventeenth Century **Cr. Hrs. 6**

A survey of poetry, prose and drama by major and minor writers in historical context. Students may not hold credit for both ENGL 2090 and ENGL 2091. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2120 Literature of the Restoration and Eighteenth Century **Cr. Hrs. 6**

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2130 Literature of the Romantic Period Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2140 Literature of the Victorian Period Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2160 British Literature since 1900 Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Students may not hold credit for both ENGL 2160 and ENGL 2161. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2170 American Literature to 1900 Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2180 American Literature since 1900 Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2190 Special Topics Cr. Hrs. 3

Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 2270 Canadian Literature Cr. Hrs. 6

A survey of poetry, prose and drama by major and minor writers in historical context. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2490 Literature in Translation Cr. Hrs. 3

Content of this course will vary from year to year and from section to section. See the course descriptions available from the English Department. Each section of this course will be double-numbered with the department of the instructor teaching the course. Restrictions: See note 4 in the program table under section 8.10.2 English. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 2550 Critical Practise Cr. Hrs. 3

An introduction to the critical idioms and methods for the analysis of literary texts. This course emphasizes the application of critical idioms and methods in the analysis of literary texts. Students may not hold credit for both ENGL 2550 and the former ENGL 2800. Prerequisite: [a grade of "C" or

better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2570 The Novel Cr. Hrs. 6

A survey of the development of the novel as a genre. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2600 Writing and Gender Cr. Hrs. 3

The literary representation of gender, the influence of the author's gender on writing, and other issues of gender in literature. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2620 Introduction to Print Culture and Book History 3 Cr. Hrs.

This course will introduce students to a broad range of methodologies and topics important for the study of book history, print and post-print culture. Students will study texts from and/or about the four main areas of book history: manuscript, hand-press printing, machine press printing, and digital publishing while also being introduced to the methodologies of authorship and reception studies. Prerequisite: [a grade of "C" or better in one of: ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (the former ENGL 1310) and ENGL 1340].

ENGL 2640 History of Critical Theory: From Plato to the Present Cr. Hrs. 6

A survey of critical theory, with some emphasis on application. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2760 Introductory Creative Writing Cr. Hrs. 3

Offers students the chance to explore the basic forms of creative writing - poetry, fiction, and drama - whether or not they have made previous formal attempts to write in these forms. A sample of the student's writing is not required for admission to this course. The format is seminar and workshop and will include, as needed, lectures on the fundamentals of creative writing. Students may not register concurrently for ENGL 2760 and ENGL 3500. Not open to students who have previously obtained credit for any of ENGL 3500 or the former ENGL 3790. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (the former ENGL 1310) and ENGL 1340].

ENGL 2830 Literature of Africa and/or the Caribbean Cr. Hrs. 3

This course will explore the literatures of Africa and the Caribbean by writers from Nigeria, South Africa, Kenya, Zimbabwe, Grenada, Jamaica, and/or Trinidad. We will also examine the theories often associated with postcolonialism - theories of marginality, power, alterity, ethnicity, race, locality, space, the subaltern, mimicry, hybridity, nationalism, diaspora, class, migration, multiculturalism, minority discourse, resistance, and historical revisionism - in a comparative context. Accordingly, we will be reading both fictional and theoretical works. The central objective of this course is to offer an overview of some contemporary world literature written in English. Students will also be encouraged to examine the texts from a variety of complimentary literary perspectives including new historicism, feminism, and Marxism. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2900 Genre Cr. Hrs. 3

Selections in literature of a particular genre. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 2940 Short Fiction I Cr. Hrs. 3

Representative writers. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2960 Drama 1 Cr. Hrs. 3

An introduction to dramatic forms and conventions. Students may not hold credit for both ENGL 2960 and ENGL 2961. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

ENGL 2980 Poetry 1 Cr. Hrs. 3

Introduction to poetic language and forms. Prerequisite: [a grade of "C" or better in ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or [a grade of "C" or better in each of ENGL 1400 (or the former ENGL 1310) and ENGL 1340].

8.10.3 English Course Descriptions-3000 Level

ENGL 3000 Chaucer Cr. Hrs. 6

Critical study of the works of this author, including historical context. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

ENGL 3010 Shakespeare Cr. Hrs. 6

Critical study of the works of this author, including historical context. Students may not hold credit for both ENGL 3010 and ENGL 3011. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

ENGL 3020 Milton Cr. Hrs. 6

Critical study of the works of this author, including historical context. Students may not hold credit for both ENGL 3020 and the former ENGL 3021. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

ENGL 3030 Studies in Sixteenth-Century Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3050 Studies in Old English Cr. Hrs. 6

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3080 Studies in Medieval Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3090 Studies in Seventeenth-Century Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are

asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3120 Studies in Restoration and Eighteenth-Century Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3130 Studies in the Romantics Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3140 Studies in the Victorians Cr. Hrs. 3

Students may not hold credit for both ENGL 3140 and ENGL 3141. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3170 Studies in American Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3180 Studies in Renaissance Literature Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3190 Studies in Special Topics Cr. Hrs. 6

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3270 Studies in Canadian Literature Cr. Hrs. 3

Students may not hold credit for both ENGL 3270 and ENGL 3271. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3500 Creative Writing Cr. Hrs. 6

This advanced seminar will include practical and theoretical components and will focus on the generation and revision of work within the main literary genres: prose, poetry, drama, and memoir, with an emphasis on preparing pieces for publication. Students may not hold credit for both ENGL 3500 and the former ENGL 3790. Prerequisite: [a grade of "C" or better in ENGL 2760] or written consent of instructor, based on a letter of application and a writing sample to be submitted electronically to the Department general office no later than one month prior to the start of the course.

ENGL 3530 Special Topics in Creative Writing Cr. Hrs. 3

This advanced studies course will include practical and theoretical components and will focus on a particular area of writing craft or poetics without an emphasis on end-of-term publication or production. Possible topics include prose fiction, poetry, memoir, dramaturgy, and screenwriting. Prerequisites: [a grade of "C" or better in ENGL 2760] or written consent of instructor, based on a letter of application and a writing sample to be submitted electronically to the Department general office no later than one month prior to the start of the course. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3540 Special Topics in Creative Writing 2 Cr. Hrs. 6

This advanced studies course will include practical and theoretical components and will focus, in a more sustained way than does ENGL 3530, on a particular area of writing craft or poetics without an emphasis on end-of-term publication or production. Possible topics include prose fiction, poetry, memoir, dramaturgy, and screenwriting. Prerequisites: [a grade of "C" or better in ENGL 2760] or written consent of instructor, based on a letter of application and a writing sample to be submitted electronically to the Department general office no later than one month prior to the start of the course. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3550 Studies in British Literature since 1900 Cr. Hrs. 6

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3630 Studies in Critical Theory Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3660 Special Studies Cr. Hrs. 6

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3670 Studies in the Novel Cr. Hrs. 6

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. Students may not hold credit for both ENGL 3670 and ENGL 3671. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3800 Special Studies 1 Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3890 Studies in Writing and Gender Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website

for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3960 Drama 2 Cr. Hrs. 3

Advanced study of selected topics. Students may not hold credit for both ENGL 3960 and ENGL 3961. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions.

ENGL 3970 Poetry 2 Cr. Hrs. 3

Advanced study of selected topics. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions.

ENGL 3980 Studies in Modernism Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 3990 Studies in Post-Modernism Cr. Hrs. 3

Prerequisite: a grade of "C" or better in six hours of English at the 2000 level. NOTE: The content of this course will vary from year to year. Students are asked to consult the Department of English, Theatre, Film & Media website for detailed course descriptions. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.10.3 English Course Descriptions-4000 Level**ENGL 4630 Honours Seminar 1 Cr. Hrs. 3**

This course may vary from year to year depending on the needs and interests of instructors and students. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 4640 Honours Seminar 2 Cr. Hrs. 3

This course may vary from year to year depending on the needs and interests of instructors and students. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ENGL 4770 Honours Seminar 1 Cr. Hrs. 6

This course may vary from year to year depending on the needs and interests of instructors and students. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.10.4 Film Studies

Chair: George Toles

Program Office: 360 University College

Telephone: 204 474 9581

E-mail: filmstudies@umanitoba.ca

8.10.5 Film Studies Program Information

Our knowledge and perception of the modern world is shaped by film and related televisual and digital media. Film is a social, cultural, and historical document that, in addition to being worthy of study as an artistic medium, also explores topics and issues of value to many other disciplines (philosophy, sociology, gender studies, history, art). Instructors in this program include people who make films, write about film and other media forms, and who are well prepared to discuss film history, film as cultural

artifact and the connections between film, television, on-line media, and other areas of knowledge.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see [Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs](#).

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both [FILM 1290](#) and [FILM 1310](#). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both [FILM 1290](#) and [FILM 1310](#).

8.10.6 Film Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL MAJOR¹ TOTAL: 30 CREDIT HOURS | | | |
| FILM 1290 and FILM 1310 | 24 credit hours in Film Studies courses, including FILM 3420 | | |
| SINGLE ADVANCED MAJOR¹ TOTAL: 60 CREDIT HOURS | | | |
| FILM 1290 and FILM 1310 | <ul style="list-style-type: none"> • 42 credit hours in Film Studies including FILM 3420 and an additional 6 credit hours in courses numbered at the 3000 level • 12 credit hours from List A and B of which at least 6 credit hours must be from List A | | |
| DOUBLE ADVANCED MAJOR¹ TOTAL: 42 CREDIT HOURS | | | |
| FILM 1290 and FILM 1310 | <ul style="list-style-type: none"> • FILM 2280; FILM 2380 or FILM 2390 or FILM 2430; FILM 3420 or ENGL 2640 • 24 additional credit hours in Film Studies at the 2000 level and above (of the 24 credit hours, at least 6 credit hours, excluding FILM 3420, must be at the 3000 level) | | |
| MINOR (CONCENTRATION)¹ TOTAL: 18 CREDIT HOURS | | | |
| FILM 1290 and FILM 1310 | 12 credit hours in Film Studies courses | | |
| NOTE: | | | |
| ¹ The content of topics courses (FILM 2380, FILM 2390, FILM 2460, FILM 3250, FILM 3260, FILM 3270, FILM 3400, FILM 3410) will vary from term to term and may be taken more than once for credit. | | | |
| List A | | | |
| Classics | | | |
| CLAS 2612 | Greek Literature in Translation | 3 | |
| CLAS 2622 | Latin Literature in Translation | 3 | |
| CLAS 3680 | Studies in a Classical Literary Genre 1 | 3 | |
| English, Theatre, Film & Media | | | |
| ENGL 1200 | Representative Literary Works | 6 | |
| ENGL 1300 | Literature since 1900 | 6 | |
| ENGL 2170 | American Literature to 1900 | 6 | |
| ENGL 2180 | American Literature since 1900 | 6 | |

| | | |
|------------------------------------|--------------------------------|---|
| ENGL 2270 | Canadian Literature | 6 |
| ENGL 2960 | Drama 1 | 3 |
| ENGL 3010 | Shakespeare | 6 |
| ENGL 3270 | Studies in Canadian Literature | 3 |
| ENGL 3500 | Creative Writing | 6 |
| ENGL 3670 | Studies in the Novel | 6 |
| ENGL 3960 | Drama 2 | 3 |
| ENGL 3980 | Studies in Modernism | 3 |
| French, Spanish and Italian | | |
| FREN 3500 | Littérature du 17e siècle (B) | 3 |
| FREN 3580 | Travail indépendant (A, B) | 3 |
| Judaic Studies | | |
| HEB 2210 | Modern Hebrew Literature | 6 |

| | | |
|---|-----------------------------------|---|
| List B | | |
| Faculty of Arts | | |
| English, Theatre, Film & Media | | |
| THTR 1220 | Introduction to Theatre | 6 |
| THTR 2150 | Theatrical Techniques: Onstage | 6 |
| THTR 2470 | Fundamentals of Dramatic Analysis | 3 |
| THTR 2480 | Theatre History | 3 |
| THTR 3460 | Theory of Drama and Performance | 3 |
| THTR 3470 | Text and Performance | 3 |
| School of Art | | |
| FAAH 1030 | Introduction to Art 1A | 3 |
| FAAH 1040 | Introduction to Art 2A | 3 |

8.10.7 Film Studies Course Descriptions-1000 Level

FILM 1290 The Art of the Film 1

Cr. Hrs. 3

The study of film as an art form, entertainment and document.

FILM 1310 Film History

Cr. Hrs. 3

In this course students will examine films from more than one period in film history, exploring the relationships among and between films in terms of genre, style, theme, structure, and other aesthetic elements. Students will study films selected from various periods of world cinema, taking into consideration how and in what ways films bear the traces of their time and place, or are affiliated with relevant movements in art, history, or society, or have been shaped by technical and artistic developments in the art of film. Students may not hold credit for both FILM 1310 and the former FILM 1300. Prerequisite: [a grade of "C" or better in FILM 1290] or written consent of instructor.

8.10.7 Film Studies Course Descriptions-2000 Level

FILM 2280 Film and Literature

Cr. Hrs. 6

The interrelationships between literature and film through an analysis of significant films, novels, poems and plays. Special attention to adaptations of Shakespeare, modern drama, the 19th century novel, the modern novel, and popular fiction. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 2300 The Popular Film

Cr. Hrs. 3

Current trends in film as a form of culture. Emphasis on recently released films as mirrors of existing social myths and values. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 2330 Film and Contemporary Thought

Cr. Hrs. 3

Recent films viewed in the light of current intellectual developments. Screenings are complemented by readings in contemporary political theory, philosophy, art, psychology, critical theory, etc. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 2370 Experimental Cinema **Cr. Hrs. 3**

Formal innovations in avant-garde and underground films and videos, their significance and influence on the feature film industry.

FILM 2380 The International Cinema 1 **Cr. Hrs. 3**

An examination of major works of international cinema, focusing upon the contributions of individual countries, or relevant global issues. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 2390 The International Cinema 2 **Cr. Hrs. 3**

An examination of major works of international cinema, focusing upon the contributions of individual countries, or relevant global issues. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 2400 The American Film to 1950 **Cr. Hrs. 3**

The aesthetic development of the American Film from the early days until the beginning of television. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 2410 The American Film from 1950 **Cr. Hrs. 3**

An examination of the Hollywood film from the decline of the studio system. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 2420 Realism and Film **Cr. Hrs. 3**

Theories and forms of the non-fiction film as an art form, an information carrier and a propaganda tool.

FILM 2430 The Canadian Film **Cr. Hrs. 3**

The development of the film industry in Canada in its varied forms, with emphasis upon key films, regional differences and Manitoba contributions.

FILM 2460 Film Genres **Cr. Hrs. 3**

An examination of a major cinematic genre (e.g, the gangster film, the western, the musical) with emphasis upon the permanence and evolution of generic conventions and the ability of filmmakers to register personal visions within these conventions. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.10.7 Film Studies Course Descriptions-3000 Level

FILM 3250 Special Topics in Film 1 **Cr. Hrs. 3**

An intensive examination of selected topics in film. Contents of the course will vary according to the needs and interests of students and faculty.

Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 3260 Special Topics in Film 2 **Cr. Hrs. 3**

An intensive examination of selected topics in film. Contents of the course will vary according to the needs and interests of students and faculty. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] and written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 3270 Special Topics in Film 3 **Cr. Hrs. 6**

An intensive examination of selected topics in film including creative filmmaking projects. Contents of the course will vary according to the needs and interests of students and faculty. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] and written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 3400 The Director's Cinema 1 **Cr. Hrs. 3**

An intensive critical look at the career of one or two major filmmakers. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 3410 The Director's Cinema 2 **Cr. Hrs. 3**

An intensive critical look at the career of one or two major filmmakers. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FILM 3420 Film Theory **Cr. Hrs. 3**

A survey of Film Theory from its beginnings to the present: Eisenstein to André Bazin to Christian Metz and others (film theories, not reviewers). Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 3430 Screenwriting **Cr. Hrs. 3**

Description An introduction to the techniques and procedures of screenwriting. Students will be expected to complete a screenplay. Students may not hold credit for both FILM 3430 and Screenwriting as previously offered under the title of Special Topics. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 3440 Filmmaking **Cr. Hrs. 3**

Basic 16mm filmmaking equipment is used to understand the rudiments of cinematography, editing, and lighting. Students will make two films and edit some pre-shot footage. Students may not hold credit for both FILM 3440 and Filmmaking previously offered under the title of Special Topics. Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 3450 The Animated Film **Cr. Hrs. 3**

The art of animation from early cell and puppet films to computer animation and current experimentation. Special attention is given to the

"Golden Age of Animation" and to Canada's continuing contribution.
 Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 3460 Acting for the Camera Cr. Hrs. 3

This course is a practical exploration of the acting techniques appropriate for work in film and television. Each student will be required to perform a significant number of scene bits and a few full scenes on video camera. Students will develop skills connected with directing actors in film; intensive preparatory scene analysis, storyboarding, and camera operation during performance. Students may not hold credit for both FILM 3460 and Acting for the Camera as previously offered under the title of Special Topics.
 Prerequisite: [a grade of "C" or better in each of FILM 1290 and FILM 1310 (or the former FILM 1300)] or written consent of instructor.

FILM 3650 Advanced Filmmaking Cr. Hrs. 3

This course is for students who have taken FILM 3440 Basic Filmmaking and offers an opportunity to pursue longer, more technically ambitious work. Students are required to shoot one (1) 10 minute 16mm film; transfer that film to video; edit and soundtrack it. Prerequisite: [a grade of "C+" or better in FILM 3440] and written consent of instructor.

8.10.8 Theatre Program

Program Chair: William Kerr
 Program Office: 360 University College
 Telephone: 204 474 9581
 E-mail: theatre@umanitoba.ca

8.10.9 Theatre Program Information

Theatre is a way of finding out what it means to be human and is therefore a very effective component of a liberal, humanist education. The Theatre Program is focused yet multi-faceted, offering both creative and intellectual opportunities. An intensive, hands-on experience in every aspect of play creation is a hallmark of University of Manitoba Theatre. The interrelationship between the academic program and the Black Hole Company provides students with excellent balance in the creation and interpretation of theatre.

The program provides excellent preparation for professional acting and technical training, while also offering a particular focus on new play development and directing. Many University of Manitoba Theatre graduates have gone on to pursue professional careers in theatre, opera, and film, with or without further study. Many other students have pursued graduate studies or have taken the skills of theatre and applied them in making an impact in careers as diverse as education, advertising, the media, law, business, politics, psychology, fine arts, and design.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 4: Basic Faculty Regulations for the Three Programs Leading to a B.A.

Major Program

For entry to the General Major and Double Advanced Major, the prerequisite is a grade of "C" or better in [THTR 1220](#). For entry to the Single Advanced Major, the prerequisite is a grade of "C" or better in [THTR 1220](#) and a grade of "C" or better in [ENGL 1200](#) or [ENGL 1300](#) or both [ENGL 1400](#) and [ENGL 1340](#). For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

It is not possible for students who have previously completed a Major in Drama to complete a Minor in Theatre.

Courses used toward the Major in Theatre may not be used for a Minor in the other areas (English or Film Studies) and no more than 6 credit hours numbered at the 1000 level in addition to [THTR 1220](#), may be credited towards a Theatre Major.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in [THTR 1220](#).

8.10.10 Theatre

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| GENERAL MAJOR¹ TOTAL: 30 CREDIT HOURS | | | |
| THTR 1220 | <ul style="list-style-type: none"> • THTR 2160; THTR 2470 plus 6 credit hours from THTR 2150, THTR 2170, THTR 2180, THTR 2490 • 6 credit hours from THTR 2480, THTR 2600, THTR 3460, THTR 3470, THTR 3610, THTR 3620, THTR 3630, THTR 3640 • 3 additional credit hours from Theatre courses specified above and/or from List A | | |
| SINGLE ADVANCED MAJOR^{1,2} TOTAL: 54 CREDIT HOURS | | | |
| THTR 1220; ENGL 1200 or ENGL 1300 or both ENGL 1400 and ENGL 1340 | <ul style="list-style-type: none"> • THTR 2160; THTR 2470 plus 6 credit hours from THTR 2150, THTR 2170, THTR 2180, THTR 2490 • 12 credit hours from THTR 2480, THTR 2600, THTR 3460, THTR 3470, THTR 3610, THTR 3620, THTR 3630, THTR 3640 • 15 additional credit hours from Theatre courses specified above and/or from List A | | |
| DOUBLE ADVANCED MAJOR^{1,2,3} TOTAL: 42 CREDIT HOURS | | | |
| THTR 1220 | <ul style="list-style-type: none"> • THTR 2470 • 9 credit hours from THTR 2150, THTR 2160, THTR 2170, THTR 2180, THTR 2490, THTR 3470 • 24 additional credit hours from Theatre courses at the 2000 level and above | | |
| MINOR (CONCENTRATION)¹ TOTAL: 18 CREDIT HOURS | | | |
| THTR 1220 | 12 credit hours from THTR 2150, THTR 2160, THTR 2170, THTR 2180, THTR 2470, THTR 2480, THTR 2490, THTR 2600, THTR 3460, THTR 3470, THTR 3610, THTR 3620, THTR 3630, THTR 3640 | | |
| NOTES: | | | |
| ¹ The content of topics courses (THTR 2600, THTR 3470, THTR 3610, THTR 3620) will vary from term to term and may be taken more than once for credit. | | | |
| ² It is recommended that students complete a three credit hour theory course, specifically THTR 3460. | | | |
| ³ It is strongly recommended that students enrolled in a Double Advanced Major in Theatre and Film Studies complete THTR 2160. | | | |

| List A | | |
|--------------------------------|-------------------------------|---|
| English, Theatre, Film & Media | | |
| ENGL 1200 | Representative Literary Works | 6 |
| ENGL 1300 | Literature since 1900 | 6 |

| | | |
|-----------|--|---|
| ENGL 2270 | Canadian Literature | 6 |
| ENGL 2760 | Introductory Creative Writing | 3 |
| ENGL 2960 | Drama 1 | 3 |
| ENGL 3010 | Shakespeare | 6 |
| ENGL 3500 | Creative Writing [not available for credit with ENGL 2760] | 6 |
| ENGL 3960 | Drama 2 | 3 |
| ENGL xxxx | English, Theatre, Film & Media Department Special Studies courses approved in advance by the chair of the Theatre Program. | |

The content of English "Studies" courses varies from year to year; when the proportion of dramatic literature studied is acceptably high, that offering of the course may be used for credit toward a Theatre Major.

| English, Theatre, Film & Media | | |
|--------------------------------|-------------------------------|---|
| FILM 1290 | The Art of the Film 1 | 3 |
| FILM 1310 | Film History | 3 |
| FILM 2280 | Film and Literature | 6 |
| FILM 2300 | The Popular Film | 3 |
| FILM 2330 | Film and Contemporary Thought | 3 |
| FILM 2370 | Experimental Cinema | 3 |
| FILM 2380 | The International Cinema 1 | 3 |
| FILM 2390 | The International Cinema 2 | 3 |
| FILM 2400 | The American Film to 1950 | 3 |
| FILM 2410 | The American Film from 1950 | 3 |
| FILM 2420 | Realism and Film | 3 |
| FILM 2430 | The Canadian Film | 3 |
| FILM 2460 | Film Genres | 3 |
| FILM 3250 | Selected Topics in Film 1 | 3 |
| FILM 3260 | Selected Topics in Film 2 | 3 |
| FILM 3270 | Special Topics in Film 3 | 6 |
| FILM 3400 | The Director's Cinema 1 | 3 |
| FILM 3410 | The Director's Cinema 2 | 3 |
| FILM 3420 | Film Theory | 3 |
| FILM 3430 | Screenwriting | 3 |
| FILM 3440 | Filmmaking | 3 |
| FILM 3450 | The Animated Film | 3 |
| FILM 3460 | Acting for the Camera | 3 |

8.10.11 Theatre Course Descriptions-1000 Level

THTR 1220 Introduction to Theatre Cr. Hrs. 6

A study of plays both as literature and as texts for stage presentation. The course will include practical work in studio sessions.

8.10.11 Theatre Course Descriptions-2000 Level

THTR 2150 Theatrical Techniques: Onstage Cr. Hrs. 6

Advanced acting and an introduction to the fundamentals of directing. Lectures on dramatic and theatrical theory, and the analysis of representative plays; workshops on acting and directing, including the presentation of scenes; participation in the current Black Hole Theatre season. Prerequisite: [a grade of "C" or better in THTR 1220] and written consent of instructor.

THTR 2160 Theatrical Techniques: Backstage Cr. Hrs. 6

An introduction to the backstage arts and crafts of the Theatre: set, props, and costume design and construction; lighting and sound design and execution; stage management; company management. Practical projects required in conjunction with the current Black Hole Theatre season, the nature of the projects to be determined by the student's interests and the need of the company. Prerequisite: [a grade of "C" or better in THTR 1220] and written consent of instructor.

THTR 2170 Specialized Practical Training 1 Cr. Hrs. 3

Two special workshops, such as voice, stage movement, mime, or directing, from the Prairie Theatre Exchange Adult Program and approved in advance by the University of Manitoba Theatre Program. Students may hold credit for only two of: THTR 2170 or THTR 2180 or THTR 2490. Prerequisite: [a grade of "C" or better in THTR 1220] and written consent of the Theatre program chair.

THTR 2180 Specialized Practical Training 2 Cr. Hrs. 3

Two special workshop courses, other than those credited for THTR 2170, from the Prairie Theatre Exchange Adult Program and approved in advance by the University of Manitoba Theatre Program. Students may hold credit for only two of: THTR 2170 or THTR 2180 or THTR 2490. Prerequisite: [a grade of "C" or better in THTR 1220] and written consent of the Theatre program chair.

THTR 2470 Fundamentals of Dramatic Analysis Cr. Hrs. 3

This course aims at developing critical and analytic skills specific to the understanding of dramatic texts, through an introduction to key concepts, terminology and critical methods. Prerequisite: [a grade of "C" or better in THTR 1220 or ENGL 1200 or ENGL 1201 or ENGL 1300 or ENGL 1301] or written consent of instructor.

THTR 2480 Theatre History Cr. Hrs. 3

A study of plays, theatre architecture, dramatic theory, acting theory, and the social context in which theatre was presented in an era in the history of the theatre (e.g. Classical Greek and Roman, British Medieval and Tudor, Restoration and Seventeenth Century French). Prerequisite: [a grade of "C" or better in THTR 1220] or written consent of instructor.

THTR 2490 Specialized Practical Training 3 Cr. Hrs. 3

An alternative method of taking THTR 2170 or THTR 2180. Two special workshops, other than those credited for THTR 2170 or THTR 2180, taken one each term in a single academic year, from the Prairie Theatre Exchange Adult Program and approved in advance by the University of Manitoba Theatre Program. Students may hold credit for only two of: THTR 2170 or

THTR 2180 or THTR 2490. Prerequisite: [a grade of "C" or better in THTR 1220] and written consent of the Theatre program chair.

THTR 2600 Special Studies **Cr. Hrs. 3**

An extensive examination of selected topics that will vary from year to year, depending upon the needs and interests of the instructor and students. Prerequisite: [a grade of "C" or better in THTR 1220] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.10.11 Theatre Course Descriptions-3000 Level

THTR 3460 Theory of Drama and Performance **Cr. Hrs. 3**

Studies in major theories of drama, performance and its reception from Aristotle to the present day. Theories will be studied in conjunction with an indepth analysis of a number of dramatic texts. Prerequisite: [a grade of "C" or better in one of: THTR 2470 or ENGL 2960 or ENGL 2961] or written consent of instructor.

THTR 3470 Text and Performance **Cr. Hrs. 3**

Explores the works of a significant playwright or group of playwrights, the appropriate dramatic theory/ies, the production and performance style involved. Students may be required to direct, act and/or design. Prerequisite: [a grade of "C" or better in THTR 2150] or [a grade of "C" or better in six credit hours from: THTR 2170 or THTR 2180 or THTR 2490] or written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

THTR 3610 Special Studies 3 **Cr. Hrs. 3**

An extensive examination of selected topics that will vary from year to year, depending upon the needs and interests of the instructor and students. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

THTR 3620 Special Studies 4 **Cr. Hrs. 3**

An extensive examination of selected topics that will vary from year to year, depending upon the needs and interests of the instructor and students. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

THTR 3630 Practicum 1 **Cr. Hrs. 3**

Theatre Practicum in which the student works with a professional mentor on a production at the Prairie Theatre Exchange. Openings contingent on a match between student's theatrical field and interest and PTE's needs. Prerequisite: [a grade of "C" or better in six credit hours from: THTR 2150 or THTR 2160 or THTR 2170 or THTR 2180 or THTR 2490] and written consent of the Theatre program chair.

THTR 3640 Practicum 2 **Cr. Hrs. 6**

Theatre Practicum in which the student works with a professional mentor on a production at the Prairie Theatre Exchange. Openings contingent on a match between student's theatrical field and interest and PTE's needs. Prerequisite: [a grade of "C" or better in six credit hours from: THTR 2150 or THTR 2160 or THTR 2170 or THTR 2180 or THTR 2490; and written consent of the Theatre program chair.

8.11 French, Spanish and Italian

Head: Maria Inés Martinez

Campus Address/General Office: 430 Fletcher Argue Building
Telephone: 204 474 9313
Email Address: fsi@umanitoba.ca
Website: <http://umanitoba.ca/faculties/arts/departments/fsi/>

8.11.1 French Program Information

Romance languages — French, Spanish and Italian — are descendants of Latin and are the most widely spoken of the Romance languages. The department offers language instruction and a rich variety of literature and culture courses, with a particular emphasis on French Canadian literature. Language instruction also includes translation courses in French, Spanish and Italian.

8.11.2 French

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in FREN 1190 or FREN 1200. Only one of FREN 1190 or FREN 1200 may be used for credit in the 30 hour Major. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in FREN 1190 or FREN 1200. Only one of FREN 1190 or FREN 1200 may be used for credit in the 18 hour Minor (Concentration).

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

8.11.3 French

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| FREN 1190 or FREN 1200 | 12 credit hours from courses numbered at the 2000 level of which at least 3 credit hours must be language and 3 credit hours must be literature | 12 credit hours from courses numbered at the 3000 level of which at least 3 credit hours must be language and 3 credit hours must be literature | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| FREN 1190 or FREN 1200 | <ul style="list-style-type: none"> • 18 credit hours of French courses numbered at the 2000 level, including at least 3 credit hours in language and 3 credit hours in literature • 18 credit hours of French courses numbered at the 3000 level, including at least 3 credit hours in language and 3 credit hours in literature • 6 credit hours of French courses numbered at the 4000 level, including at least 3 credit hours in language and 3 credit hours in literature | | |

| | | | |
|---|---|---|---|
| DOUBLE ADVANCED MAJOR TOTAL: 42 CREDIT HOURS | | | |
| FREN 1190 or FREN 1200 | <ul style="list-style-type: none"> • 15 credit hours of French courses numbered at the 2000 level, including at least 3 credit hours in language and 3 credit hours in literature • 15 credit hours of French courses numbered at the 3000 level, including at least 3 credit hours in language and 3 credit hours in literature • 6 credit hours of French courses numbered at the 4000 level, including at least 3 credit hours in language and 3 credit hours in literature | | |
| MINOR (CONCENTRATION)¹ TOTAL: 18 CREDIT HOURS | | | |
| FREN 1190 or FREN 1200 | 3 credit hours in a language course numbered at the 2000 level and 3 credit hours in a literature course numbered at the 2000 level | 3 credit hours in a language course numbered at the 3000 level and 3 credit hours in a literature course numbered at the 3000 level | |
| SINGLE HONOURS^{1,4} | | | |
| FREN 1190 or FREN 1200 | <ul style="list-style-type: none"> • FREN 2660, FREN 2870, FREN 2910 • FREN 3140 • FREN 2740 or FREN 3160 • 3 credit hours of French language or civilization courses numbered at the 2000 or 3000 level • 12 credit hours of ancillary options² | <ul style="list-style-type: none"> • FREN 3100, FREN 3500, FREN 3870, FREN 3910 • FREN 2680 or FREN 2720 • 3 credit hours of French language or civilization courses numbered at the 2000 or 3000 level • 6 credit hours of free options³ • 6 credit hours of ancillary options² | <ul style="list-style-type: none"> • FREN 4710 or FREN 4730 • 9 additional credit hours of French courses numbered at the 4000 level • 6 additional credit hours of French courses numbered at the 3000 or 4000 level • 6 credit hours of free options³ • 6 credit hours of ancillary options² |
| DOUBLE HONOURS^{1,4} | | | |
| FREN 1190 or FREN 1200 | <ul style="list-style-type: none"> • FREN 2660 • FREN 2870 or FREN 2910 • 3 credit hours of French language or civilization courses numbered at the 2000 or 3000 level • 3 credit hours of French literature courses numbered at the 2000 or 3000 level • 6 credit hours of ancillary options² • 12 credit hours from second Honours field | <ul style="list-style-type: none"> • FREN 3100 or FREN 3500 • FREN 3870 or FREN 3910 • 3 credit hours of French language or civilization courses numbered at the 2000 or 3000 level • 3 credit hours of French literature courses numbered at the 2000 or 3000 level • 6 credit hours of free options³ • 12 credit hours from second Honours field | <ul style="list-style-type: none"> • FREN 4710 or FREN 4730 • 6 additional credit hours of French courses numbered at the 4000 level • 3 additional credit hours of French courses numbered at the 3000 or 4000 level • 6 credit hours of free options³ • 12 credit hours from second Honours field |

NOTES:

- ¹ Students in Year 2 will normally take courses numbered at the 2000 level and students in Year 3 will normally take courses numbered at the 3000 level.
- ² Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding French courses).
- ³ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including French courses).
- ⁴ Honours courses: all 4000 level courses.

The three areas of study are identified in the course listings with the following letters in brackets after the course title:

- A: French Language
- B: French Literature
- C: French Civilization

NOTE: Civilization courses FREN 2810 and FREN 3850 may be counted as either French language or literature credits, but not both.

The language of instruction in all French courses except FREN 1152, FREN 1154 and FREN 1200 is French. In courses FREN 1152, FREN 1154 and FREN 1200, at the discretion of the instructor, English may be used to clarify difficult points of grammar and critical analysis of literature.

With written permission of the department head, students registered on the Fort Garry campus may take courses in French language and literature at Université de Saint-Boniface.

For information regarding Canadian Studies, see Section 8.3.

8.11.4 French Course Descriptions-1000 Level

FREN 1152 Introductory French 1 Cr. Hrs. 3

(Lab required) This course is the first in the introductory French language sequence. Students are not required to register for both courses. A basic study of the fundamental structures of French including regular and irregular verbs in the present and the passé composé, with oral and written practice. For students with no prior knowledge of French or who have studied French up to and including Grade 11 or its equivalent. Students with Grade 12 French may not normally take the course. Students may not hold credit for both FREN 1152 and the former FREN 1150. Not open to students who have previously obtained credit in FREN 1154 or FREN 1190 or FREN 1200 or FREN 1252 or the former FREN 1250. Not for credit in French Major or Minor.

FREN 1154 Introductory French 2 Cr. Hrs. 3

(Lab required) This course is the second in the introductory French language sequence. Students are not required to register for both courses. A continuing study of the fundamental structures of French including the imparfait, future and conditional, with oral and written practice. For students with limited prior knowledge of French or who have studied French up to and including Grade 11 or its equivalent or who have successfully completed Introductory French 1. Students may not hold credit for both FREN 1154 and the former FREN 1150. Not open to students who have previously obtained credit in FREN 1190 or FREN 1200 or FREN 1252 or the former FREN 1250. Not for credit in French Major or Minor.

FREN 1190 Français Cr. Hrs. 6

Un cours comportant des éléments de langue, de linguistique et de littérature destiné aux étudiants issus des écoles françaises ou aux étudiants de la filière immersion. Students may not hold credit for both FREN 1190 and FREN 1200. Prerequisite: Senior Matriculation French or written consent of department head.

FREN 1200 French 1 Cr. Hrs. 6

Language study and practise and readings in French and French-Canadian culture. Students may not hold credit for both FREN 1200 and FREN 1190. Prerequisite: [Senior Matriculation French] or [a grade of "C" or better in FREN 1154 or the former FREN 1150].

FREN 1252 Français oral 1 **Cr. Hrs. 3**

For students whose mother tongue is not French, and who wish to improve their understanding, fluency and correctness in spoken French. Regular attendance is obligatory. Direct access to FREN 2610. Not open to students from Français or Immersion high school programs. Students may not hold credit for both FREN 1252 and the former FREN 1250. Prerequisite: [Senior matriculation French] or [a grade of "B" or better in FREN 1154 (or the former FREN 1150) or "C" or better in FREN 1200] or written consent of department head.

8.11.4 French Course Descriptions-2000 Level

FREN 2022 La grammaire au bureau (A) **Cr. Hrs. 3**

Ce cours vise à acquérir, analyser et pratiquer le vocabulaire du français des affaires et de l'administration. Un accent sera mis sur l'acquisition de structures grammaticales propres à la rédaction de textes du domaine des affaires. Students may not hold credit for both FREN 2022 and FREN 2630 with the topic "Français commercial." Prerequisite: [a grade of "C" or better in FREN 1190 or FREN 1200] or written consent of department head.

FREN 2610 Français oral 2 (A) **Cr. Hrs. 3**

Ce cours vise à l'amélioration de la compréhension du français parlé ainsi qu'au développement de la facilité et de la correction de l'expression orale. Une attention particulière sera vouée au développement du vocabulaire ainsi qu'à la maîtrise des structures grammaticales. Le cours n'a pas été conçu pour les étudiants qui sont déjà bilingues. Prerequisite: [a grade of "C" or better in FREN 1252 or the former FREN 1250] or written consent of department head.

FREN 2620 Grammaire et lexique (A) **Cr. Hrs. 3**

Révision intensive de la grammaire et enrichissement du vocabulaire. Prerequisite: [a grade of "C" or better in FREN 1190 or FREN 1200] or written consent of department head.

FREN 2630 Special Studies (A) **Cr. Hrs. 3**

The content of this course will vary from year to year depending on the needs and interests of instructors and students. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 2640 Special Studies (B) **Cr. Hrs. 3**

The content of this course will vary from year to year depending on the needs and interests of instructors and students. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 2660 Analyses textuelles (A) **Cr. Hrs. 3**

A partir de textes courts en prose et en vers, l'étudiant(e) apprendra à reconnaître les moyens linguistiques et stylistiques dont dispose l'auteur pour créer l'expressivité de son texte. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2680 Littérature féminine française (B) **Cr. Hrs. 3**

Une étude de textes écrits par des femmes et analysés selon la perspective des théories féministes contemporaines. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2700 Poésie et théâtre canadiens-français (B) **Cr. Hrs. 3**

Introduction à la poésie et au théâtre canadiens-français. Parmi les poètes se trouveront Nelligan, Saint-Denys Garneau et Anne Hébert. Sur la liste des dramaturges figureront Michel Tremblay, Marcel Dubé et Gratien Gélinas. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2720 Roman français du vingtième siècle (B) **Cr. Hrs. 3**

Ce cours est destiné à initier l'étudiant(e) au roman français du vingtième siècle. Les romanciers étudiés seront choisis parmi les plus connus, tels que Proust, Gide, Colette, Mauriac, Cocteau, Camus, Robbe-Grillet, Duras, Cardinal et Yourcenar. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2740 Théâtre et poésie du dix-neuvième siècle (B) **Cr. Hrs. 3**

Initiation aux poètes et aux dramaturges représentatifs des mouvements romantique, symboliste et réaliste. Parmi les auteurs choisis figureront Hugo, Vigny, Musset, Baudelaire, Rimbaud, Scribe, Dumas fils, Rostand. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2770 Littératures francophones d'Afrique et des Antilles (B) **Cr. Hrs. 3**

Études des principales tendances littéraires de l'Afrique et des Antilles francophones depuis l'époque coloniale jusqu'à nos jours: négritude, engagement anticolonial, post-indépendance et désillusion, créolité, immigration. Lecture d'oeuvres marquantes. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2780 Idéologie et oppression dans le roman français contemporain (B) **Cr. Hrs. 3**

Étude du thème de divers genres d'oppression dans le roman français contemporain. Analyse philosophique du concept de l'idéologie. Students may not hold credit for both FREN 2780 and FREN 2640 when titled "Idéologie et oppression." Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or written consent of department head.

FREN 2810 Civilisation française moderne (A, B, C) **Cr. Hrs. 3**

Ce cours a pour objet l'étude de la civilisation française au plus tôt depuis le XVII^e siècle, au plus tard depuis la Révolution. Il portera sur les transformations connues par la France dans ses structures politiques, sociales et ses modes de vie. Il s'attachera simultanément au mouvement des idées et à la création artistique dans les domaines de l'architecture, de la sculpture, de la peinture et de la musique. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2820 Le cinéma africain (B) **Cr. Hrs. 3**

Ce cours est destiné à initier l'étudiant(e) au cinéma africain. Les films étudiés, choisis parmi les plus connus, serviront à illustrer la diversité des options thématiques, esthétiques et idéologiques des cinéastes africains. Students may not hold credit for both FREN 2820 and FREN 2640 when titled "Cinéma africain." Prerequisite: [a grade of "C" or better in FREN 1190]

or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2870 Stylistique comparée 1 (A) C **r. Hrs. 3**

Initiation à la stylistique comparée du français et de l'anglais. Ce cours comporte des exercices de traduction et d'analyse de traductions. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

FREN 2910 Expression écrite 1 (A) **Cr. Hrs. 3**

Description Une étude des techniques de composition libre. Le cours comportera notamment une révision de la phrase complexe et une analyse d'éléments de rhétorique particulièrement utiles pour la rédaction en français. Prerequisite: [a grade of "C" or better in FREN 1190] or [a grade of "C+" or better in FREN 1200] or [a grade of "C" or better in FREN 2620] or written consent of department head.

8.11.4 French Course Descriptions-3000 Level

FREN 3020 Révision intensive de la grammaire française (A) **Cr. Hrs. 3**

Description Étude systématique et avancée de la grammaire française avec révision de vocabulaire. Ce cours est la suite logique de FREN 2620 (Grammaire et lexique) mais on peut s'y inscrire sans l'avoir suivi. Dans ce cours-ci, nous parlerons des nuances de la langue qui ne sont pas traitées en deuxième année mais nous reverrons aussi quelques-unes des questions fondamentales examinées auparavant. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3022 Les communications au bureau (A) **Cr. Hrs. 3**

Ce cours vise à acquérir, analyser et pratiquer le vocabulaire du français des affaires et de l'administration. Un accent sera mis sur la maîtrise des outils linguistiques et des techniques spécifiques propres à la rédaction de textes de type commercial et administratif. Students may not hold credit for both FREN 3022 and FREN 2630 with the topic "Français commercial." Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3100 Littérature française du dix-huitième siècle (B) **Cr. Hrs. 3**

Après une introduction portant sur le dix-huitième siècle en France, on étudiera quelques-uns des grands auteurs et dramaturges de ce siècle, tels Montesquieu, Voltaire, Prévost, Marivaux, Beaumarchais et Rousseau. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3140 Roman canadien-français (B) **Cr. Hrs. 3**

Ce cours est destiné à initier l'étudiant(e) au roman canadien-français. Parmi les auteurs étudiés se trouveront Hubert Aquin, Marie-Claire Blais, Roch Carrier. Un accent particulier sera mis sur l'interprétation historique. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3160 Roman et nouvelle français du dix-neuvième siècle (B) **Cr. Hrs. 3**

Étude des principaux romanciers romantiques, réalistes et naturalistes: un choix de Chateaubriand, Constant, Balzac, Sand, Flaubert, Zola, Maupassant. Prerequisite: [a grade of "C" or better in any 2000-level French

course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3350 Français oral 3 (A) **Cr. Hrs. 3**

Ce cours vise au perfectionnement de la facilité d'expression, de la correction et de la compréhension du français oral. Le professeur se servira de certains aspects de la culture canadienne-française, et dans une moindre mesure de la culture française, pour stimuler la conversation. Prerequisite: [a grade of "C" or better in FREN 2610] or written consent of department head.

FREN 3500 Littérature du 17e siècle (B) **Cr. Hrs. 3**

Ce cours constitue une analyse d'ouvrages marquants tirés du domaine de la littérature française classique. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3580 Travail indépendant (A, B) **Cr. Hrs. 3**

Ce demi-cours s'étendra sur toute la durée des deux trimestres. Chaque étudiant sera placé sous la direction d'un professeur qui l'assistera dans l'établissement d'un programme de lectures relatif à un domaine d'intérêt particulier pour l'étudiant en question. A la fin du cours l'étudiant présentera un mémoire à son directeur. Not available for credit towards a Major or Minor in French. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 3830 Special Studies (A) **Cr. Hrs. 3**

The content of this course will vary from year to year depending on the needs and interests of instructors and students. Prerequisite: [a grade of "C" or better in any 2000-level French course]. FREN 2610 may not be used as a prerequisite. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 3840 Special Studies (B) **Cr. Hrs. 3**

The content of this course will vary from year to year depending on the needs and interests of instructors and students. Prerequisite: [a grade of "C" or better in any 2000-level French course]. FREN 2610 may not be used as a prerequisite. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 3850 Civilisation canadienne-française (A, B, C) **Cr. Hrs. 3**

Aspects du développement de la culture du Canada français. Éléments de la vie politique, sociale et artistique des Québécois et des francophones hors Québec surtout au 20e siècle. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head.

FREN 3860 Études sur Beauvoir (B) **Cr. Hrs. 3**

Le but de ce cours est d'étudier l'oeuvre et la pensée de Simone de Beauvoir dont l'importance dans les études féministes continue d'être très marquée. Un choix de textes sera effectué parmi ses essais philosophiques, ses romans et son autobiographie. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

FREN 3870 Stylistique comparée 2 (A) **Cr. Hrs. 3**

Étude approfondie des principes et techniques de la traduction accompagnée d'exercices et d'analyses de traductions d'un niveau élevé. Prerequisite: [a grade of "C" or better in FREN 2870] or written consent of department head.

FREN 3910 Expression écrite 2 (A) **Cr. Hrs. 3**

Ce cours est une étude des techniques de composition libre à un niveau avancé. Il comportera notamment des exercices avec la phrase complexe et l'étude et la pratique d'un certain nombre de genres de français écrit. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head.

FREN 3920 Enjeux majeurs en littératures francophones postcoloniales (B) Cr. Hrs. 3

L'objectif de ce cours est d'approfondir un aspect important en littératures francophones postcoloniales d'Afrique et des Caraïbes ou d'étudier les oeuvres d'un auteur francophone majeur originaire d'Afrique ou des Caraïbes. Students may not hold credit for both FREN 3920 and FREN 3840 when titled "Littérature africaine." Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 may not be used as a prerequisite.

8.11.4 French Course Descriptions-4000 Level

FREN 4610 Études spécialisées Cr. Hrs. 3

Le contenu de ce cours variera d'année en année selon les besoins et les intérêts des étudiants et du professeur. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

FREN 4620 Pratiques et théories critiques (B) Cr. Hrs. 3

Ce cours est destiné à initier l'étudiant(e) à l'analyse critique de textes littéraires. Le choix des pratiques et des théories critiques dépendra de l'instructeur. Prerequisite: written consent of department head.

FREN 4640 Séminaire: Littérature française du vingtième siècle (B) Cr. Hrs. 3

Le but de ce cours est d'offrir à l'étudiant(e) une introduction à certaines oeuvres littéraires complexes, mais essentielles, de ce siècle, dans les différents ordres de la poésie, du théâtre et du roman. Elles pourraient être prises à des auteurs comme Claudel, Valéry, Saint-John Perse, Antonin Artaud, Proust, Gide, Sartre, Yourcenar. Prerequisite: written consent of department head.

FREN 4650 Études sur l'Ancien Régime (B) Cr. Hrs. 3

L'étude des oeuvres d'un auteur, d'une période ou d'un thème d'avant la Révolution française, du XVIe au XVIIIe siècles. Le choix des oeuvres, de la période ou du thème dépendra des besoins et des intérêts des étudiants et de l'instructeur. Prerequisite: written consent of department head.

FREN 4710 Séminaire de langue (A) Cr. Hrs. 3

L'objet de ce cours est d'affermir la maîtrise du français chez l'étudiant(e) par des études de grammaire approfondie, une approche méthodique des problèmes majeurs de rhétorique et de la stylistique, ainsi que par une pratique régulière de l'expression orale destinée à en assurer l'aisance et la correction. Prerequisite: written consent of department head.

FREN 4730 Traduction (A) Cr. Hrs. 3

Une formation dans la traduction d'extraits tirés d'oeuvres de prosateurs anglais et français. Seront également traduits des textes de nature technique traitant de l'actualité politique, sociale, économique, juridique, etc. Prerequisite: written consent of department head.

8.11.5 Spanish

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in SPAN 1180, or a grade of "C" or better in both SPAN 1190 and SPAN 1262 (or SPAN 1290), or a grade of "C" or better in both SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

It is recommended that students who wish to Major in Spanish take the introductory course in the Summer Session prior to entering the fall program, or take SPAN 1262 and SPAN 1272 (or SPAN 1290) in the Summer Session prior to their entry into the second year. This will allow for a wider variety of course selections in the final two years.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in SPAN 1180, or a grade of "C" or better in both SPAN 1190 and SPAN 1262 (or SPAN 1290), or a grade of "C" or better in both SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level.

Other

Students entering the university with prior knowledge of Spanish may be allowed 'prerequisite standing' in course SPAN 1180 by the Spanish section of the department. Special permission is required to enter a higher numbered course.

All Spanish courses except SPAN 1180 and SPAN 1190 are taught in Spanish.

With written permission of the department head, students registered on the Fort Garry campus may take courses in Spanish language and literature at Université de Saint-Boniface.

For information regarding the Minor program in Latin American Studies, see Section 8.19.

8.11.6 Spanish

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--------|
| GENERAL MAJOR (OPTION 1)¹ TOTAL: 30 CREDIT HOURS | | | |
| SPAN 1180 | SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses numbered at the 2000 level | <ul style="list-style-type: none"> • SPAN 2550 • 9 credit hours from Spanish courses numbered at the 2000 level • 6 credit hours from Spanish courses numbered at the 3000 level | |
| GENERAL MAJOR (OPTION 2)¹ TOTAL: 30 CREDIT HOURS | | | |
| SPAN 1190 | • SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses | 12 credit hours from Spanish courses numbered at the 3000 level | |

| | | | |
|--|--|--|---|
| | numbered at the 2000 level • SPAN 2550 • 6 credit hours from Spanish courses numbered at the 2000 level | | |
| GENERAL MAJOR (OPTION 3)² TOTAL: 30 CREDIT HOURS | | | |
| SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level | • SPAN 2550 • 9 credit hours from Spanish courses numbered at the 2000 level | 12 credit hours from Spanish courses numbered at the 3000 level | |
| SINGLE ADVANCED MAJOR (OPTION 1)¹ TOTAL: 48 CREDIT HOURS | | | |
| SPAN 1180 | SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses numbered at the 2000 level | • SPAN 2550 • 12 credit hours from Spanish courses numbered at the 2000 level • 6 credit hours from Spanish courses numbered at the 3000 level | 15 credit hours from Spanish courses numbered at the 3000 level |
| SINGLE ADVANCED MAJOR (OPTION 2)¹ TOTAL: 48 CREDIT HOURS | | | |
| SPAN 1190 | • SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses numbered at the 2000 level • SPAN 2550 • 6 credit hours from Spanish courses numbered at the 2000 level | • 6 credit hours from Spanish courses numbered at the 2000 level • 9 credit hours from Spanish courses numbered at the 3000 level | 15 credit hours from Spanish courses numbered at the 3000 level |
| SINGLE ADVANCED MAJOR (OPTION 3)² TOTAL: 48 CREDIT HOURS | | | |
| SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level | • SPAN 2550 • 9 credit hours from Spanish courses numbered at the 2000 level | • 6 credit hours from Spanish courses numbered at the 2000 level • 9 credit hours from Spanish courses numbered at the 3000 level | 15 credit hours from Spanish courses numbered at the 3000 level |
| MINOR (CONCENTRATION) (OPTION 1)¹ TOTAL: 18 CREDIT HOURS | | | |
| SPAN 1180 | SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses numbered at the 2000 level | • 3 credit hours from Spanish courses numbered at the 2000 level • SPAN 2550 | |
| MINOR (CONCENTRATION) (OPTION 2)¹ TOTAL: 18 CREDIT HOURS | | | |

| | | | |
|--|--|--|--|
| SPAN 1190 | • SPAN 1262 and SPAN 1272, or SPAN 1290, or SPAN 1280 ³ and 3 credit hours from Spanish courses numbered at the 2000 level • SPAN 2550 | 6 credit hours from Spanish courses numbered at the 3000 level | |
| MINOR (CONCENTRATION) (OPTION 3)² TOTAL: 18 CREDIT HOURS | | | |
| SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level | • 3 credit hours from Spanish courses numbered at the 2000 level • SPAN 2550 | 6 credit hours from Spanish courses numbered at the 3000 level | |
| NOTES: ¹ Options 1 and 2 are not open to students with native oral fluency in Spanish. Students with native oral fluency in Spanish are advised to follow Option 3. ² Option 3 is open to students with native oral fluency in Spanish. Such students may enter Spanish courses numbered at the 2000 level with a grade of "C" or better in SPAN 1280. ³ With written consent of the department head students may be allowed to substitute both SPAN 1262 and SPAN 1272 (or SPAN 1290) with both SPAN 1280 (3) and an additional 3 credit hours of 2000 level Spanish courses. | | | |

8.11.7 Spanish Course Descriptions-1000 Level

SPAN 1180 Introductory Spanish

Cr. Hrs. 6

(Lab required) A course designed for those with little or no previous knowledge of Spanish. The course includes grammar, reading and oral practice, with language laboratory exercises. An oral approach is utilized. The student is given glimpses of cultural aspects of Spain and Spanish America. Students with Senior 4 Spanish may not normally take the course for credit. Not open to students with native oral fluency. Students may not hold credit for SPAN 1180 and any of: SPAN 1171 or SPAN 1190 or SPAN 1191 or the former SPAN 1181 (former TRAD 1181). Not open to students who have previously obtained credit in SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271.

SPAN 1190 Introductory Spanish 2

Cr. Hrs. 3

(Lab required) The second term of SPAN 1180 Introductory Spanish. This course is intended for students who have already knowledge of the alphabet and the sound system, as well as elementary comprehension, communication and writing skills equivalent to those that would be achieved in the first term of SPAN 1180. Students may not hold credit for SPAN 1190 and any of: SPAN 1191 or SPAN 1180 or the former SPAN 1181 (former TRAD 1181). Not open to students who have previously obtained credit in SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271. Prerequisite: [a grade of "C" or better in SPAN 1171] or [Senior 4 Spanish] or written consent of instructor or department head.

SPAN 1262 Intermediate Spanish Grammar and Conversation 1

Cr. Hrs. 3

(Lab required) This course is the first of the intermediate Spanish language sequence. Focus is on developing intermediate skills in reading, writing, speaking and listening. The primary goals are to build communicative

competence and enhance social and cultural awareness of the Spanish-speaking world. Not open to students with native oral fluency. Students may not hold credit for SPAN 1262 and any of: SPAN 1263 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261. Prerequisite: [a grade of "C" or better in SPAN 1180 (the former SPAN 1181 or the former TRAD 1181) or SPAN 1190 or SPAN 1191] or written consent of instructor or department head.

SPAN 1272 Intermediate Spanish Grammar and Conversation 2 **Cr. Hrs. 3**

(Lab required) This course is the second of the intermediate Spanish language sequence. Focus is on continued development of intermediate skills in reading, writing, speaking and listening. The primary goals are to further enhance communicative competence and social and cultural awareness of the Spanish-speaking world. Not open to students with native oral fluency. Students may not hold credit for SPAN 1272 and any of: SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271. Prerequisite: [a grade of "C" or better in SPAN 1262 or SPAN 1263 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261] or written consent of instructor or department head.

SPAN 1280 Spanish for Native Speakers **Cr. Hrs. 3**

A survey of grammar and writing for people with an advanced level of oral Spanish. All the class exercises, readings, activities and examinations will be in Spanish. Students may not hold credit for SPAN 1280 and any of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271. Prerequisite: written consent of instructor or department head.

SPAN 1290 Accelerated Intermediate Spanish **Cr. Hrs. 6**

(Lab required) This is a one term accelerated course which combines the content of SPAN 1262 and SPAN 1272 (or the former SPAN 1260 and the former SPAN 1270). It is a review of grammar and pronunciation structured around extensive writing practice and conversation of contemporary issues relating to the Spanish speaking world. There will be six hours of classroom instruction with a two hour laboratory per week. This course is not open to students with native oral fluency. Students may not hold credit for SPAN 1290 and any of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271. Prerequisite: [a grade of "C" or better in SPAN 1180 (or the former SPAN 1181 or the former TRAD 1181 or SPAN 1190 or SPAN 1191) or written consent of instructor or department head.

8.11.7 Spanish Course Descriptions-2000 Level

SPAN 2200 Spanish American Culture and Civilization **Cr. Hrs. 3**

A picture of the geographical, political, economic, social, artistic and cultural forces in Latin America. Essays, cultural readings, newspaper articles, magazines and films are utilized to enhance awareness and to stimulate discussion. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271] or written consent of department head.

SPAN 2210 Voices and Images of Latin America **Cr. Hrs. 3**

A study of the important figures that have influence on social and artistic movements of the Latin American culture such as Frida Khalo, Diego Rivera, Che Guevara, and Fernando Botero. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the

former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271] or written consent of department head.

SPAN 2510 Survey of Spanish Civilization **Cr. Hrs. 3**

A study of the history of Spanish culture with special stress on its non-literary arts, and selected aspects of Spanish life. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271] or written consent of department head.

SPAN 2520 Introduction to Spanish Literature **Cr. Hrs. 3**

This course will consist of an introduction to Spanish literary characteristics and the study of selected works from the major historical periods and genres. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271] or written consent of department head.

SPAN 2550 Advanced Spanish Composition **Cr. Hrs. 3**

Description Designed to enhance the student's ability in writing Spanish. Emphasis on advanced grammatical concepts and clarity of expression. Students may not hold credit for both SPAN 2550 and SPAN 2551. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261] or written consent of department head.

SPAN 2560 Advanced Spanish Conversation **Cr. Hrs. 3**

Designed to enhance the student's conversational skills. Intensive oral practise as well as written exercises based on contemporary issues. Not open to students with native oral fluency. Prerequisite: [a grade of "C" or better in both SPAN 1262 (the former SPAN 1260) and SPAN 1272 (the former SPAN 1270)] or [a grade of "C" or better in both SPAN 1263 (the former SPAN 1261 or the former TRAD 1261) and SPAN 1273 (the former SPAN 1271 or the former TRAD 1271)] or [a grade of "C" or better in SPAN 1290] or written consent of department head.

SPAN 2570 Special Studies **Cr. Hrs. 3**

The content of this course is variable, depending on the needs and interests of students and instructors. A tutorial form is used. Prerequisite: [a grade of "C" or better in any 1000-level Spanish course] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SPAN 2580 Contemporary Spanish Female Playwrights **Cr. Hrs. 3**

This course introduces students to the study of Spanish theater written by contemporary women writers. The course will explore how they use their work and the stage to denounce a contemporary Spanish society that needs to be reexamined. Analysis will underscore how these playwrights treat dis/similar subject matters: search for identity, gender, sexuality, relationships, patriarchal values, feminism, among others. The course will be taught in Spanish. All class readings and examinations are in Spanish. Prerequisite: [a grade of "C" or better in one of: SPAN 1262 or SPAN 1263 or SPAN 1272 or SPAN 1273 or SPAN 1280 or SPAN 1290 or the former SPAN 1260 or the former SPAN 1261 or the former TRAD 1261 or the former SPAN 1270 or the former SPAN 1271 or the former TRAD 1271] or written consent of department head.

8.11.7 Spanish Course Descriptions-3000 Level

SPAN 3070 Dali, Lorca, Bunuel **Cr. Hrs. 3**

Study of the three most representative members of Spanish surrealism and avant-gardism in the twentieth century. Prerequisite: [a grade of "C" or

better in any 2000-level Spanish course] or written consent of department head.

SPAN 3080 Contemporary Latin American Novel Cr. Hrs. 3

This course will concentrate on the major writers of the Latin American "Boom" such as: Gabriel Garcia Marquez, Carlos Fuentes, Julio Cortazar and Mario Vargas Llosa. It may also include other authors connected with the Boom such as: Alejo Carpentier, Juan Rulfo, Jorge Luis Borges, Manuel Puig. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3220 Contemporary Spanish Cinema Cr. Hrs. 3

A survey of Contemporary Spain through its cinema and other cultural manifestations. All the class readings, class lectures, movies and examinations are in Spanish. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3270 Special Studies Cr. Hrs. 3

The content of this course is variable, depending on the needs and interests of students and instructors. A tutorial format is used. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SPAN 3290 The Art of Translation Cr. Hrs. 3

A course on the basic techniques of translation and a study of specialized vocabulary related to the professions. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3300 Cinema and Literature Cr. Hrs. 3

A survey of the culture (Spain and Latin America) through its literature and cinema. The course will be taught in Spanish. All the readings, movies, activities and examinations will be in Spanish. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3310 Advanced Spanish Vocabulary and Composition Cr. Hrs. 3

A survey of grammar and vocabulary, the course also emphasizes and enhances students' writing abilities. The course will be taught in Spanish. All the class exercises, readings, activities and examinations will be in Spanish. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3320 Testimony and Human Rights in Latin America Cr. Hrs. 3

A survey of the culture of human rights in Latin America through its testimonial literature. The course will be taught in Spanish. All readings, activities and examinations will be in Spanish. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3330 Spanish Phonetics and Pronunciation Cr. Hrs. 3

This course includes a thorough study of advanced Spanish phonetics and pronunciation. Students may not hold credit for both SPAN 3330 and the former SPAN 3280. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3340 Spanish Syntax and Grammar Cr. Hrs. 3

This course includes a thorough study of advanced Spanish syntax and grammar. Students may not hold credit for SPAN 3340 and any of: SPAN 3441 or the former SPAN 3280. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3670 Poetry and Novel of the Golden Age Cr. Hrs. 3

This course will concentrate on major poets and novelists of the sixteenth and seventeenth centuries such as Garcilaso de la Vega, Fray Luis de Leon, S. Juan de la Cruz, Lope de Vega, Gongora, and Cervantes. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3680 Drama of the Golden Age Cr. Hrs. 3

A study of representative works by the principal dramatists of the Spanish classical period, such as Lope de Vega, Tirso de Molina, Vélez de Guervara, and Calderon de la Barca. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3780 Short Fiction in Spanish Cr. Hrs. 3

A study of short narrative fiction as a genre in Spain and Latin America through the close reading of representative works. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

SPAN 3790 Latin American Cinema and Society Cr. Hrs. 3

A survey of contemporary Latin American society through its cinema. The course will be taught in Spanish. All class readings, movies and examinations are in Spanish. Prerequisite: [a grade of "C" or better in any 2000-level Spanish course] or written consent of department head.

8.11.8 Italian

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in ITLN 1080.

It is not possible to have a Minor in Italian and a Major in Italian Studies.

Other

All Italian courses except ITLN 1080 and ITLN 3780 are taught in Italian.

Travel/study courses in Italian may be offered in the Summer Session; see department for information.

8.11.9 Italian

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--------|
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| ITLN 1080 | 6 credit hours selected from Italian courses numbered at the 2000 level | 6 credit hours selected from Italian courses numbered at the 3000 level | |

8.11.10 Italian Studies

The Major (General and Advanced) in Italian Studies is an interdisciplinary program designed to provide advanced reading, writing, oral, and translation skills in contemporary Italian language, in the context of a broad appreciation for Italian/Roman history and its contributions to art and culture. For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in ITLN 1080. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

It is not possible to have a Major in Italian Studies and a Minor in Italian.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

8.11.11 Italian Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| ITLN 1080 | ITLN 2080, or 6 credit hours selected from ITLN 2090, ITLN 2100, ITLN 2200 | 6 credit hours selected from ITLN 3050, ITLN 3060, ITLN 3760, ITLN 3770, ITLN 3780 | |
| | Plus at least 12 credit hours of courses selected from List A | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| ITLN 1080 | ITLN 2080, or 6 credit hours selected from ITLN 2090, ITLN 2100, ITLN 2200 | 6 credit hours selected from ITLN 3050, ITLN 3060, ITLN 3760, ITLN 3770, ITLN 3780 | |
| | Plus at least 30 credit hours of courses selected from List A | | |

| List A | | |
|------------------------|--|---|
| Faculty of Arts | | |
| Italian | | |
| ITLN 2200 | Let's Get Graphic: Italian through Graphic Novels | 3 |
| ITLN 3050 | Italian Through Literature | 3 |
| ITLN 3060 | Italian Through Film | 3 |
| ITLN 3760 | Italian Translation Workshop | 3 |
| ITLN 3770 | Modern Italian Usage | 3 |
| ITLN 3780 | A Voyage through the Italian Mind: An Italian Culture Course | 3 |
| Classics | | |
| CLAS 1280 | Introduction to Ancient Roman Culture | 3 |
| CLAS 2160 | Roman History: The Roman Republic, 753-30 BC | 3 |
| CLAS 2170 | Roman History: The Roman Empire, 30 BC-AD 337 | 3 |
| CLAS 2622 | Latin Literature in Translation | 3 |
| CLAS 2680 | Roman Art and Archaeology | 3 |
| LATN 1080 | Introduction to the Reading of Latin 1 | 3 |
| LATN 1090 | Introduction to the Reading of Latin 2 | 3 |
| LATN 2700 | Intermediate Readings in Latin | 3 |
| LATN 2720 | Selected Readings in Republican and Augustan Poetry | 3 |
| LATN 2740 | Selected Readings in Republican and Augustan Prose | 3 |
| LATN 2780 | History of the Latin Language | 3 |
| LATN 2800 | Readings in Medieval or Renaissance Latin | 3 |

| | | |
|---|--|---|
| LATN 3740 | Roman Comedy | 3 |
| LATN 3760 | Orations of Cicero | 3 |
| LATN 3780 | Roman Satire | 3 |
| LATN 3800 | Lyric and Elegiac Poetry of the Augustan Age | 3 |
| LATN 3820 | Virgil's Aeneid | 3 |
| LATN 3840 | Virgil's Eclogues and Georgics | 3 |
| LATN 3860 | The Roman Historians | 3 |
| LATN 3880 | Poetry of the Silver Age | 3 |
| History | | |
| HIST 2350 | Europe 1789-1870 (E) | 3 |
| HIST 2360 | Europe 1870 to the Present (E) | 3 |
| HIST 2370 | History of Europe since the French Revolution (E) | 6 |
| HIST 2900 | Topics in Social History (G) (when taught as "Topic: Italy") | 6 |
| HIST 3136 | History of Medieval Italy, 568-1300 (D) | 3 |
| HIST 3138 | History of Medieval Italy, 1300-1500 (D) | 3 |
| HIST 3140 | Medieval Italy (D) | 6 |
| HIST 3680 | Europe, 1870-1945 (E) | 6 |
| HIST 3682 | Europe 1870-1918 (E) | 3 |
| HIST 3684 | Europe 1918-1945 (E) | 3 |
| School of Art | | |
| FAAH 2060 | Medieval to Early Renaissance Art and Architecture | 3 |
| FAAH 2070 | Renaissance to Baroque Art and Architecture | 3 |
| FAAH 3130 | Topics in Medieval Art and Architecture | 3 |
| FAAH 3140 | Topics in Renaissance and Baroque Art and Architecture | 3 |
| Marcel A. Desautels Faculty of Music | | |
| MUSC 3100 | Opera Repertoire | 3 |

For course descriptions, see departmental listings.

8.11.12 Italian Course Descriptions

ITLN 1080 Introductory Italian

Cr. Hrs. 6

An introduction to the Italian language for students with little or no knowledge of Italian. The course emphasizes the learning and practise of vocabulary, grammar and the development of both written and spoken Italian. A language laboratory will help students practise and improve their oral Italian. Not open to students who have previously obtained credit in ITLN 2080.

ITLN 2080 Intermediate Italian

Cr. Hrs. 6

This course consists of a thorough review of grammatical structures for students with previous knowledge of Italian. Readings of a number of twentieth-century Italian authors are used as a basis for discussion. Language study and practise is emphasized in the classroom and in the language laboratory. Prerequisite: [a grade of "C" or better in ITLN 1080] or written consent of department head.

ITLN 2090 Speaking in Italian

Cr. Hrs. 3

Offers extensive practice in idiomatic spoken language. Grammar review with a focus on oral fluency. Conversation will be based on social, political, and cultural aspects of Italian life. Prerequisite: [a grade of "C" or better in ITLN 1080] or written consent of department head.

ITLN 2100 Writing in Italian Cr. Hrs. 3

This course strengthens writing skills in Italian, with special emphasis on the grammatical structure of the Italian language for effective communication. Prerequisite: [a grade of "C" or better in ITLN 1080] or written consent of department head.

ITLN 2200 Let's Get Graphic: Italian through Graphic Novels Cr. Hrs. 3

In this language course you will learn the four basic skills (speaking, listening, reading and writing) in the context of popular fumetti (graphic novels) in Italian culture. By the end of the course you will be able to describe people, events and situations, in the present, past and future, and you will have acquired the necessary vocabulary to communicate about everyday situations. Prerequisite: [a grade of "C" or better in ITLN 1080] or written consent of department head.

ITLN 3050 Italian Through Literature Cr. Hrs. 3

Through the study of selected works and authors, students will gain a better understanding of Italy's history and culture. Prerequisite: [a grade of "C" or better in ITLN 2080] or [a grade of "C" or better in each of ITLN 2090 and ITLN 2100] or written consent of department head.

ITLN 3060 Italian Through Film Cr. Hrs. 3

The aim of this course is to better understand modern and contemporary Italy, by viewing, meditating upon and discussing those films produced in Italy which most reflect the country, its language and culture, and its literature. Prerequisite: [a grade of "C" or better in ITLN 2080] or [a grade of "C" or better in each of ITLN 2090 and ITLN 2100] or written consent of department head.

ITLN 3760 Italian Translation Workshop Cr. Hrs. 3

A practical course on translating many types of text from and into Italian, as well as terminology development. Special emphasis on the use of the Internet and other computer-mediated resources. Prerequisite: [a grade of "C" or better in ITLN 2080] or [a grade of "C" or better in each of ITLN 2090 and ITLN 2100] or written consent of department head.

ITLN 3770 Modern Italian Usage Cr. Hrs. 3

Polish your Italian for business and professional work situations from client relations to terminology, including e-mail and Internet. Course will be customized according to students' professional interests. Prerequisite: [a grade of "C" or better in ITLN 2080] or [a grade of "C" or better in each of ITLN 2090 and ITLN 2100] or written consent of department head.

ITLN 3780 A Voyage through the Italian Mind: An Italian Culture Course Cr. Hrs. 3

This course aims to portray what it means to be Italian from an Italian's point of view. You will discover the exciting richness of the people, trends and passions, food, and pop culture of Italy, while also exploring the extraordinary contribution that Italy has made to the world. The course will be taught in English and has no prerequisite.

8.11.13 Portuguese Course Descriptions**PORT 1170 Introductory Portuguese Cr. Hrs. 6**

(Lab required) A course designed for those with little or no previous knowledge of Portuguese. The course includes grammar, reading and oral practice, with language laboratory exercises. An oral approach is utilized. The student is given glimpses of cultural aspects of Portugal and Brazil. Students with high school Portuguese or its equivalent may not normally take the course for credit. Not open to students who have previously obtained credit in PORT 1282.

PORT 1282 Intermediate Portuguese Grammar and Conversation 1 Cr. Hrs. 3

(Lab required) This course is the first of the intermediate Portuguese language sequence. Focus is on developing intermediate skills in reading, writing, speaking and listening. The primary goals are to build communicative competence and enhance social and cultural awareness of Portugal and Brazil. Not open to students with native oral fluency. Prerequisite: [a grade of "C" or better in PORT 1170] or written consent of instructor or department head.

8.12 German and Slavic Studies

Head: Stephan Jaeger
Campus Address/General Office: 328 Fletcher Argue Building
Telephone: 204 474 9370
Email Address: german_slavic@umanitoba.ca
Website: umanitoba.ca/german_and_slavic/

8.12.1 Program Information

This department's program covers two European cultural and language groups. German is the official language of five European countries and an understanding of German language and culture is essential to any understanding of European history. Courses are offered in German language, literature and culture. In Slavic Studies, the department offers language, literature and culture courses in Russian, Ukrainian and Polish — the three largest Slavic language groups. The Slavic countries of Eastern Europe exert an important influence on international affairs. In Canada, immigration from both German and Slavic language groups has contributed greatly to the country's cultural mosaic. The department also offers language courses in Hungarian.

8.12 German

For entry, continuation and graduation requirements for the General Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

General Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in 6 credit hours in German courses at any level. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate, including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in 6 credit hours in German.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Other

German courses are arranged into categories as follows:

Category A: Language courses

Category B: Literature, Culture and Applied Linguistics courses conducted in German

Category C: Literature, Culture and Applied Linguistics courses conducted in English

8.12.3 German

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---------------------------|--|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 30 credit hours of German to include: GRMN 1120 ¹ GRMN 2100 ² GRMN 2120 or GRMN 2130 or GRMN 2140 GRMN 3200 Within the required credit hours in German, 3 credit hours must be from Category B courses and a further 3 credit hours must be from Categories B or C courses | | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in German | 12 credit hours in German | | |
| SINGLE HONOURS⁴ | | | |
| <ul style="list-style-type: none"> • 36 credit hours of German (of which at least 24 credit hours must be German courses numbered at the 2000, 3000 or 4000 level) to include: GRMN 1120¹ GRMN 2100² GRMN 2120 or GRMN 2130 GRMN 2140 GRMN 3200 • In years 2 and 3 students must also complete 24 credit hours of ancillary options⁶ and 6 credit hours of free options⁵ | | <ul style="list-style-type: none"> • GRMN 4600³ • GRMN 4570 • 6 additional credit hours in German courses numbered at the 4000 level • 6 additional credit hours in German courses numbered at the 3000 or 4000 level • 12 credit hours in free options⁵ | |
| <ul style="list-style-type: none"> • Within the required credit hours in German, 15 credit hours must be from Category B courses and a further 15 credit hours must be from Categories B or C courses | | | |
| DOUBLE HONOURS⁴ | | | |
| <ul style="list-style-type: none"> • 30 credit hours of German (of which at least 18 credit hours must be German courses numbered at the 2000, 3000 or 4000 level) to include: GRMN 1120¹ GRMN 2100² GRMN 2120 or GRMN 2130 GRMN 2140 GRMN 3200 • In years 2 and 3 students must also complete 6 credit hours of ancillary options⁶ and 6 credit hours in free options⁵ • In years 2 and 3 students must also complete 24 credit hours in second Honours field | | <ul style="list-style-type: none"> • GRMN 4600³ • GRMN 4570 • 3 additional credit hours in German courses numbered at the 4000 level • 3 additional credit hours in German courses numbered at the 3000 or 4000 level • 6 credit hours in free options⁵ • 12 credit hours in other Honours field | |
| <ul style="list-style-type: none"> • Within the required credit hours in German, 12 credit hours must be from Category B courses and a further 6 credit hours must be from Categories B or C courses | | | |

NOTES:

¹ Students with superior language ability will not be required to complete GRMN 1120 if they complete either GRMN 2100 or GRMN 3200 with a minimum grade of "C".

² Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".

³ With written consent of department head, students may substitute GRMN 4600 with GRMN 4200.

⁴ Honours courses: all 4000 level courses.

⁵ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including German courses).

⁶ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding German courses in the Single Honours, and excluding German and the second Honours field courses in the Double Honours).

8.12.4 German Course Descriptions-1000 Level

GRMN 1120 Beginning German (A)

Cr. Hrs. 6

(Lab required) Three hours of lectures, plus one hour of language lab or conversation class per week. The course is intended for students with little or no previous knowledge of German. Basic grammar is included, but emphasis is placed on the development of broad reading and speaking skills. Satisfactory completion of this course enables students to proceed to GRMN 2100 or GRMN 2103. Students may not hold credit for GRMN 1120 and any of: GRMN 1123 or GRMN 1125 or the former GRMN 1121. Students with Grade 12 German or its equivalent may not normally take the course for credit. Not open to students who have previously obtained credit for GRMN 2100 or GRMN 2103 or GRMN 2105 or the former GRMN 2101.

GRMN 1300 Masterpieces of German Literature in English

Translation (C)

Cr. Hrs. 3

Language of instruction: English. The course introduces students to representative works (prose, poetry, and drama) by German-speaking writers such as Goethe, Kleist, Thomas Mann, Kafka, and Rilke, with an emphasis on the ages of Classicism, Romanticism, and Modernism. Stresses the development of English reading and writing skills. The course is designed for students who have little or no prior knowledge of German literature.

GRMN 1310 Love in German Culture in English Translation (C)

Cr. Hrs. 3

Language of instruction: English. An introduction to the discourse and meaning of love through German culture from the Middle Ages to the present; analyzes the expression of different concepts of love (spiritual, courtly, erotic, romantic, sexual, free, same-sex, familial, virtual) in literature and other cultural forms. Stresses the development of English reading and writing skills. The course is designed for students who have little or no prior knowledge of German culture.

8.12.4 German Course Descriptions-2000 Level

GRMN 2100 Intermediate German (A)

Cr. Hrs. 6

Grammar review, exercises, development of practical oral skills, conversation and modern usage. Introduction to German poetry and prose. Students may not hold credit for GRMN 2100 and any of: GRMN 2103 or GRMN 2105 or the former GRMN 2101. Prerequisite: [German 40S] or [a grade of "C" or better in GRMN 1120 or GRMN 1125 or the former GRMN 1121] or written consent of department head.

GRMN 2120 Introduction to German Culture from 1918 to the Present (C)

Cr. Hrs. 3

Language of instruction: English. An introduction to the culture of contemporary German-speaking countries; analyzes literature and other cultural forms since the end of World War I, including the Weimar Republic, the Third Reich and the Holocaust, divided Germany, Re-Unification, and the European Union.

GRMN 2130 Introduction to German Culture from the Beginnings to 1918 (C) Cr. Hrs 3

Language of instruction: English. An introduction to the culture of the German-speaking countries from the Romans to the end of World War I; analyzes literature and other cultural forms and their relation to the rise of the German Nation in the 19th century and its first "fall" in the 20th century.

GRMN 2140 Exploring German Literature (B) Cr. Hrs. 3

Language of instruction: German. In this intermediate course, we will read and discuss a number of works belonging to different literary genres by major German-speaking authors, such as Kafka, Mann, Brecht, Böll, Grass, Jelinek, Wolf, and others. Activities and assignments in this course will focus on the development of reading competency in different literary genres, the expansion of students' German vocabulary, and the development of German written and oral expression. Prerequisite: [a grade of "C" or better in GRMN 2100 or GRMN 2105 or GRMN 3200 or GRMN 3201 or the former GRMN 2101] or written consent of department head.

GRMN 2480 Special Topics in German (B) Cr. Hrs. 3

Language of instruction: German. Topics dealing with German literature and culture. Course content will vary from year to year depending on the interests and needs of students and staff. Prerequisite: [a grade of "C" or better in GRMN 2100 or GRMN 2105 or GRMN 3200 or GRMN 3201 or the former GRMN 2101] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 2500 Special Topics in German in English Translation (C) Cr. Hrs. 3

Language of instruction: English. Topics dealing with German literature and culture. Course content will vary from term to term depending on the interests and needs of students and staff. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 2510 German Fairy Tales from the Brothers Grimm to Hollywood (C) Cr. Hrs. 3

Language of instruction: English. Study of the German fairy tales with a specific emphasis on the "folk fairy tales" collected by the Brothers Grimm and their adaptations in the 20th and 21st centuries in film (Disney, DEFA, among others), literature, and music. The course familiarizes students with the historical, cultural, and national contexts of the original fairy tales, and trains students in different approaches to understanding those fairy tales (gender, psycho-analysis, child developmental psychology, horror, and others).

8.12.4 German Course Descriptions-3000 Level

GRMN 3200 Deutsche Sprachpraxis 1 (A) Cr. Hrs. 6

Modern German usage through conversation, writing and practical exercises; study of contemporary fictional and non-fictional texts and films. Emphasis on vocabulary and structural and stylistic problems. Students may not hold credit for both GRMN 3200 and GRMN 3201. Prerequisite: a grade of "C" or better in GRMN 2100 or GRMN 2105 or the former GRMN 2101.

GRMN 3220 Deutsche Sprachpraxis 2 (A) Cr. Hrs. 3

Advanced work on various aspects of the German language, involving intensive practice in writing and conversational skills; translation of literary and non-literary materials from and into German; and exercise in stylistic and structural analysis of literary and non-literary German in a variety of registers and contexts. Prerequisite: a grade of "C" or better in GRMN 3200 or GRMN 3201.

GRMN 3230 Business German (A) Cr. Hrs. 3

An introduction to the contemporary terminology and usage of German in the workplace. Listening, speaking, reading, and writing skills will be developed through a variety of activities. This course also aims at developing cross-cultural awareness. The course prepares the student for the business exam Zertifikat für den Beruf. Students may not hold credit for both GRMN 3230 and GRMN 3211. Prerequisite: [a grade of "C" or better in GRMN 2100 or GRMN 2105 or GRMN 3200 or GRMN 3201 or the former GRMN 2101] or written consent of department head.

GRMN 3232 Introduction to German Translation (A) Cr. Hrs. 3

Language of instruction: German. An introduction to the art of translation (German to English) with a focus on translation principles, language analysis, and hands-on translation of texts from a variety of fields. Prerequisite: [a grade of "C" or better in GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3234 Special Topics in German Language (A) Cr. Hrs. 3

Language of instruction: German. Topics dealing with learning the German language. Advanced German language practice. Course content will vary from year to year depending on the interests and needs of students and staff. Prerequisite: [a grade of "C" or better in GRMN 3200 or GRMN 3201] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 3240 German Enlightenment and Classicism (B) Cr. Hrs. 3

Language of instruction: German. A study of selected texts of the German Enlightenment and Classicism, including works by Lessing, Schiller, Goethe and others; advanced language practise. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3250 German Romanticism (B) Cr. Hrs. 3

Language of instruction: German. Study of selected fairy tales, novellas, letters, poetry and other texts by authors such as Novalis, Tieck, E.T.A. Hoffmann, and Kleist; topics discussed include the relationship between Enlightenment and Romanticism, the role of women, the discovery of the uncanny, the role of the fantastic, and romantic vampires, advanced language practise. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3260 Representations of the Holocaust (B) Cr. Hrs. 3

Language of instruction: German. This course will focus on the literary rendering, including film versions and German memorial culture, of the Holocaust experience by authors from the German-speaking countries, such as Anna Seghers, Jurek Becker, Paul Celan, Max Frisch, Peter Weiss, Ruth Klüger, W.G. Sebald, and others. Students may not hold credit for both GRMN 3260 and GRMN 3262. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3262 Representations of the Holocaust in English Translation (C) Cr. Hrs. 3

Language of instruction: English. This course will focus on the literary rendering, including film versions and German memorial culture, of the Holocaust experience by authors from the German-speaking countries, such as Anna Seghers, Jurek Becker, Paul Celan, Max Frisch, Peter Weiss, Ruth Klüger, W.G. Sebald, and others. Students may not hold credit for both GRMN 3262 and GRMN 3260. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head.

GRMN 3270 Studies in Contemporary German Cinema (C) Cr. Hrs. 3

Language of instruction: English. Studies the major accomplishments of East and West German cinema of the postwar period, as well as cinematic trends since German unification. We will consider questions of narrative, genre, and authorship, examine film's relationship to other media, and focus on the dynamic interaction between film history and social history. Films to be studied include features by prominent directors such as Wolf, Fassbinder, Wenders, von Trotta, Carow, Dörrie, and Tykwer. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head.

GRMN 3280 Sex, Gender and Cultural Politics in the German-Speaking World (B) Cr. Hrs. 3

Language of instruction: German. Explores a wide range of literary and cultural texts that deal with sex and gender in the German-speaking world. Discussion will address topics such as representation of women and men in literature and the social and historical climate in which the literature was and is produced. Students may not hold credit for both GRMN 3280 and GRMN 3282. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3282 Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C) Cr. Hrs. 3

Language of instruction: English. Explores a wide range of literary and cultural texts that deal with sex and gender in the German-speaking world. Discussion will address topics such as representation of women and men in literature and the social and historical climate in which the literature was and is produced. Students may not hold credit for both GRMN 3282 and GRMN 3280. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head.

GRMN 3290 History in Literature in German-Speaking Countries (B) Cr. Hrs. 3

Language of instruction: German. Analyzes how history is represented and remembered in literature and other genres. The course will focus on the representation of one historical period such as the Weimar Republic or the Nazi Third Reich. Please consult the instructor for details on which historical period as it appears in literature will be considered. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3390 German Representations of War (C) Cr. Hrs. 3

Language of instruction: English. Focuses on representations of war, particularly World War II from a German and European perspective in fiction, historiography, film, photography, and memorial culture. Students may not hold credit for both GRMN 3390 and GRMN 3392. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head.

GRMN 3392 German Representations of War (B) Cr. Hrs. 3

Language of Instruction: German. Focuses on representations of war, particularly World War II from a German and European perspective in fiction, historiography, film, photography, and memorial culture. Students may not hold credit for GRMN 3392 and GRMN 3390. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head.

GRMN 3500 Special Topics in German (B) Cr. Hrs. 3

Language of instruction: German. Topics dealing with German literature and culture. Course content will vary from year to year depending on interests and needs of students and staff. Prerequisite: [a grade of "C" or better in GRMN 2140 or GRMN 3200 or GRMN 3201] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 3510 Special Topics in German in English Translation (C) Cr. Hrs. 3

Language of instruction: English. Topics dealing with German literature and culture. Course content will vary from year to year depending on interests and needs of students and staff. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 3530 Special Topics in Comparative German and Slavic Studies (C) Cr. Hrs. 3

Language of instruction: English. Topics comparing German and Slavic – Ukrainian, Russian, Polish – literatures and cultures. Course is co-taught by a member from the German and one from the Slavic Section. Course content will vary from year to year depending on interests and needs of students and staff. Possible topics include Memory of World War II, Cold War and Post-Cold War, and Modernism. Students may not hold credit for both GRMN 3530 and SLAV 3530 when topic is the same. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.12.4 German Course Descriptions-4000 Level

GRMN 4200 Literary and Cultural Theory (C) Cr. Hrs. 3

Language of instruction: English. A survey of the major theoretical approaches to German literatures and cultures. Discusses the aesthetics of Enlightenment and Idealism, Nietzsche, Freud, Prague Structuralism, hermeneutics, semiotics, the Frankfurt School, collective memory, gender studies, and multi-culturalism; application of theories to German literary texts and other cultural examples. Prerequisite: written consent of department head.

GRMN 4210 Survey of Second Language Acquisition and Methods of Language Teaching in German (B) Cr. Hrs. 3

Language of instruction: German. For advanced undergraduate students with a high proficiency in German who are interested in the learning and teaching of German as a foreign / second language; the course provides a general introduction to theories and approaches in second language acquisition (SLA) and to methods of the teaching of German as a foreign language. This course is not acceptable for credit in a Bachelor of Education program. Prerequisite: written consent of department head.

GRMN 4540 Introduction to German Language Structure (B) **Cr. Hrs. 3**

Language of instruction: German. An introduction to the scientific study of the German language and to the role of the language teacher in the examination, analysis, and description of the German language. Topics include grammar, word formation, meaning, sound systems, language acquisition and change, and language in society. Prerequisite: written consent of department head.

GRMN 4570 Honours Thesis in German Studies (B,C) **Cr. Hrs. 3**

The Thesis presents the results of an independent research project supervised by a faculty member. The thesis can be written in German or in English. Prerequisite: written consent of department head.

GRMN 4600 Senior Seminar in German Studies (B) **Cr. Hrs. 3**

Language of instruction: German. Introduces basic methodology of German literary and cultural studies (genres, periods, resources, bibliographical methods). Examines German culture during critical periods in German history with specific emphasis on literature. Students work closely with a faculty advisor during the semester and are expected to produce a major research paper. Prerequisite: written consent of department head.

GRMN 4610 Independent Work (B) **Cr. Hrs. 3**

Language of instruction: German. Each student will work with an instructor to prepare a reading program in an appropriate area and present written assignments as required. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 4660 Special Topics in German (B) **Cr. Hrs. 3**

Language of instruction: German. The specific content of this course will vary from year to year. A description of the course is available in advance at the Department Office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

GRMN 4670 Special Topics in German in English Translation (C) **Cr. Hrs. 3**

Language of instruction: English. The specific content of this course will vary from year to year. A description of the course is available in advance at the Department Office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.12.5 Russian

8.12.5 Program Information: Slavic Studies - Russian

For entry, continuation and graduation requirements for the General Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours in Russian courses at any level. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Russian courses at any level.

8.12.6 Russian

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL RUSSIAN MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 30 credit hours of Russian to include: | | | |
| <ul style="list-style-type: none"> • RUSN 1300¹ or RUSN 1330¹ • RUSN 2810² or RUSN 2820² • 6 credit hours from RUSN 3200³, RUSN 3210³, RUSN 3220³ • In addition to the above required courses, students must complete the balance of credit hours by taking courses in Russian (RUSN) or Slavic Studies (SLAV) or courses selected from List A | | | |
| RUSSIAN MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in Russian (RUSN) courses | <ul style="list-style-type: none"> • 6 credit hours in Russian (RUSN) or Slavic Studies (SLAV) courses • 6 credit hours in Russian (RUSN) or Slavic Studies (SLAV) courses or courses selected from List A | | |
| <p>NOTES:</p> <p>¹ With written consent from the department head, students with superior language ability can substitute RUSN 1300 or RUSN 1330 with RUSN 2810 or RUSN 2820.</p> <p>² With written consent from the department head, students with superior language ability can substitute RUSN 2810 or RUSN 2820 with other 2000 or 3000 level Russian courses.</p> <p>³ With written consent from the department head, other 3000 level Russian language courses may be approved for credit.</p> | | | |

| List A | Courses Acceptable for Russian Credit | |
|---|---------------------------------------|---|
| With written consent from the department head, courses offered by other departments may be approved for credit. | | |
| Course No. | Credit Hours | |
| Faculty of Arts | | |
| History | | |
| HIST 2490 | History of Russia (E) | 6 |
| HIST 2660 | History of the Soviet Union (E) | 3 |
| HIST 2840 | A History of Russia to 1917 (E) | 3 |

8.12.7 Russian Course Descriptions 1000 Level

RUSN 1300 Introductory Russian **Cr. Hrs. 6**

(Lab required) Three hours of lectures plus one hour of lab per week. Basic grammar, conversation and reading with emphasis on communication skills. Cultural content is introduced through a range of audio-visual materials. Not open to native speakers and students with high school Russian 41G credit. Students may not hold credit for both RUSN 1300 and RUSN 1330.

RUSN 1330 Introductory Russian 2 **Cr. Hrs. 3**

(Lab required) Three hours of lectures plus one hour of lab per week. Intended for students who have already a knowledge of the alphabet and the sound system, as well as elementary comprehension, communication and writing skills equivalent to those that would be achieved in the first term of RUSN 1300. Students may not hold credit for both RUSN 1330 and

RUSN 1300. Prerequisite: successful completion of a placement test administered by the department.

RUSN 1400 Masterpieces of Russian Literature in Translation **Cr. Hrs. 3**

An introduction to representative works by major Russian writers, with emphasis on key paradigms in literary and socio-political thinking in Russia. Early 19th century to the present. The course is designed for students who have little or no prior knowledge of Russian literature. Lectures and readings in English. Students may not hold credit for both RUSN 1400 and the former RUSN 2770.

RUSN 1410 Love in Russian Culture in English Translation **Cr. Hrs. 3**

An introduction to the discourse of love in Russian culture from the Middle Ages to the present. The course explores different meanings of love (spiritual, erotic, romantic, same-sex, familial) in Russian culture by means of examining a variety of portrayals of the interactions of love, sex, religion, and politics in literature and other cultural forms. The course is designed for students who have little or no prior knowledge of Russian culture. Language of instruction: English.

8.12.7 Russian Course Descriptions-2000 Level

RUSN 2280 Russian Culture until 1900 **Cr. Hrs. 3**

A survey of the Russian cultural heritage from the pre-Christian era to the end of the nineteenth century. Mythology, the arts and literature. Lectures in English. Readings are available in both English translation and in the original.

RUSN 2290 Russian Culture from 1900 to the Present **Cr. Hrs. 3**

Russian culture from the end of the 19th century to the present day. Major developments in Russian art, film and literature. Readings are available in both English translation and in the original.

RUSN 2310 Exploring Russia through Film **Cr. Hrs. 3**

A survey of Russian cinema from its origins to the present. The course focuses on the role of film in Russian culture, ideological uses of film, and cinema as a medium of cultural dissent and witness to social change. Lectures in English; all films are in Russian with English subtitles; no prior knowledge of Russian language or culture is required.

RUSN 2410 Russian Literature after Stalin **Cr. Hrs. 3**

A survey of Russian literature from the period of High Stalinism to the present. The course examines effects of ideological and political change on literary production. Lectures in English. Readings in English or in the original.

RUSN 2600 Special Topics in Russian Culture in English Translation **Cr. Hrs. 3**

Language of Instruction: English. Topics dealing with Russian culture. The course content may vary. Students may earn multiple credits for this course only when the course subtitle is different.

RUSN 2630 Russian Language Seminar Abroad **Cr. Hrs. 3**

The study of Russian language, literature and culture at an intensive language school in Eastern Europe. Designed for students aiming at near-native fluency. Prerequisite: [a grade of "C" or better in RUSN 1300 or RUSN 1330] and written consent of department head.

RUSN 2740 Literature and Revolution **Cr. Hrs. 3**

Responses to the 1917 Revolution, focusing on writers of the twenties. Mayakovsky, Kollontai, Babel, Olesha, Zamyatin, Pilnyak, Bulgakov. References to art, cinema and cultural politics of the period. Lectures in English.

RUSN 2810 Intermediate Russian **Cr. Hrs. 6**

Grammar review, conversation, translation and reading of selected texts. Development of communication skills through practical exercises. Cultural content is introduced through use of audio-visual and internet materials. Students may not hold credit for both RUSN 2810 and RUSN 2820. Prerequisite: [a grade "C" or better in RUSN 1300 or RUSN 1330] or [Russian 41G] or written consent of department head.

RUSN 2820 Intermediate Russian 2 **Cr. Hrs. 3**

Intended for students who already have basic comprehension, communication and writing skills equivalent to those that would be achieved in the first term of RUSN 2810. Students may not hold credit for both RUSN 2820 and RUSN 2810. Prerequisite: successful completion of a placement test administered by the department.

RUSN 2830 Special Topics in Russian **Cr. Hrs. 3**

A study of the Russian language through listening, reading, writing, and conversation, with a strong cultural component. The content of this course will vary from year to year, depending on the needs and interests of the students and staff. Prerequisite: [a grade "C" or better in one of: RUSN 1300 or RUSN 1330 or RUSN 2810 or RUSN 2820] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.12.7 Russian Course Descriptions-3000 Level

RUSN 3200 Advanced Russian 1 **Cr. Hrs. 3**

Advanced composition, translation, reading and study of selected literary and other texts. Development of overall communication skills. Students may not hold credit for both RUSN 3200 and the former RUSN 3930. Prerequisite: [a grade "C" or better in RUSN 2810 or RUSN 2820] or written consent of department head.

RUSN 3210 Advanced Russian 2 **Cr. Hrs. 3**

Continues RUSN 3200. Further work in advanced composition, translation, reading and study of selected literary and other texts. Development of overall communication skills. Students may not hold credit for RUSN 3210 and any of: the former RUSN 3930 or the former RUSN 3940. Prerequisite: [a grade "C" or better in RUSN 3200] or written consent of department head.

RUSN 3220 Selected Topics in Russian **Cr. Hrs. 3**

Language of instruction: Russian. Advanced study of the Russian language through reading and analysis of literary or/and non-fictional texts including academic writing. The content of this course will vary from year to year, depending on the needs and interests of instructors and students. Prerequisite: [a grade "C" or better in one of: RUSN 2810, RUSN 2820, RUSN 3200, RUSN 3210, the former RUSN 3930, the former RUSN 3940] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RUSN 3330 Chekhov **Cr. Hrs. 3**

The study of selected short stories and plays. Lectures in English. Readings are available in both Russian and English translation.

RUSN 3580 Russian Poetry Cr. Hrs. 3

A study of major Russian poetry of the 19th and 20th centuries, including works by Pushkin, Lermontov, Tiutchev, Fet, Blok, Mayakovsky, Akhmatova, Esenin, Evtushenko, Vinokurov, Kazakova. Lectures and readings in Russian. Prerequisite: [a grade of "C" or better in one of: RUSN 3200 or RUSN 3210 or the former RUSN 3930 or the former RUSN 3940] or written consent of department head.

RUSN 3770 Tolstoy Cr. Hrs. 3

A study of the novelist that focuses on the development of the aesthetic views and intellectual biography. Representative works from his early, middle and late period will be selected for analysis. Lectures in English. Readings in the original or in English.

RUSN 3780 Dostoevsky Cr. Hrs. 3

A study that focuses on the writer's art, in particular on his development of the polyphonic novel. Lectures in English. Readings in the original or in English.

RUSN 3790 Special Studies Cr. Hrs. 3

The content of this course will vary from year to year, depending on the needs and interests of instructors and students. A description of the course is available in advance at the department office. Prerequisite: [a grade of "C" or better in a minimum of 21 credit hours of courses at the 1000-level or above] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RUSN 3900 Tolstoy's War and Peace Cr. Hrs. 3

This writer's art, view of history and human nature. References to film versions. Lectures in English. Readings in the original or in English.

8.12.7 Russian Course Descriptions-4000 Level**RUSN 4620 Selected Topics 1 Cr. Hrs. 3**

A program of independent reading and/or research on selected topics to 1900, undertaken by a student in consultation with his or her prospective instructor. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.12.8 Ukrainian**8.12.8 Program Information: Slavic Studies - Ukrainian**

For entry, continuation and graduation requirements for the General Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

General Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours in Ukrainian courses at any level. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Ukrainian courses at any level.

8.12.9 Ukrainian

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--------|--------|
| GENERAL UKRAINIAN MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 30 credit hours of Ukrainian to include: | | | |
| <ul style="list-style-type: none"> • UKRN 1310¹ or UKRN 1320¹ • UKRN 2720² or UKRN 2730² • UKRN 3950³ and UKRN 3960³ • In addition to the above required courses, students must complete the balance of credit hours by taking Ukrainian (UKRN) or Slavic Studies (SLAV) courses⁴ | | | |
| UKRAINIAN MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in Ukrainian (UKRN) courses | 12 credit hours in Ukrainian (UKRN) or Slavic Studies (SLAV) courses ⁴ | | |
| NOTES: | | | |
| ¹ With written consent from the department head, students with superior language ability can substitute UKRN 1310 or UKRN 1320 with UKRN 2720 or UKRN 2730. | | | |
| ² With written consent from the department head, students with superior language ability can substitute UKRN 2720 or UKRN 2730 with other 2000 or 3000 level Ukrainian courses. | | | |
| ³ With written consent from the department head, other 3000 level Ukrainian language courses may be approved for credit. | | | |
| ⁴ With written consent from the department head, courses offered by other departments may be approved for credit. | | | |

8.12.10 Ukrainian Course Descriptions-1000 Level**UKRN 1230 Language Seminar in Ukraine 1 Cr. Hrs. 3**

The study of Ukrainian language at an intensive language school in Ukraine. The course is designed for students aiming at near-native fluency. Prerequisite: written consent of department head.

UKRN 1310 Introductory Ukrainian Cr. Hrs. 6

(Lab required) Three hours of lectures plus one hour of lab per week. Basic grammar, conversation, composition and reading. Emphasis is placed on communication skills. Cultural content is introduced through a range of audio-visual materials. Not open to native speakers and students with Ukrainian 40S credit. Students may not hold credit for both UKRN 1310 and UKRN 1320.

UKRN 1320 Introductory Ukrainian 2 Cr. Hrs. 3

(Lab required) Three hours of lectures plus one hour of lab per week. This course is intended for students who already have a knowledge of the alphabet and the sound system and elementary oral comprehension and reading, writing, and speaking skills equivalent to those that would be achieved in the first term of UKRN 1310. Students may not hold credit for both UKRN 1320 and UKRN 1310. Prerequisite: successful completion of a placement test administered by the department.

8.12.10 Ukrainian Course Descriptions-2000 Level**UKRN 2100 Exploring Ukrainian Literature Cr. Hrs. 3**

An introduction to Ukrainian literature. A number of works by major authors and from different genres are discussed.

UKRN 2200 Ukrainian Myth, Rites and Rituals Cr. Hrs. 3

An exploration of folk mythology, and the rites, rituals and festivals associated with the calendar cycle. Lectures and readings in English.

Students may not hold credit for UKRN 2200 and any of: the former UKRN 2510 or the former UKRN 2520.

UKRN 2260 Ukrainian Culture Seminar Abroad Cr. Hrs. 3

This course is offered as part of the Summer Session. It is a study experience in Ukraine. The course features extensive exploration of contemporary Ukrainian culture. The course is taught in English. Students are given the maximum individual attention. Mornings are spent in class. Excursions are planned in Kyiv and neighboring sites. Prerequisite: [a grade of "C" or better in UKRN 1310 or UKRN 1320 (or equivalent)] and written consent of the department head.

UKRN 2410 Ukrainian Canadian Cultural Experience Cr. Hrs. 3

A study of the legacy left by several generations of Ukrainian Canadians in literature and the performing arts, music, art and architecture, with particular attention to the construction of identity and the critique of culture. Lectures and readings in English. Students may not hold credit for both UKRN 2410 and the former UKRN 2420.

UKRN 2590 Ukrainian Literature and Film Cr. Hrs. 3

An examination of the relationship of Ukrainian literature and film. Students read literary works which have inspired films and analyze the unique formal qualities of each. The course considers the stylistic influence of film on literature and vice versa; the relationship between writer and director, especially in the case where they are one and the same person. Readings in the original and/or in English. Films in Ukrainian with English subtitles or plot summaries.

UKRN 2600 Special Topics in Ukrainian Studies Cr. Hrs. 3

Language of Instruction: English. Study of selected topics in Ukrainian literature or culture. The course content may vary. Students can earn multiple credits for the course only when the topic subtitle is different.

UKRN 2720 Intermediate Ukrainian Cr. Hrs. 6

Grammar review, conversation, translation and reading of selected texts. Development of communication skills through practical exercises. Cultural content is introduced through audio-visual materials. Students may not hold credit for both UKRN 2720 and UKRN 2730. Prerequisite: [a grade of "C" or better in UKRN 1310 or UKRN 1320] or [Ukrainian 40S] or written consent of department head.

UKRN 2730 Intermediate Ukrainian 2 Cr. Hrs. 3

This course is the second term of UKRN 2720 Intermediate Ukrainian, and is intended for students who already have basic oral comprehension and reading, writing, and speaking skills equivalent to those that would be achieved in the first term of UKRN 2720. Students may not hold credit for both UKRN 2730 and UKRN 2720. Prerequisite: successful completion of a placement test administered by the department.

UKRN 2770 Ukrainian Culture until 1900 Cr. Hrs. 3

A survey that examines the Ukrainian Culture Heritage from the pre-Christian era, through medieval times and the baroque to the end of the 19th century. Issues in mythology, religion, the arts and literature are discussed. Lectures in English. Readings are available in both English translation and the original.

UKRN 2780 Ukrainian Culture from 1900 to the Present Cr. Hrs. 3

Major trends in thought, the visual arts, film and literature from the end of the 19th century to the present day. Lectures in English. Readings are available in both English translation and Ukrainian.

UKRN 2800 Literature and Revolution in Ukraine Cr. Hrs. 3

A study of literature and its relationship to the arts in the decade that followed the Revolution of 1917. Lectures in English. Readings available in English and in the original. Viewing and discussion of films.

UKRN 2820 Holodomor and Holocaust in Ukrainian Literature and Culture Cr. Hrs. 3

A study of how the Holodomor (Famine) of 1932-33 and the Holocaust have been represented, and of the international impact of these representations. References to art and film. Lectures and readings in English.

8.12.10 Ukrainian Course Descriptions-3000 Level

UKRN 3100 Ukrainian Story Writing Through the Ages Cr. Hrs. 3

Masterpieces of the short story genre from early modern times to the present. Focusing on great works and writers, the course provides insights into the genre and into different periods in Ukrainian literature. Film adaptations of some works will be viewed and discussed. Students may not hold credit for both UKRN 3100 and the former UKRN 3850.

UKRN 3300 Literature of Independent Ukraine Cr. Hrs. 3

A study of recent writings from Ukraine, focusing on the post-1991 period. References to art and film of the period.

UKRN 3440 Ukrainian Poetry Cr. Hrs. 3

A study of some of the best Ukrainian poetry with a particular emphasis on the modern period. Lectures and readings in Ukrainian. Prerequisite: [a grade of "C" or better in UKRN 1310 or UKRN 1320] or written consent of department head.

UKRN 3840 Ukrainian Novel Cr. Hrs. 3

A study of representative novels of the 19th and 20th centuries. The course begins with the Romantic period and ends with contemporary writing. Lectures in English. Readings in the original or in English.

UKRN 3880 Special Studies Cr. Hrs. 3

The content of this course will vary from year to year, depending on the needs and interests of instructors and students. A description of the course is available in advance at the department office. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of courses at the 1000-level or above] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

UKRN 3910 Shevchenko Cr. Hrs. 3

A study of the greatest works, focusing on the writer's intellectual and artistic development. References to his art and the imperial context. Lectures in English. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of courses at the 1000-level or above] or written consent of department head.

UKRN 3950 Advanced Ukrainian 1 Cr. Hrs. 3

Advanced composition, translation, readings and study of selected literary and other texts. Development of oral and comprehension skills through study of contemporary film, television and other audio-visual materials. Prerequisite: [a grade of "C" or better in UKRN 2720 or UKRN 2730] or written consent of department head.

UKRN 3960 Advanced Ukrainian 2 Cr. Hrs. 3

A continuation of UKRN 3950 Advanced Ukrainian 1. Continued work in advanced composition, translation, readings and study of selected literary and other texts. Continued development of oral and comprehension skills through study of contemporary film, television and other audio-visual materials. Prerequisite: [a grade of "C" or better in UKRN 3950] or written consent of department head.

UKRN 3970 Women and Ukrainian Literature Cr. Hrs. 3

A study of the literature produced by Ukrainian women writers in the nineteenth, twentieth, and twenty-first centuries. Lectures in English. Readings in the original and/or in English.

8.12.10 Ukrainian Course Descriptions-4000 Level

UKRN 4640 Selected Topics 1 Cr. Hrs. 3

A program of independent reading and/or research on selected topics to 1900, undertaken by a student in consultation with his or her prospective instructor. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.12.11 Polish

8.12.11 Program Information: Slavic Studies - Polish

For entry, continuation and graduation requirements for the General Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Polish courses.

8.12.12 Polish

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--------|--------|
| POLISH MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in Polish (POL) courses | 12 credit hours in Polish (POL) courses | | |

8.12.13 Polish Course Descriptions-1000 Level

POL 1890 Introductory Polish Cr. Hrs. 6

Basic grammar, conversation, composition, readings, language laboratory sessions.

POL 1900 Love, Heroes and Patriotism in Contemporary Poland Cr. Hrs. 3

A study of the impact of Romanticism on contemporary Polish national consciousness, images of love, and the role of art and the artist in society. The course explores diverse written and visual sources representing Polish and European Romanticism and its mutual influences. Lectures and readings in English.

8.12.13 Polish Course Descriptions-2000 Level

POL 2600 Polish Culture until 1918 Cr. Hrs. 3

An introductory survey from the beginnings of the Polish state to 1918. This is a lecture style course devoted to studying the achievements of Polish culture and their impact on world culture. Students will observe the creation of Polish national identity through the examination of documents

from literature and culture. Lectures and readings in English. Students may not hold credit for both POL 2600 and the former POL 2530.

POL 2610 Polish Culture 1918 to the Present Cr. Hrs. 3

An introductory survey from 1918 to the present. This is a lecture style course devoted to studying the achievements of Polish culture and their impact on shaping of the contemporary Polish society. Students will observe the cultural changes that defined Poland following one hundred years of non-existence as a nation. The re-examining of the Polish national identity will be studied through documents from literature, art, mythology and music. Lectures and readings in English. Students may not hold credit for both POL 2610 and the former POL 2530.

POL 2660 Special Topics in Polish Literature and Culture Cr. Hrs. 3

Topics dealing with Polish literature and culture. Content of this course will vary from year to year, depending on the needs and interests of instructors and students. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

POL 2690 Polish Language and Culture Cr. Hrs. 6

Offered as part of the Summer Session, this course is a study experience in Poland. The program features practical language training and an exploration of the Polish culture. Prerequisite: written consent of instructor.

POL 2890 Intermediate Polish Cr. Hrs. 6

Grammar review, composition, translation, readings of selected prose and poetry. Prerequisite: [a grade of "C" or better in POL 1890] or written consent of department head.

8.12.13 Polish Course Descriptions-3000 Level

POL 3890 Advanced Polish Cr. Hrs. 6

Syntax, advanced composition, readings and study of selected prose and poetry. Prerequisite: [a grade of "C" or better in POL 2890] or written consent of department head.

8.12.14 Slavic Studies-General Course Descriptions-3000 Level

SLAV 3530 Special Topics in Comparative German and Slavic Studies Cr. Hrs. 3

Language of instruction: English. Topics comparing German and Slavic – Ukrainian, Russian, Polish – literatures and cultures. Course is co-taught by a member from the German and one from the Slavic Section. Course content will vary from year to year depending on interests and needs of students and staff. Possible Topics include Memory of World War II, Cold War and Post-Cold War, and Modernism. Students may not hold credit for both SLAV 3530 and GRMN 3530 when topic is the same. Prerequisite: [a grade of "C" or better in a minimum of 24 credit hours of university level coursework] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SLAV 3920 Gogol Cr. Hrs. 3

A study of the author's major fiction and his influence on Russian and Ukrainian cultures and identity politics.

8.12.15 Hungarian Course Descriptions

HUNG 1000 Introduction to Hungarian 1 Cr. Hrs. 3

(Lab required) The course is intended for students with little or no previous knowledge of Hungarian. Students are introduced to basic grammar and vocabulary as well as aspects of Hungarian culture. Emphasis is placed on communication skills. Satisfactory completion of this course enables students to proceed to HUNG 1002 Introduction to Hungarian 2.

HUNG 1002 Introduction to Hungarian 2 Cr. Hrs. 3

(Lab required.) The course is intended for students with some elementary knowledge of Hungarian. Students will expand their understanding of basic grammar and vocabulary, as well as aspects of Hungarian culture. Emphasis is placed on communication skills. Prerequisite: [a grade of "C" or better in HUNG 1000] or written consent of department head.

8.13 Global Political Economy Program

Program Coordinator: Mark Hudson
 Program Office: 333 Isbister Building
 Telephone: 204 272-1655
 E-mail: mark.hudson@umanitoba.ca
 Website: umanitoba.ca/global_political_economy/

8.13.1 Program Information

Global Political Economy (GPE) is an interdisciplinary program offered through five departments: History, Sociology and Criminology, Economics, Anthropology, and Political Studies. The program draws on multiple disciplinary perspectives to develop critical understanding of complex, contemporary global events and issues, and to build the research, analytical, and communication skills necessary to address them. Faculty from each participating discipline collaborate to create Major and Advanced Major degree programs focused on analyzing changes in global political and economic relations, and linking them with local issues, cultures, and political economies.

For entry to the General Major, the prerequisite is a grade of "C" or better in the following: both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220; and 6 credit hours from GPE 1700 (or GEOG 1700), HIST 1370, HIST 1380, HIST 1500, HIST 2730, HIST 2732, HIST 2734.

For entry to the Single Advanced Major, the prerequisite is a grade of "C" or better in the following: both ECON 1010 and ECON 1020, or both ECON 1210 and ECON 1220; and 6 credit hours from GPE 1700 (or GEOG 1700), HIST 1370, HIST 1380, HIST 1500, HIST 2730, HIST 2732, HIST 2734, POLS 2602.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Note: Students who declare and complete a Major will not be required or allowed to complete a separate field for a Minor for purposes of satisfying degree requirements.

8.13.2 Global Political Economy

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--------|
| GENERAL MAJOR¹ TOTAL: 48 CREDIT HOURS | | | |
| • 6 credit hours from the following: HIST 1370, HIST 1380, HIST 1500, HIST 2730, HIST 2732, HIST 2734 • ECON 1010 and ECON 1020, or | • ANTH 2000 ² • ECON 2540 • ECON 2550 • GPE 2700 • SOC 2290 ³ , or both ANTH 3930 and STAT 1000 | • ANTH 3320 ² • GPE 3700 • POLS 3250 ⁴ or ANTH 3750 • POLS 3270 ⁴ • SOC 3380 or SOC 3838 or SOC 3840 or SOC 3890 ³ | |

| | | | |
|--|---|---|----------|
| ECON 1210 and ECON 1220 • GPE 1700 (or GEOG 1700) | | | |
| SINGLE ADVANCED MAJOR TOTAL: 66 CREDIT HOURS | | | |
| • 6 credit hours from the following: HIST 1370, HIST 1380, HIST 1500, HIST 2730, HIST 2732, HIST 2734 • ECON 1010 and ECON 1020, or ECON 1210 and ECON 1220 • GPE 1700 (or GEOG 1700) • POLS 2602 | • ANTH 2000 ² • ECON 2540 • ECON 2550 • GPE 2700 • SOC 2290 ³ , or both ANTH 3930 and STAT 1000 | • ANTH 3320 ² • GPE 3700 • POLS 3250 ⁴ or ANTH 3750 • POLS 3270 ⁴ • SOC 3380 or SOC 3838 or SOC 3840 or SOC 3890 ³ | GPE 4700 |
| | | In years 2, 3 and 4 students must take an additional 9 credit hours from List A. | |
| NOTES: ¹ Students in the General Major are very strongly advised to include in their elective courses a minimum of 6 credit hours from the following list (if not already taken in the core requirements): ANTH 2530, ANTH 3750, ECON 2630, HIST 1370, HIST 1380, HIST 1500, HIST 2670, HIST 2680, HIST 2730, HIST 2732, HIST 2734, POLS 2602, POLS 2504, POLS 3250, POLS 3810, SOC 3380, SOC 3838, SOC 3840, SOC 3890. ² Students are advised to take ANTH 1220 or ANTH 1520 as an elective in Year 1 as it is the prerequisite for some upper level Anthropology courses. Otherwise, students will require written consent of Anthropology department head prior to registration. ³ Students are advised to take SOC 1200 as an elective in Year 1 as it is the prerequisite for upper level Sociology courses. Otherwise, students will require written consent of Sociology and Criminology department head prior to registration. ⁴ Students are advised to take POLS 2040 as an elective in Year 2 as it is the prerequisite for upper level Political Studies courses. Otherwise, students will require written consent of Political Studies department head prior to registration. | | | |

List of Courses for Global Political Economy

See the departmental Calendar section for full course descriptions.

| Global Political Economy | | |
|---------------------------------|---|---|
| GPE 1700 | Social Justice in the 21st Century: Global Political Economy and Environmental Change (same as GEOG 1700) | 3 |
| GPE 2700 | Perspectives on Global Political Economy | 3 |
| GPE 3700 | A Survey of Global Political Economy | 3 |
| GPE 4700 | Studies in Global Political Economy | 6 |
| Anthropology | | |
| ANTH 2000 | Culture, Society, and Power | 3 |
| ANTH 2530 | Anthropology of Political Systems | 3 |
| ANTH 3320 | Women in Cross-Cultural Perspective | 3 |
| ANTH 3750 | Globalization and the World-System | 3 |
| Economics | | |

| | | |
|----------------------------------|--|---|
| ECON 1010 | Introduction to Microeconomic Principles | 3 |
| ECON 1020 | Introduction to Macroeconomic Principles | 3 |
| ECON 1210 | Introduction to Canadian Economic Issues and Policies | 3 |
| ECON 1220 | Introduction to Global and Environmental Economic Issues and Policies | 3 |
| ECON 2540 | Political Economy 1: Production and Distribution | 3 |
| ECON 2550 | Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment | 3 |
| History | | |
| HIST 1370 | An Introduction to Modern World History: 1500-1800 (M) | 3 |
| HIST 1380 | An Introduction to Modern World History: 1800 - Present (M) | 3 |
| HIST 1500 | An Introduction to Modern World History: 1500 - Present (M) | 6 |
| HIST 2730 | Modern World History, 1914-1945: The 30 Years' Crisis (G,M) | 3 |
| HIST 2732 | Modern World History, 1945-1992: The Age of Three Worlds (G,M) | 3 |
| HIST 2734 | Modern World History, 1980-Present: New World Order? (G,M) | 3 |
| Political Studies | | |
| POLS 2602 | Introduction to Comparative Politics | 3 |
| POLS 3250 | International Political Economy | 3 |
| POLS 3270 | Theories of the Capitalist World Order | 3 |
| Sociology and Criminology | | |
| SOC 2290 | Introduction to Research Methods | 6 |
| SOC 3380 | Power, Politics and the Welfare State | 3 |
| SOC 3838 | Ecology and Society | 3 |
| SOC 3840 | Community and Social Reconstruction | 3 |
| SOC 3890 | Power and Inequality in Comparative Perspective | 3 |
| List A | | |
| Faculty of Arts | | |
| Anthropology | | |

| | | |
|----------------------------------|--|---|
| ANTH 2530 | Anthropology of Political Systems | 3 |
| ANTH 3750 | Anthropological Perspectives on Globalization and the World-System | 3 |
| Economics | | |
| ECON 2630 | An Introduction to the World's Economies | 6 |
| History | | |
| HIST 1370 | An Introduction to Modern World History: 1500-1800 (M) | 3 |
| HIST 1380 | An Introduction to Modern World History: 1800 - Present (M) | 3 |
| HIST 1500 | An Introduction to Modern World History: 1500 - Present (M) | 6 |
| HIST 2670 | History of Capitalism (M) | 3 |
| HIST 2680 | A History of Socialism from the French Revolution to the Present (M) | 3 |
| HIST 2730 | Modern World History, 1914-1945: The 30 Years' Crisis (G,M) | 3 |
| HIST 2732 | Modern World History, 1945-1992: The Age of Three Worlds (G,M) | 3 |
| HIST 2734 | Modern World History, 1980-Present: New World Order? (G,M) | 3 |
| HIST 3580 | Topics in Recent World History (M) | 3 |
| | Acceptable for credit only when the topic is "Global Economic Crises in World History, 1929-Present" | |
| Political Studies | | |
| POLS 2504 | Introduction to International Relations | 3 |
| POLS 3250 | International Political Economy | 3 |
| POLS 3810 | Introduction to Marxism | 3 |
| Sociology and Criminology | | |
| SOC 2240 | Sociology of Globalization | 3 |
| SOC 3380 | Power, Politics and the Welfare State | 3 |
| SOC 3838 | Ecology and Society | 3 |
| SOC 3840 | Community and Social Reconstruction | 3 |
| SOC 3890 | Power and Inequality in Comparative Perspective | 3 |

8.13.3 Global Political Economy Course Descriptions

GPE 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change Cr. Hrs. 3

Introduces students to political economy and cultural geography through the close analysis of contemporary world events, including but not limited to instances of violent conflict, environmental change, international negotiations, political processes and events, social movements, and policy developments. A multimedia approach will advance students' understanding of geopolitical events from political economy and spatial perspectives. Specific content of the course will change year-by-year in response to developments in national and world politics. Also offered by Clayton H. Riddell Faculty of Environment, Earth, and Resources as GEOG 1700. Students may not hold credit for both GPE 1700 and GEOG 1700.

GPE 2700 Perspectives on Global Political Economy Cr. Hrs. 3

An interdisciplinary seminar exploring issues in political economy at the global level from the perspectives of Anthropology, History, Economics, Political Studies, and Sociology. Prerequisite: written consent of Global Political Economy coordinator.

GPE 3700 A Survey of Global Political Economy Cr. Hrs. 3

Provides students with a systemic intellectual history of the field of Global Political Economy. The course delineates Global Political Economy as a distinctive scholarly tradition, discusses the separation of economics and politics, and surveys the tradition from classical political economy through historical materialism, development economics, imperialism, world systems theory, and more. Students will relate these approaches to contemporary issues in GPE such as economic and ecological crises, inequality, or corporate power. Prerequisite: [a grade of "C" or better in GPE 1700 or GEOG 1700] or written consent of instructor.

GPE 4700 Studies in Global Political Economy Cr. Hrs. 6

An advanced interdisciplinary seminar that will study the effects of institutions, structures, and dynamics operating in the current global political economy. Students, working in groups, will be expected to do case studies on selected local (or regional) political economies. Prerequisite: written consent of Global Political Economy coordinator.

8.14 Department of History

Head: Tina Chen
 Campus Address/General Office: 403 Fletcher Argue Building
 Telephone: 204 474 8401
 Email Address: history@umanitoba.ca
 Website: umanitoba.ca/history

8.14.1 Program Information

The study of history provides essential background for many disciplines and professions where research analysis, communications skills and an understanding of how past events influence the present are important. The department includes specialists in intellectual, cultural, social, medieval, Aboriginal, women's, and international history. A particular area of departmental specialization is Canadian and western Canadian history.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in the first six credit hours of History. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on

all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

When selecting 2000-level courses in Year 2, students should anticipate their future interests.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in the first six credit hours of History.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

In addition, students are to have a grade point average of 3.0 or better in all History courses completed before admission.

To continue in the Honours program a 3.0 grade point average, with minimum grades of "B" in all 3000- and 4000-level History courses, must be maintained. Normally, students who fail to maintain a minimum grade of "B" in all 3000- and 4000-level courses will be required to withdraw from the Honours program.

It is recommended that students complete HIST 4400 or HIST 4580 in Year 4 if they intend to do graduate work.

Other

At most, 12 credit hours at the 1000-level in History may count for a B.A. General, B.A. Advanced, or B.A. Honours Degree credit.

Courses CLAS 2140, CLAS 2150, CLAS 2160 and CLAS 2170 offered by the Department of Classics count for credit towards a General Major, Single Advanced Major, Minor (Concentration), Single Honours or Double Honours in History.

8.14.2 History

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours in History courses numbered at the 1000 or 2000 level or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level | 12 credit hours in History courses numbered at the 2000 level | • 6 credit hours in History courses numbered at the 3000 level • 6 credit hours in History courses numbered at the 2000 or 3000 level | |
| | Within the 30 credit hours, students must choose 6 credit hours from each of 3 different areas of study. | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |

| | | | |
|---|--|---|--|
| 6 credit hours in History courses numbered at the 1000 or 2000 level Or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level | 18 credit hours in History courses numbered at the 2000 level | 18 credit hours in History courses numbered at the 3000 level, Or 12 credit hours in History courses numbered at the 3000 level and 6 credit hours in History courses numbered at the 2000 level, Or 12 credit hours in History courses numbered at the 3000 level and 6 credit hours in History courses numbered at the 4000 level | 6 credit hours in History courses numbered at the 4000 level |
| Within the 48 credit hours, students must choose 6 credit hours from each of 3 different areas of study. | | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in History courses numbered at the 1000 or 2000 level Or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level | 6 credit hours in History courses numbered at the 2000 level | 6 credit hours in History courses numbered at the 2000 or 3000 level | |
| SINGLE HONOURS^{1,4} | | | |
| 6 credit hours in History courses numbered at the 1000 or 2000 level Or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level | • 18 credit hours in History courses numbered at the 2000 or 3000 level • 6 credit hours in History courses numbered at the 3000 level • HIST 3990 • 24 credit hours in ancillary options ² • 6 credit hours in free options ³ | • 24 credit hours in History courses numbered at the 4000 level • 6 credit hours in free options ³ | |
| Honours students must choose from a minimum of three different defined areas of historical study. | | | |
| DOUBLE HONOURS^{1,4} | | | |

| | | |
|--|---|--|
| 6 credit hours in History courses numbered at the 1000 or 2000 level Or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level | • 18 credit hours in History courses numbered at the 2000 or 3000 level • HIST 3990 • 6 credit hours in ancillary options ² • 6 credit hours in free options ³ • 24 credit hours in other Honours field | • 12 credit hours in History courses numbered at the 4000 level • 6 credit hours in free options ³ • 12 credit hours in other Honours field |
| Honours students must choose from a minimum of three different defined areas of historical study. | | |
| NOTES: | | |
| ¹ Students, particularly those intending to proceed to a graduate program, are encouraged to study a second language during the course of their Honours program. | | |
| ² Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding History courses). | | |
| ³ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including History courses). It is recommended students register for additional History courses at the 2000 level or higher. | | |
| ⁴ Honours courses: all 4000 level courses. | | |

History courses are arranged into groups and areas of study as follows:

| Groups: | Areas: | |
|--|--------|----------------------------|
| numbered at the 1000 level: Introductory | A: | The Americas |
| numbered at the 2000 level: General | B: | Asian |
| numbered at the 3000 level: Special | C: | Canadian |
| numbered at the 4000 level: Honours | D: | Ancient and Medieval |
| | E: | European |
| | G: | General |
| | M: | Modern World |
| | R: | Africa and the Middle East |

For information regarding Cross-Disciplinary Programs, see [Section 8.8](#).

8.14.3 History Course Descriptions-1000 Level

HIST 1200 An Introduction to the History of Western Civilization (G) Cr. Hrs. 6

An introductory survey of the cultural history of the Western world from the ancient Greeks to the present. Students may not hold credit for HIST 1200 and any of: HIST 1201 or HIST 1350 or HIST 1360.

HIST 1260 New Directions in History: Inquiries into the Cultural Basis of the Modern World (G) Cr. Hrs. 3

The history of cultural change focusing on such topics as leisure and popular culture, sexuality and history, and the social consequences of creativity and genius. The specific content will vary from year to year.

HIST 1270 New Directions in History: Inquiries into the Power Relations of the Modern World (G) Cr. Hrs. 3

The history of the social and cultural impact of factors such as changes in technology and communication, warfare, and revolution. The specific content will vary from year to year.

HIST 1350 An Introduction to the History of Western Civilization to 1500 (G) Cr. Hrs. 3

An introductory survey of the cultural history of the Western World from the earliest civilizations to 1500. Students may not hold credit for HIST 1350 and any of: HIST 1200 or HIST 1201.

HIST 1360 An Introduction to the History of Western Civilization from 1500 (G) Cr. Hrs. 3

An introductory survey of the cultural history of the Western World from 1500 to the present. Students may not hold credit for both HIST 1360 and any of: HIST 1200 or HIST 1201.

HIST 1370 An Introduction to Modern World History: 1500-1800 (M) Cr. Hrs. 3

A study of the forces which created the modern world, including the rise of capitalism and the encounter of Western and non-Western societies. Students may not hold credit for both HIST 1370 and HIST 1500.

HIST 1380 An Introduction to Modern World History: 1800-Present (M) Cr. Hrs. 3

A study of the forces which created the modern world, including industrialization, imperialism, decolonization, and the emergence of revolution and counter-revolution. Students may not hold credit for both HIST 1380 and HIST 1500.

HIST 1390 History of Colonial Canada: 1500-1885 (C) Cr. Hrs. 3

A study of the development of Canada from its colonial origins to the completion of national and transcontinental unification. Emphasis is on French Canada, Indian-European cultural contact, regional life and social organization, impact of colonialism, and the creation of a national state. Students may not hold credit for HIST 1390 and any of: HIST 1440 or HIST 1441.

HIST 1400 History of the Canadian Nation since 1867 (C) Cr. Hrs. 3

A study of the national development of Canada to the present. Emphasis is placed on French Canada, the regional life and social organization of the country, the impact of continentalism, the development of the economy, and the rise of a national sentiment. Students may not hold credit for HIST 1400 and any of: HIST 1440 or HIST 1441.

HIST 1420 Asian Civilizations to 1500 (B) Cr. Hrs. 3

A study of major themes in the history and culture of China and Japan, the Indian subcontinent and Southeast Asia from ancient times to around 1500. Also offered as Asian Studies ASIA 1420. May not be held with ASIA 1420 or the former HIST 1410.

HIST 1430 Asian Civilizations from 1500 (B) Cr. Hrs. 3

A study of major themes in the history and culture of China and Japan, the Indian subcontinent and Southeast Asia in modern times. Also offered as Asian Studies ASIA 1430. May not be held with ASIA 1430 or the former HIST 1410.

HIST 1440 History of Canada (C) Cr. Hrs. 6

A study of Canadian development from earliest days to the present. Emphasis is placed on Aboriginal societies, the history of French Canada, the regional life and social organization of the country, the impact of colonialism and continentalism, and the rise of nationalisms. Students may

not hold credit for HIST 1440 and any of: HIST 1441 or HIST 1390 or HIST 1400.

HIST 1500 An Introduction to Modern World History: 1500-Present (M) Cr. Hrs. 6

A study of the forces which created the modern world, including the rise of capitalism, colonial expansion from the 15th Century on, and the emergence of revolution and counter-revolution in the 20th Century. Students may not hold credit for both HIST 1500 and any of: HIST 1370 or HIST 1380.

8.14.3 History Course Descriptions-2000 Level**HIST 2010 Indigenous History in Canada (C) Cr.Hrs. 6**

A historical survey of Indigenous peoples in Canada from early times to the present. The course will cover pre-contact peoples, responses to the European arrival, military alliances, the fur trade, the Métis, treaties, government policies and Indigenous responses, and cultural resurgence and political organizing since 1945. Also offered as NATV 2012. May not be held for credit with NATV 2012 or the former HIST 2280.

HIST 2020 The Métis in Canada (C) Cr.Hrs. 3

A history of the Métis in Canada. Also offered as NATV 2020. May not be held for credit with NATV 2020.

HIST 2050 South Asia since 1947 (B) Cr. Hrs. 3

A comparative history of India, Pakistan, Bangladesh and Sri Lanka since their achievement of independence in the late 1940s.

HIST 2130 Emergence of Modern South Asia: 1757-1947 (B) Cr. Hrs. 3

A survey of major developments in the modern history of the Indian subcontinent with particular reference to colonialism and nationalism and to the 20th Century emergence of India, Pakistan, and Bangladesh.

HIST 2140 Colonial Latin America (A) Cr. Hrs. 3

A survey of the major developments in Latin America from the Indigenous cultures and European Conquest to Independence in 1821.

HIST 2150 Independent Latin America (A) Cr. Hrs. 3

A survey of the major developments in Latin America from Independence in 1821 to the present.

HIST 2180 The History of Catholicism to 1540 (G) Cr. Hrs. 3

The history of Roman Catholicism from the first century to 1540. Emphasis will be placed on the external forces and internal developments that have shaped Catholicism.

HIST 2200 Labour History: Canada and Beyond (C) Cr. Hrs. 3

This course explores the history of working people's struggles, victories and defeats in Canada, with attention to gender, "race" and ethnicity. Topics include the origins and evolution of labour unions and workplace rights and the role of politics and social movements. Also offered as LABR 2200. May not be held with LABR 2200.

HIST 2210 History of Britain, 1485 to the Present (E) Cr. Hrs. 6

A general survey of British history from 1485 to the present. Emphasis is placed on constitutional, political, and diplomatic themes; social, economic,

and cultural factors are also discussed. Students may not hold credit for both HIST 2210 and HIST 2211.

HIST 2220 The Shaping of Modern Ireland, 1500-Present (E) Cr. Hrs. 6

The history of Ireland from 1500 to the end of the twentieth century focusing on changes in political, social, religious, economic and cultural relationships in shaping Modern Ireland.

HIST 2230 History of the United States from 1607 (A) Cr. Hrs. 6

A survey of the development of the American people and their institutions from Colonial times to the present day. Students may not hold credit for HIST 2230 and any of: HIST 2750 or HIST 2760 or HIST 2761.

HIST 2240 History of Antisemitism and the Holocaust (E) Cr. Hrs. 6

A survey of the role of the Jewish minority in Christian Europe over the past two thousand years. First term will focus on the evolution of anti-Jewish ideas and policies. Second term will be a study of the Nazi German Holocaust and, in particular, the role of antisemitism as a causal factor therein. Students may not hold credit for both HIST 2240 and the former JUD 2940.

HIST 2250 Social History of the Jews: Antiquity to Present (G) Cr. Hrs. 6

A social, economic, and political history of the Jewish experience from the beginnings of the Jewish diaspora to the present, covering Jewish communities in medieval and modern Europe, the Middle East, and North America.

HIST 2282 Inventing Canada (C) Cr. Hrs. 3

This course examines the "invention" and "reinvention" of Canada both before and after Confederation. It examines the process of invention from a range of different perspectives: political, cultural, economic, and social.

HIST 2286 Modern Canada (C) Cr. Hrs. 3

This course addresses the history of Canada since the First World War with attention to social, political, economic, diplomatic and cultural topics such as: interwar and postwar life, struggles for equality, international and internal conflict, immigration, new technologies, nationalism, aboriginal affairs, the arts and Canada's role in the world. Students may not hold credit for HIST 2286 and any of: HIST 2971 or HIST 3050 or the former HIST 2970.

HIST 2288 History of Social Movements in Canada (C) Cr. Hrs. 3

This course examines how Canadian democracy has historically been contested, debated, and challenged. It will focus on the post-Confederation history of social movements, citizen engagement, and state responses to dissent. The course will discuss grassroots movements of workers, the poor, women, indigenous peoples, and racial and ethnic minorities. Students may not hold credit for both HIST 2288 and the former HIST 2284.

HIST 2350 Europe 1789-1870 (E) Cr. Hrs. 3

The History of Europe during the French Revolution and the conservative reaction to it, focusing on political ideologies and national and international politics. Students may not hold credit for both HIST 2350 and HIST 2370.

HIST 2360 Europe 1870 to the Present (E) Cr. Hrs. 3

The history of Europe since 1870, focusing on industrialisation, imperialism, political ideologies, and national and international politics. Students may not hold credit for both HIST 2360 and HIST 2370.

HIST 2370 History of Europe since the French Revolution (E) Cr. Hrs. 6

The history of Europe since 1789, focusing on industrialization, political ideologies, and national and international politics. Students may not hold credit for HIST 2370 and any of: HIST 2350 or HIST 2360.

HIST 2390 Early Modern Europe, 1450-1789 (D,E) Cr. Hrs. 6

This course is a survey of early modern European history. It will include such major topics as the Renaissance, the printing revolution, the Reformation, European interactions with the rest of the world and imperialism, the military revolution, the witch trials and the Enlightenment.

HIST 2400 History of Human Rights and Social Justice in the Modern World (G,M) Cr. Hrs. 3

Introductory course examining the emergence of the modern human rights era and social justice movements globally. Possible topics of study: human rights as global norm; non-Western conceptions of rights; workplace rights; indigenous rights; women's and gender rights.

HIST 2410 History of India (B) Cr. Hrs. 6

The aim of the course is to introduce students to Indian history. It provides a broad survey of major developments in Indian history from its origins in Indus valley to the present.

HIST 2420 The Medieval World (D) Cr. Hrs. 6

A survey of the society and culture of the Middle Ages, from 500-1500.

HIST 2490 History of Russia (E) Cr. Hrs. 6

A survey of Russian history from its origins to the present. Students may not hold credit for HIST 2490 and any of: HIST 2660 or HIST 2661 or HIST 2840 or HIST 2841.

HIST 2500 History of Africa (R) Cr. Hrs. 6

A broad survey of African history from pre-colonial times through colonialism to the post-colonial present.

HIST 2502 The Modern Middle East: A Critical Survey (R) Cr. Hrs. 6

Survey of the major issues in the history of the modern Middle East. Emphasis on understanding today's social and political context in the Middle East through the lens of history. Students may not hold credit for both HIST 2502 and HIST 2900 with the topic "The Middle East from the Rise of Islam to the Nation State."

HIST 2520 A History of Germany since the Reformation (E) Cr. Hrs. 6

A survey of German history from the 16th Century to the present day.

HIST 2570 Nationalism in Modern Times (M) Cr. Hrs. 3

A study of the ideology and practices of national movements in the 19th and 20th Centuries. Attention will be given in particular to the development of the idea of the nation, and nation-building in the twentieth-century world.

HIST 2600 Introduction to Ukraine (E) Cr. Hrs. 3

A history of Ukraine and its people, beginning with medieval Kievan Rus' and ending in the 18th century with Ukraine's absorption into Russian and Austrian empires.

HIST 2610 Making of Modern Ukraine (E) Cr. Hrs. 3

A history of cultural, religious, economic and political forces, in the period 1800 to the present, that stimulated Ukraine's struggle for national independence from foreign domination.

HIST 2650 Modern China and Japan (B) Cr. Hrs. 6

An examination of the major developments in East Asian history from the mid-1800s to the present. Topics to be studied include Western imperialism in East Asia, the Chinese revolutions, Japanese and Chinese approaches to modernization, democracy movements in Japan and China, and how Sino-Japanese relations shape the history of region.

HIST 2654 History of the People's Republic of China, 1949-Present (B) Cr. Hrs. 3

This course examines the history of the People's Republic of China from its founding in 1949 through the present day. The course considers continuity and change between the Maoist and post-1976 periods as well as changing meanings of socialism and their impact on state power and social orders.

HIST 2660 History of the Soviet Union (E) Cr. Hrs. 3

Attention will be given in particular to the Russian Revolution, the nature of the Soviet political system, the major social and economic experiments, and the Soviet role in international politics. Students may not hold credit for HIST 2660 and any of: HIST 2661 or HIST 2490 or the former HIST 3471.

HIST 2670 History of Capitalism (M) Cr. Hrs. 3

A study of the emergence and evolution of the capitalist system stressing its effects on human culture from the 15th to the 20th Centuries. Students may not hold credit for both HIST 2670 and HIST 2671.

HIST 2680 A History of Socialism from the French Revolution to the Present (M) Cr. Hrs. 3

The history of socialism, both revolutionary and nonrevolutionary from the French Revolution to the present. The course covers the history of theory and political action, and of both European and non-European socialism.

HIST 2730 Modern World History, 1914-1945: The 30 Years' Crisis (G, M) Cr. Hrs. 3

A global economic, social, political and cultural history of the twentieth century history from World War I to the eve of the Cold War, emphasizing the impact of war and economic crisis. Students may not hold credit for HIST 2730 and any of: HIST 2381 or the former HIST 2380.

HIST 2732 Modern World History, 1945-1992: The Age of Three Worlds (G, M) Cr. Hrs. 3

A global, economic, social, political and cultural history of the twentieth century from the onset of the Cold War and decolonization to the collapse of the Soviet Union. Students may not hold credit for HIST 2732 and any of: HIST 2381 or the former HIST 2380 or the former HIST 2720.

HIST 2734 Modern World History, 1980-Present: New World Order? (G, M) Cr. Hrs. 3

A global, economic, social, political and cultural history of the twenty-first century, emphasizing the on-going development of the post-Cold War international economic and political order. Students may not hold credit for

HIST 2734 and any of: HIST 2381 or the former HIST 2380 or the former HIST 2720.

HIST 2750 History of the United States from 1607 to 1877 (A) Cr. Hrs. 3

A survey of the development of the American people and their institutions from Colonial times to Reconstruction. Students may not hold credit for HIST 2750 and any of: HIST 2230 or HIST 2041.

HIST 2760 History of the United States from 1877 (A) Cr. Hrs. 3

A survey of the development of the American people from Reconstruction to the present. Students may not hold credit for HIST 2760 and any of: HIST 2761 or HIST 2230.

HIST 2820 An Introduction to Historical Method (G) Cr. Hrs. 6

This course is intended mainly for prospective history and social science teachers but also will be useful for History Major and Honours students. It combines a survey of approaches to the writing of history, past and present, and, through the presentation of a research paper, an introduction to the use and assessment of historical evidence. Students may not hold credit for both HIST 2820 and the former HIST 2821.

HIST 2840 A History of Russia to 1917 (E) Cr. Hrs. 3

A survey of the historical development of Russia from its beginnings to the end of the Imperial period. Students may not hold credit for HIST 2840 and any of: HIST 2841 or HIST 2490 or the former HIST 3471.

HIST 2900 Topics in Social History (G) Cr. Hrs. 6

The content of this course will vary from year to year. A description of the course is available in advance at the History Department Office. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 2930 The History of the British Isles, 412-1485 (D) Cr. Hrs. 6

A survey of the political, social, religious and cultural history of the British Isles (with special emphasis on England) from the end of the Roman occupation to the conclusion of the Wars of the Roses.

HIST 2990 The History of Catholicism since 1540 (G) Cr. Hrs. 3

Description The history of Roman Catholicism from about 1540 to the present. Emphasis will be placed on Catholic responses to the modern world and to movements of theological and institutional reform. Students may not hold credit for both HIST 2990 and HIST 2991.

8.14.3 History Course Descriptions-3000 Level

HIST 3020 South America since 1945 (A) Cr. Hrs. 3

Major developments since 1945 on the continent of South America, with special emphasis on major political movements, Marxism and populism, the impact of industrialization, and South America's international role. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3040 Mexico, Central America, and Cuba since 1945 (A) Cr. Hrs. 3

Major developments since 1945, with special emphasis on changes in the Mexican revolutionary system, the crisis in Central America, and the Cuban Revolution. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3050 Canada since 1945 (C) Cr. Hrs. 6

A problems approach to recent Canadian history involving lectures and seminars. Emphasis will be placed on political, social and economic issues of national interest during the last 40 years. Students may not hold credit for both HIST 3050 and HIST 2286. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3052 Canada since the 1960s (C) Cr. Hrs. 3

Examines fundamental topics and themes in Canada's politics, economy and society from the 1960s to the present, including: Quebec nationalism after 1960; western regionalism and the reassertion of provincial rights since the 1970s; the women's movement and first nations' activism since the 1960s; constitutional reform, patriation and the Charter of Rights and Freedoms in the 1980s and 1990s; free trade and globalization since the 1980s. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3054 Canada and the United States (C) Cr. Hrs. 3

This course will undertake a detailed and comprehensive study of Canada's relationship with its neighbour from the eighteenth century to the present. Students may not hold credit for both HIST 3054 and the former HIST 3220. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3062 German and German-Jewish History, 1618 to the Present (E) Cr. Hrs. 6

The history of Germany from 1618 to the present with a focus on the experience of German Jewry. Students may not hold credit for HIST 3062 and any of: HIST 3064 or HIST 3066 or the former HIST 3060. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3064 German and German-Jewish History, 1618-1900 (E) Cr. Hrs. 3

Description The history of Germany from 1618 to 1900 with a focus on the experience of German Jewry. Students may not hold credit for HIST 3064 and any of: HIST 3062 or the former HIST 3060. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3066 German and German-Jewish History, 1900 to the Present (E) Cr. Hrs. 3

The history of Germany from 1900 to the present with a focus on the experience of German Jewry. Students may not hold credit for both HIST 3066 and HIST 3062. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3070 History of the United States from 1877 to 1939 (A) Cr. Hrs. 6

This course will trace the political, social, economic, and cultural history of the United States from the period of Reconstruction to the start of the Second World War. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3080 History of American Consumer Culture (A) Cr. Hrs. 3

This course will trace the development of American consumer society from the colonial era to the present. Topics addressed include the histories of: branding, mass distribution, department stores, advertising, mass-market magazines, consumer organizing, and consumer protest. Prerequisite: [a

grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3090 Studies in Asian History (B) Cr. Hrs. 3

The content of this course will vary. It is designed to provide in-depth examination of specialized themes or areas in modern Asian history. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3110 Topics in History 1 (G) Cr. Hrs. 3

An opportunity for the intensive study of selected topics or themes in history. The content varies, but may include work in social and cultural history or on specialized subjects. Consult the History Department and the Registration Guide for particulars. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3136 History of Medieval Italy, 568-1300 (D) Cr. Hrs. 3

An examination of the political, social, economic and cultural history of the Italian peninsula from the arrival of the Lombards to the development of city republics. Students may not hold credit for both HIST 3136 and HIST 3140. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3138 History of Medieval Italy, 1300-1500 (D) Cr. Hrs. 3

An examination of the political, social, economic and cultural history of the Italian peninsula during the later Middle Ages. Students may not hold credit for both HIST 3138 and HIST 3140. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3140 Medieval Italy (D) Cr. Hrs. 6

A study of topics in the history of the Italian peninsula between the 6th and 15th centuries, with emphasis on urban life, gender, and religious culture. Students may not hold credit for HIST 3140 and any of: HIST 3136 or HIST 3138. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3210 The History of Popular Radicalism in the Twentieth Century (M) Cr. Hrs. 6

Studies in the history of popular radicalism since the Bolshevik Revolution. Topics will include the development of communist and social democratic movements in the West, socialist revolutions in the underdeveloped world, the nature of communist workers' states and the development of radical theory. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3212 Global Sweatshops, Global Struggles (M) Cr. Hrs. 3

This course explores the past and present of sweated work in various industries in the Global North and South. We explore circumstances that support sweatshops, including off-shoring and the new international division of labour, migrant, child and female labour forces; global supply chains and the role of retailers and contractors. We also compare and evaluate strategies to eliminate sweatshops, include NGO activities, government regulations, consumer boycotts and the international labour, student and social justice movements. Also offered as Labour Studies LABR 3220. Students may not hold credit for both HIST 3212 and LABR 3220. Prerequisite: [a grade of "C" or better in six credit hours of History or written consent of the department head] or [a grade of "C" or better in three credit

hours of 1000 level Labour Studies or written consent of the Labour Studies coordinator].

HIST 3214 Canada's Left: Rebellion and Repression (C) Cr. Hrs. 3

This course traces the emergence and evolution of Canada's left from the late nineteenth century to the present, with an emphasis on its two main streams, communism and social democracy. Topics include the relationship between popular, party, labour, and ethnic lefts; left parties and mainstream politics; the left in the evolution of human rights and in other public policies; the treatment within various lefts of gender, race, sexuality and ethnicity; popular movements; legal constraints and state repression. Also offered as LABR 3214. Not to be held with LABR 3214. Prerequisite: [a grade of "C" or better in six credit hours of History or written consent of department head] or [a grade of "C" or better in three credit hours of 1000 level Labour Studies or written consent of Labour Studies coordinator].

HIST 3250 Canada and the World, 1867 to the Present (C) Cr. Hrs. 6

A study of selected aspects of Canada's external relations since Confederation. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3260 Commerce, Rights and Empire in European Thought, 500-2000 (M) Cr. Hrs. 3

This course will scrutinize the intersection of commerce and governance in Europe from c.500 to the present, paying particular attention to the way that debates about commerce, war and peace have generated notions of human rights over the past three centuries. We will explore whether and how debates about the proper way to govern trade played important roles not only in the creation of the modern categories of the "state" and the "economy," but also in understandings of the person as a rational actor of politics with substantial rights. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3272 The Métis Nation: The Modern Era (C) Cr.Hrs. 3

A study of the dispossession of the Métis Nation after 1870, their resurgence in the 1950s and contemporary issues affecting Métis people in Canada. Also offered as NATV 3270. May not be held for credit with NATV 3270. Prerequisite: [a grade of "C" or better in six credit hours of Canadian History] or written consent of department head.

HIST 3290 The United States since 1939 (A) Cr. Hrs. 6

This course offers a social, cultural, economic, and political exploration of the United States from World War II to the present day. It examines how actual military conflicts (World War II, Vietnam) and metaphoric wars (the War on Poverty, the War on Drugs) have shaped American Society. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3340 Studies in the History of Digital Culture (G) Cr. Hrs. 3

This course will examine the social-cultural meanings of computer and communications technologies. The course will predominantly treat the twentieth and twenty-first centuries, examining the evolution of technologies from the 1930s to today. Focused on the global west, the course will also consider the worldwide implications and reach of digital cultures and technologies. Students may not hold credit for both HIST 3340 and the former HIST 3120 with the topic "History of Digital Culture." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3430 Britain, 1714-1815 (E) Cr. Hrs. 6

An examination of the political structure, constitutional developments, colonial problems, and social and religious changes, the impact of the industrial revolution, and the reaction to the French Revolution in Britain during this period. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3442 Race, Ethnicity, Immigration, and Nation in Canadian History (C) Cr. Hrs. 3

This course examines topics in the history of immigration, colonization, race, and ethnicity in Canada. Beginning with the incursions of European immigrants onto First Nations territories, the course investigates attitudes and policies concerning immigration, the interaction of colonization and immigration, discourses of race and ethnicity, and race and ethnic relations within Canadian society. Students may not hold credit for both HIST 3442 and HIST 3780 with the topic "Race and Immigration in Canadian History." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3480 The Margins of the Middle Ages (D) Cr. Hrs. 3

A study of groups and movements situated on the periphery of European society between 1100 and 1500. Prerequisite: [a grade of "C" or better in HIST 2420] or written consent of department head.

HIST 3504 Apartheid South Africa and the Struggle for Human Rights (R) Cr. Hrs. 3

An examination of the apartheid system and its impact with special emphasis on local and international struggles against the system. Students may not hold credit for both HIST 3504 and HIST 3110 with the topics "Nelson Mandela from Prisoner to President" and "Apartheid and the Struggle for Democracy and Human Rights." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3506 History of South Africa: From Jan van Riebeck to Nelson Mandela (R) Cr. Hrs. 3

This course explores the various intersections of statecraft, the economy, society and identity by looking at how resources, labour and political control played out in changing mechanisms of power, accommodation and resistance in South Africa during the colonial and apartheid eras. Students may not hold credit for both HIST 3506 and HIST 3110 with the topic "History of South Africa: from Jan van Riebeck to Nelson Mandela." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3550 Popular Culture, Crime and Punishment in England, 1550-1850 (E) Cr. Hrs. 3

A history of crime and the institutions for its control and punishment in England from the Tudor period to the turn of the nineteenth century. We will trace the connections between crime and larger processes such as war, the economy and urbanization. Topics will include the changing patterns of crime, the role of gender in the application of law, the reform of the criminal law and the emergence of imprisonment. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3572 The History of Women, Gender, and Sexuality in Canada (C) Cr. Hrs. 6

This course examines the history of women, gender, and sexuality in Canada's past and how gender and sexuality have structured the histories of Indigenous people, English and French colonization, nation-building, immigration and urbanization, politics, war, and protest. Students may not

hold credit for both HIST 3572 and the former HIST 3570. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3574 Disease and Society in the Modern World (G,M)

Cr. Hrs. 3

This course will emphasize the relationship between disease and imperialism, capitalist development, and war; and examine social and state responses. The course will explore connections between the biological and the cultural aspects of infectious disease experiences. Students may not hold credit for both HIST 3574 and HIST 3110 with the topics "History of Disease" and/or "History of Health and Disease." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3580 Topics in Recent World History (M)

Cr. Hrs. 3

An in-depth treatment of selected topics in world history since 1945. The content of the course will vary from year to year, and a precise description is available in advance from the History department office. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3680 Europe, 1870-1945 (E)

Cr. Hrs. 6

Europe at the zenith of its power. The course examines the dominant forces and personalities of the period between Bismarck and Hitler. It emphasizes nationalism and minorities questions; the origins and events of the two world wars; and the domestic concerns of the major European states. Students may not hold credit for HIST 3680 and any of: HIST 3682 or HIST 3684. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3682 Europe 1870-1918 (E)

Cr. Hrs. 3

Europe at the zenith of its power. The course examines the dominant forces and personalities of the period from Bismarck to the end of the First World War. It emphasizes the domestic and international concerns of the major European powers, the industrial revolution, and the partition of Africa, as well as the causes and events of the First World War. Students may not hold credit for both HIST 3682 and HIST 3680. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3684 Europe 1918-1945 (E)

Cr. Hrs. 3

Europe in decline. The course examines the peace settlement of 1919, and the balance of power generally. It also considers fascism, the Russian Revolution, the rise of Nazism, the Spanish Civil War in addition to the origins and events of the Second World War. Students may not hold credit for both HIST 3684 and HIST 3680. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3690 History of Northern Canada (C)

Cr. Hrs. 6

A regional history of northern Canada with particular emphasis on native people. Themes will include culture contact, economic exploitation of northern territories, and the political relationship of metropolis and hinterland in Canada. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3700 History of Working People and Labour Movements 1700 to the Present (G)

Cr. Hrs. 6

A survey of working class history with emphasis upon the varieties of labour movements and trade unions. The course will refer to the social and

political experience of working people in Great Britain, Europe and the United States and will devote one term to Canadian topics. Also offered as Labour Studies LABR 3700. May not be held with LABR 3700. Prerequisite: [a grade of "C" or better in six credit hours of history or labour studies] or written consent of department head.

HIST 3730 A History of Western Canada (C)

Cr. Hrs. 6

A regional history emphasizing the development of a Western perspective upon the nation. Topics include the fur trade and Red River Settlement, transition to Canadian institutions, the wheat economy, immigration, labour and political movements, cultural changes. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3740 Topics in Latin American History (A)

Cr. Hrs. 3

The contents of this course will be announced each year. Consult the History Department. It is designed to provide in-depth studies of specialized subjects and themes in modern Latin American history. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3750 Indigenous Peoples in Modern Latin America (A)

Cr. Hrs. 3

A study of indigenous peoples in modern Latin America. Topics to be discussed will include the construction of racial hierarchies and exclusionary nation-states, indigenous engagements with leftist politics and revolution as well as struggles for political autonomy and cultural rights. Students may not hold credit for both HIST 3750 and HIST 3740 with the topic "Indigenous Peoples and the Nation-State in Modern Latin America." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3760 Problems in American History 1 (A)

Cr. Hrs. 3

The subject matter of this course will be announced each year. Consult the History department. Students may not hold credit for both HIST 3760 and HIST 3761. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3780 Studies in Canadian History 1 (C)

Cr. Hrs. 3

The content of this course will vary. It is designed to provide in-depth studies of specialized topics and themes in Canadian history. A precise description of the course is available in advance at the History department office. Students may not hold credit for both HIST 3780 and HIST 3781. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 3800 History of Winnipeg from 1870-2000 (C)

Cr. Hrs. 3

A study of the social history of the city of Winnipeg from its origins through to the Aboriginal Justice Inquiry (1991). Students may not hold credit for both HIST 3800 and the former HIST 3790 with the topic "History of Winnipeg." Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3880 Europe in Transition: 1348-1648 (E)

Cr. Hrs. 6

A study of the transition from the medieval to the modern world. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3910 The Ukrainians in Canada (C) Cr. Hrs. 3

A history of the Ukrainian community in Canada. Topics to be discussed will include immigration, social and political organizations, churches, cultural assimilation, Ukrainian contributions to Canada, and relations with Ukraine. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3980 Nationalism on the Indian Sub-Continent in the Twentieth-Century (B) Cr. Hrs. 3

A study of the emergence and consolidation of the nations of India, Pakistan and Bangladesh, 1909 to the present. Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3990 Seminar in Selected History Topics (G) Cr. Hrs. 6

This course will provide a systematic introduction to advanced research seminars, paying particular attention to the development of: oral skills and public presentation of ideas and research; focused historiographical discussion and analysis; and advanced historical research and writing skills. This course provides the skills and preparation for Year IV of the History Honours program. Prerequisite: [a grade of "C" or better in six credit hours of History] and written consent of department head.

8.14.3 History Course Descriptions-4000 Level

HIST 4000 Topics in History (G) Cr. Hrs. 3

The content of this course will vary. It is designed to provide students with specialized topics and themes in History. A description of the course is available in advance at the History Department Office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4010 Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (G,M) Cr. Hrs. 6

Studies in the theories and practise of imperialism from an historical perspective. Prerequisite: written consent of department head.

HIST 4040 The Later Middle Ages (D) Cr. Hrs. 6

Selected topics in economics, social, cultural, art, and religious history of the later medieval world. Prerequisite: written consent of department head.

HIST 4050 England in the Long Eighteenth Century (E) Cr. Hrs. 6

Selected themes in the history of England's long eighteenth century, from 1660-1840. Specific topics will vary from year to year, but will generally include the transformation of political culture, the consequences of war, the question of national identities, the emergence of commercial society and the changes in social structure. Prerequisite: written consent of the department head.

HIST 4060 Gender History in Canada (C) Cr. Hrs. 6

Gender history explores the roles, images, and experiences of masculinity and femininity in the past. This course will familiarize students with the changing theoretical and historiographical terrain of gender history. It will draw on the international literature but focus on the history of gender in Canada, examining how historians analyse masculinity, femininity, the

family, sexuality, politics, race/ethnicity, moral regulation, class, nation, and colonialism. Prerequisite: written consent of department head.

HIST 4070 Issues in Modern Asian History 1: Selected Topics (M,B) Cr. Hrs. 3

The content of this course will vary. Emphasis will be on analysis of important issues and recent developments in the history and historiography of modern Asia. Consult the History Department for particulars. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4100 Studies in American History since 1877 (A) Cr. Hrs. 6

An examination of selected topics in American history from Reconstruction to the present. Particular topics will be announced each year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4110 Selected Topics in British History (E) Cr. Hrs. 6

A seminar course whose content will vary. A description of the course is available in advance at the History department office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4120 History of Aboriginal Rights (C) Cr. Hrs. 6

A study of Aboriginal rights from early contact to the present with a particular emphasis on treaties, the courts, and Aboriginal efforts to enforce specific forms of rights. Prerequisite: written consent of department head.

HIST 4150 The Social History of the Latin American State (A) Cr. Hrs. 6

Readings on the history of Latin America since colonial times, focused on the dynamic relationship between different social groups and the state. Based on an interdisciplinary theoretical framework, this historical overview will cover different geographical areas, issues, and social factors. Prerequisite: written consent of department head.

HIST 4280 Topics in the Cultural History of Canada (C) Cr. Hrs. 6

Studies in Canadian cultural, communications, and intellectual history. Topics will vary from year to year but a description is available in advance at the History department office. Prerequisite: written consent of department head.

HIST 4300 Problems in Modern Russian and Soviet History (E) Cr. Hrs. 6

A study of selective historical problems from 1861 to the present. The focus will shift from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4310 Topics in Social History (G) Cr. Hrs. 6

The content of this course will vary. It is designed to provide students with specialized topics and themes in Social history. A description of the course is available in advance at the History department office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4320 Studies in World History since 1945 (G,M) Cr. Hrs. 6

A comparative approach to recent world history, utilizing area and thematic studies. Prerequisite: written consent of department head.

HIST 4340 Introduction to Archival Science (G) Cr. Hrs. 6

A thorough introduction to archival theory and practise with special emphasis on the history and development of archives and their place in modern society, terminology, collection development, appraisal arrangement, access, conservation, research aids and related archival principles. Prerequisite: written consent of department head.

HIST 4400 Historical Method and Historiography (G) Cr. Hrs. 6

A study of historical methods and historiography. Prerequisite: written consent of department head.

HIST 4500 Jewish and European History and Historiography (E) Cr. Hrs. 6

This seminar examines issues relating to Jewish history and historiography in the context of European history and historiography. Prerequisite: written consent of department head.

HIST 4580 The Great Historians (G) Cr. Hrs. 6

The readings of a select number of modern and classical historians. Preparation of a research paper on a particular historiographic problem. Prerequisite: written consent of department head.

HIST 4660 History of Health and Disease (G) Cr. Hrs. 6

Introduction to some of the principal issues and approaches in the history of health and disease. It is not meant to be a strictly chronological survey. Topics and themes may include the development of nursing and medical professions; transformation of the hospital; mental health; alternative therapies; colonization, infectious disease and aboriginal health; and health and the state. Prerequisite: written consent of department head.

HIST 4680 Social History of Health and Disease in Modern Canada (C) Cr. Hrs. 6

This course explores the history of health and health care in Canada, with a focus on the late 19th and 20th centuries. Topics will include colonization, infectious disease, and Aboriginal health; the evolution of medical and nursing professions; the emergence of the modern hospital; mental health, psychiatry and the asylum; cancer; alternative therapies; childbirth; health and old age; and health and the state. Analytical categories of gender, race, ethnicity, class, and sexuality will run throughout the material. Prerequisite: written consent of department head.

HIST 4870 Contemporary Latin America (A) Cr. Hrs. 6

A study of selected historical developments in Latin America since the Cuban Revolution, with emphasis on most recent themes. Prerequisite: written consent of department head.

HIST 4890 Canadian Social History (C) Cr. Hrs. 6

A study of the evolution of Canadian society with intensive analysis of topics such as the pioneer community, immigration, ethnic history, urban development. Prerequisite: written consent of department head.

HIST 4960 Special Studies in European History (E) Cr. Hrs. 6

A seminar course whose content will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

HIST 4990 Selected Topics

Cr. Hrs. 6

A program of independent reading and/or research on selected topics, undertaken and arranged by a student in consultation with prospective instructor, upon the written approval of the department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.15 Icelandic Studies

Head: Peter Buchan

Campus Address/General Office: 357 University College

Telephone: 204 474 8487

Email Address: mailto:um_icelandic@umanitoba.ca

Website: umanitoba.ca/icelandic

8.15.1 Program Information

The department offers a study of a cultural heritage that crosses centuries, oceans and continents, which includes courses in Icelandic language and literature and the poetics of immigration. The study of Icelandic prepares students for opportunities in research, teaching, translation, writing, interpretation and publishing.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in either ICEL 1200 or ICEL 2200. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in ICEL 1400 and ICEL 1410, or ICEL 1200 or ICEL 2200.

Honours Program

The Honours program is not currently offered.

For information on reciprocal recognition of credit for Scandinavian/Icelandic courses given by the University of Alberta and the University of Manitoba, see the department.

8.15.2 Icelandic

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|--------|
| GENERAL MAJOR (OPTION 1) TOTAL: 30 CREDIT HOURS | | | |
| ICEL 1200 ¹ | ICEL 2200 | 18 credit hours in Icelandic courses numbered at the 2000, 3000, or 4000 level | |
| GENERAL MAJOR (OPTION 2) TOTAL: 30 CREDIT HOURS | | | |
| ICEL 2200 | 24 credit hours in Icelandic courses numbered at the 2000, 3000, or 4000 level | | |
| MINOR (CONCENTRATION) (OPTION 1) TOTAL: 18 CREDIT HOURS | | | |

| | | | |
|---|---|-----------------------------|---|
| ICEL 1200 ¹ | ICEL 2200 | 6 credit hours in Icelandic | |
| MINOR (CONCENTRATION) (OPTION 2) TOTAL: 18 CREDIT HOURS | | | |
| ICEL 1400 and ICEL 1410, or ICEL 1200 | 12 credit hours in Icelandic | | |
| SINGLE HONOURS² | | | |
| ICEL 1200 ¹ | ICEL 2200, ICEL 2220, ICEL 2420, ICEL 2430 | ICEL 2310, ICEL 3400 | <ul style="list-style-type: none"> • ICEL 4420, ICEL 4440, ICEL 4460 • 3 credit hours in Icelandic courses numbered at the 3000 level |
| | <ul style="list-style-type: none"> • 15 credit hours of courses selected from: Classics, English, French, German, History, Philosophy or Russian, to be approved by the department head • 24 credit hours of ancillary options³ • 12 credit hours of free options⁴ | | |
| DOUBLE HONOURS² | | | |
| ICEL 1200 ¹ | ICEL 2200, ICEL 2220, ICEL 2420, ICEL 2430 | ICEL 2310, ICEL 3400 | ICEL 4420, ICEL 4440, ICEL 4460 |
| | <ul style="list-style-type: none"> • At least 36 credit hours in second honours field • 6 credit hours of ancillary options³ • 12 credit hours of free options⁴ | | |
| NOTES: | | | |
| ¹ Students with superior language ability will not be required to complete ICE 1200 upon successful completion of a written test administered by the department. | | | |
| ² Honours courses: ICEL 2310, ICEL 2420, ICEL 2430, ICEL 3400 and all 4000 level courses. | | | |
| ³ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Icelandic courses). | | | |
| ⁴ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Icelandic courses). | | | |

8.15.3 Icelandic Course Descriptions-1000 Level

ICEL 1200 Introduction to Icelandic Cr. Hrs. 6

The course is intended for students with little or no previous knowledge of Icelandic. Emphasis will be placed on reading comprehension and conversation skills, and students will also learn the basic grammatical structure of Icelandic and how to write short compositions. Pronunciation is developed in weekly language laboratory exercises. Students may not hold credit for both ICEL 1200 and the former ICEL 1240.

ICEL 1210 Conversational Icelandic Cr. Hrs. 3

This course is offered as part of the Summer Session course offerings. Intensive study of conversational Icelandic during a field trip to Iceland. Students will be trained in groups in a classroom setting before they try their language skills in authentic situations. The course is designed for beginners as well as intermediate students. Regular attendance is obligatory. Taught in English. Open to all students.

ICEL 1300 Introduction to Swedish Cr. Hrs. 3

The course is intended for beginners. Emphasis will be placed on conversation skills and reading comprehension, and students will also learn the basic grammatical structures of the language and how to write short compositions. Pronunciation is developed in weekly language laboratory exercises. Open to all students.

ICEL 1400 Introduction to Contemporary Culture in Iceland Cr. Hrs. 3

The aim of this course is to study and explore a selection of literature, music, and visual art, and cultural critique. Students will also get an opportunity to study and explore both global and local Icelandic cultural characteristics and the fusion of cultural influences in contemporary Iceland. Open to all students. Taught in English. Students may not hold credit for both ICEL 1400 and the former ICEL 1220.

ICEL 1410 Introduction to Culture in Medieval Iceland Cr. Hrs. 3

The aim of this course is to study a selection of sagas, history fragments and mythological sources. Students will also get an opportunity to explore the way in which world-renowned modern poets and writers have been drawn to, and seriously seduced by, the culture of medieval Iceland. Open to all students. Taught in English. Students may not hold credit for both ICEL 1410 and the former ICEL 1220.

8.15.3 Icelandic Course Descriptions-2000 Level

ICEL 2200 Intermediate Icelandic 1 Cr. Hrs. 6

Emphasis on expanding the vocabulary. Students are trained to read texts with more complex grammatical structures by studying fictional as well as non-fictional texts. Conducted in Icelandic. Students may not hold credit for both ICEL 2200 and the former ICEL 2240. Prerequisite: [a grade of "C" or better in ICEL 1200 or the former ICEL 1240] or written consent of instructor.

ICEL 2220 Modern Icelandic Literature in Translation Cr. Hrs. 3

A study of modern Icelandic literature through an analysis of a selection of works by Icelandic writers in English translation from around 1900 until the present.

ICEL 2230 Contemporary Icelandic-Canadian Literature Cr. Hrs. 3

An examination of contemporary Icelandic-Canadian literature in English, its individual characteristics and place within the broader field of Canadian literature.

ICEL 2310 An Introduction to Old Icelandic Language and Literature Cr. Hrs. 6

Text: Sigríð Valfélis and James E. Cathey. Old Icelandic: An Introductory Course (Oxford, 1981). Prerequisite: written consent of department head.

ICEL 2400 Icelandic Folktales in a European Context Cr. Hrs. 3

Reading of Icelandic legends and fairy tales and how they compare with stories from Northern and Central Europe. For the analysis, students will be introduced to central concepts and approaches to the study of folktales. Open to all students. Taught in English. Students may not hold credit for both ICEL 2400 and the former ICEL 2250 (012.225).

ICEL 2410 Special Topics Cr. Hrs. 3

Topics dealing with Icelandic literature, culture or language. Course content will vary from year to year depending on interest and needs of students and staff. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

ICEL 2420 Poetics of Immigration in Icelandic- Canadian Literature Cr. Hrs. 3

A study of Icelandic-Canadian literature, focusing on the poetics of immigration in the writings of Icelandic settlers and the first generation of Icelandic-Canadians. As a special assignment, students will study the voice of the poet, philosopher, and social prophet Stephan G. Stephansson, and the universal references of his poetics. Taught in English. Open to all

students. Students may not hold credit for both ICEL 2420 and the former ICEL 2300.

ICEL 2430 Translation of Cultures in Icelandic- Canadian Literature **Cr. Hrs. 3**

Description A study of Icelandic-Canadian literature, focusing on the translation of cultures in the writings of modern and contemporary Icelandic-Canadian poets and writers. Students will read a selection of prose and poetry. They will also study ideas on the indispensable role of the translation of cultures in the context of world literature. Open to all students. Taught in English. Students may not hold credit for both ICEL 2430 and the former ICEL 2300.

8.15.3 Icelandic Course Descriptions-3000 Level

ICEL 3200 Intermediate Icelandic 2 **Cr. Hrs. 6**

Reading of selected fictional and non-fictional texts. Translation exercises and composition followed by relevant review of grammar. A special focus is placed on syntax, word formation, and the use of idiomatic phrases. Conducted in Icelandic. Students may not hold credit for both ICEL 3200 and the former ICEL 3230. Prerequisite: [a grade of "C" or better in ICEL 2200 or the former ICEL 2240] or written consent of instructor. Prerequisite or co-requisite: [LING 1200 or LING 1440 or the former ENGL 2470] or written consent of instructor.

ICEL 3210 Romanticism in Icelandic Literature **Cr. Hrs. 3**

The aim of this course is to study the concept of Romanticism in Icelandic literature and the key players in the Romantic movement in nineteenth century Iceland. A selection of poems, prose texts, and fragments will be read carefully, in particular the writings of Jónas Hallgrímsson. Taught in English. Prerequisite: [a grade of "C" or better in a minimum of 30 credit hours of university level coursework] or written consent of department head.

ICEL 3320 Old Norse Mythology **Cr. Hrs. 3**

The myths and cults of the pre-Christian gods in the Nordic countries studied on the basis of the original sources (in English translation) and related to pre-Christian Nordic society. Open to all students; taught in English.

ICEL 3330 Icelandic Sagas in Translation **Cr. Hrs. 3**

The Medieval Icelandic sagas tell stories of outlaws, blood feuds and epic Viking battles. They also contain evidence of Norse pagan practices, the arrival of Christianity in Northern Europe, as well as the earliest documented contact between Europeans and North America's Indigenous peoples. In this course students will explore several of the Icelandic sagas in English translation through a variety of literary, historical and cultural contexts. Open to all students; taught in English. ICEL 3320 is recommended, but not required.

ICEL 3400 Old Icelandic Literature **Cr. Hrs. 6**

A study of selected Icelandic sagas and Eddic poems. Prerequisite: written consent of department head.

8.15.3 Icelandic Course Descriptions-4000 Level

ICEL 4420 History of the Icelandic Language **Cr. Hrs. 3**

A study of the development of the Icelandic language from the twelfth century to the present day. Prerequisite: written consent of department head.

ICEL 4440 The Icelanders in Canada **Cr. Hrs. 3**

A history of the emigration of Icelanders to North America and the Icelandic communities in Canada, their social and political organizations, churches, and cultural assimilation. Prerequisite: written consent of department head.

ICEL 4460 Special Topics **Cr. Hrs. 3**

A seminar course whose content will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.16 Interdisciplinary Courses

The Faculty of Arts offers a number of interdisciplinary courses designed by a course committee consisting of members of a number of departments. Interdisciplinary courses are free options, and a student may register for more than one.

Cross-disciplinary programs are available in:

| | |
|-------------------------------------|----------------------------------|
| Asian Studies | See Section 8.2 |
| Canadian Studies | See Section 8.3 |
| Catholic Studies | See Section 8.4 |
| Central and East European Studies | See Section 8.5 |
| The Changing Workplace | See Section 8.6 |
| Global Political Economy | See Section 8.13 |
| History of Art | See Section 9.1 |
| Labour Studies | See Section 8.18 |
| Latin American Studies | See Section 8.19 |
| Medieval and Early Modern Studies | See Section 8.21 |
| Ukrainian Canadian Heritage Studies | See Section 8.28 |
| Women's and Gender Studies | See Section 8.29 |

8.16.1 Interdisciplinary-Others Course Descriptions

ARTS 1110 Introduction to University **Cr. Hrs. 3**

A seminar course designed to help students make the transition to university by imparting the knowledge, skills, and attitudes requisite for success in university study. Each section limited to 30 students. Open only to students who have completed fewer than 60 credit hours of course work. Students may not hold credit for both ARTS 1110 and ARTS 1111.

ARTS 1160 Leadership: An Interdisciplinary Approach **Cr. Hrs. 3**

This course provides an introduction to the key issues and concerns of leadership and leadership studies, focusing on the central question of "what is leadership." Students will examine the philosophical and historical foundations of leadership theory and practice, along with the more contemporary (and often more theoretical) reflections on both leadership practices and the varied disciplines that study them. This course will satisfy the Faculty of Arts Social Science requirement. Students may not hold credit for both ARTS 1160 and LEAD 2010.

ARTS 3010 Arts Co-operative Option 1 **Cr. Hrs. 1**

Work assignments in business, industry, or government for students admitted to the Arts Co-operative Option. Required submission of a written report covering the work completed during the work term. Prerequisite:

written consent of the Arts Co-operative Option Coordinator and the Faculty of Arts. Graded pass/fail.

ARTS 3020 Arts Co-operative Option 2 Cr. Hrs. 1

Work assignments in business, industry, or government for students admitted to the Arts Co-operative Option. Required submission of a written report covering the work completed during the work term. Prerequisite: ARTS 3010 and written consent of the Arts Co-operative Option Coordinator and the Faculty of Arts. Graded pass/fail.

ARTS 3030 Arts Co-operative Option 3 Cr. Hrs. 1

Work assignments in business, industry, or government for students admitted to the Arts Co-operative Option. Required submission of a written report covering the work completed during the work term. Prerequisite: ARTS 3020 and written consent of the Arts Co-operative Option Coordinator and the Faculty of Arts. Graded pass/fail.

8.17 Judaic Studies

Program Coordinator: Haskel Greenfield
 General Office: 328 Fletcher Argue
 Telephone: 204 474 6691
 E-mail: Judaic_Studies@umanitoba.ca
 Website: umanitoba.ca/judaic_studies

8.17.1 Program Information

The Judaic Studies Program promotes the study of Jewish civilization, of Jewish religious expressions and traditions, and of Jewish cultural, social, linguistic, and political formations and movements in all their variety. It supports teaching and research on Jewish life and Judaism from the Biblical period to the twenty-first century, in all parts of the world where Jews have lived. Judaic Studies approaches these subjects from all disciplinary angles and scholarly perspectives, and equally welcomes Jewish and non-Jewish scholars and students. The program includes the official non-English languages of Israel (Hebrew and Arabic).

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

Effective the 1989-1990 Regular Session, the General Major and Single Advanced Major in Judaic Studies will not be offered until further notice.

Minor (Concentration) Program

A) Judaic Studies

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in the first six credit hours of Judaic Studies and/or List A courses.

B) Yiddish

Effective with the 1989-1990 Regular Session, the Minor (Concentration) in Yiddish will not be offered until further notice.

8.17.2 Judaic Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--------|--------|--------|
| GENERAL MAJOR JUDAIC STUDIES [NOT CURRENTLY OFFERED] | | | |
| TOTAL: 30 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> • 6 credit hours in Language and Literature (Hebrew¹, Yiddish, or Arabic²) • 6 credit hours in Judaic Civilization • 18 credit hours in Judaic Studies | | | |

| | | | |
|--|-----------|---|--|
| SINGLE ADVANCED MAJOR JUDAIC STUDIES [NOT CURRENTLY OFFERED] TOTAL: 48 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> • 12 credit hours in Language and Literature (Hebrew¹, Yiddish, or Arabic²) • 12 credit hours in Judaic Civilization • 24 credit hours in Judaic Studies | | | |
| MINOR (CONCENTRATION) JUDAIC STUDIES TOTAL: 18 CREDIT HOURS | | | |
| 18 credit hours in Judaic Studies and/or List A | | | |
| MINOR (CONCENTRATION) YIDDISH [NOT CURRENTLY OFFERED] TOTAL: 18 CREDIT HOURS | | | |
| YDSH 1220 | YDSH 2320 | 6 credit hours in Hebrew Language and Literature or Judaic Civilization | |
| NOTES: ¹ A language-placement interview is required before registration. Normally, elementary Hebrew day school graduates begin with HEB 1260 while secondary Hebrew day school graduates begin with language courses numbered at the 2000 or 3000 level. ² A language-placement interview is required before registration. | | | |

| List A | Courses Acceptable for Judaic Studies Credit | |
|---|---|---|
| With written consent of the program coordinator courses not on this list may be taken for credit if they include sufficient Judaic Studies content. | | |
| Course No. | Credit Hours | |
| Classics | | |
| CLAS 3260 | Hellenistic Civilization: History and Archaeology | 3 |
| GRK 2810 | Prose Writings of the Hellenistic and Greco-Roman Periods | 3 |
| German and Slavic Studies | | |
| GRMN 3260 | Representations of the Holocaust (B) | 3 |
| GRMN 3262 | Representations of the Holocaust in English Translation (C) | 3 |
| UKRN 2820 | Holodomor and Holocaust in Ukrainian Literature and Culture | 3 |
| History | | |
| HIST 2240 | History of Antisemitism and the Holocaust (E) | 6 |
| HIST 2250 | Social History of the Jews: Antiquity to Present (G) | 6 |
| HIST 3062 | German and German-Jewish History, 1618 to the Present (E) | 6 |
| HIST 3064 | German and German-Jewish History, 1618-1900 (E) | 3 |
| HIST 3066 | German and German-Jewish History, 1900 to the Present (E) | 3 |
| HIST 4500 | Jewish and European History and Historiography (E) | 6 |
| Political Studies | | |
| POLS 3340 | Middle East Politics | 3 |
| POLS 3342 | Arab-Israeli Conflict | 3 |
| Religion | | |
| RLGN 1120 | Biblical Hebrew | 6 |
| RLGN 1390 | Readings in Biblical Hebrew 1 | 3 |
| RLGN 1400 | Readings in Biblical Hebrew 2 | 3 |
| RLGN 2140 | Introduction to Judaism | 3 |
| RLGN 2160 | Hebrew Bible (Tanakh/"Old Testament") | 3 |
| RLGN 2760 | Rabbinic Judaism | 3 |
| RLGN 2770 | Contemporary Judaism | 3 |
| RLGN 3280 | Hasidism | 3 |
| RLGN 3400 | Zionism: Religious Perspectives | 3 |
| RLGN 3800 | Selected Old Testament Literature and Themes | 6 |
| RLGN 3810 | The Talmud | 3 |
| RLGN 3824 | Kabbalah | 3 |
| RLGN 3830 | The Bible as Story | 3 |
| RLGN 4300 | Advanced Topics in Judaism | 3 |

8.17.3 Judaic Studies Course Descriptions-Arabic**ARA 1000 Elementary Arabic Cr. Hrs. 6**

(Lab required) An introductory course in written and oral Arabic, for students with little or no previous knowledge of the language. Language laboratory exercises will be included in addition to class time. Students may not hold credit for ARA 1000 and any of: the former ARA 2260 or the former SEM 2260. Not open to students who have previously obtained credit in ARA 2000. Prerequisite: written consent of instructor.

ARA 2000 Intermediate Arabic Cr. Hrs. 6

Description (Lab required) This intermediate class will improve writing, reading, conversation and listening comprehension for everyday Arabic, and cover many of the important grammatical features of the language. By the end of this course, the learner should be able to communicate in many situations with fluency or near fluency. Prerequisite: [a grade of "C" or better in ARA 1000 or the former ARA 2260 or the former SEM 2260] or written consent of instructor.

ARA 3000 Advanced Arabic Cr. Hrs. 6

Students who have already mastered beginning and intermediate vocabulary and grammar will learn to use the language in a broader cultural context, developing their skills in reading and writing Arabic. The course utilizes communication-based activities and interactive learning techniques. Prerequisite: [a grade of "C" or better in ARA 2000] or written consent of instructor.

8.17.3 Judaic Studies Course Descriptions-Hebrew**HEB 1120 Biblical Hebrew (A) Cr. Hrs. 6**

(Formerly SEM 1120) An introductory course with emphasis on basic grammar and syntax. Students will learn to read simple biblical narratives. Students may not hold credit for HEB 1120 and any of: RLGN 1120 or the former SEM 1120.

HEB 1250 Hebrew 1 Cr. Hrs. 6

(Formerly SEM 1250) For students with a minimal experience with the language yet with a basic ability to read it. Following current methods in the teaching of a second/ foreign language, the listening-comprehension, speaking, reading and writing skills are developed. Language lab and organized conversation are part of the course. Intended for students with a strictly elementary standing. Students may not hold credit for both HEB 1250 and the former SEM 1250. Prerequisite: written consent of program coordinator.

HEB 1260 Hebrew 2 Cr. Hrs. 6

(Formerly SEM 1260) For students who have taken HEB 1250 or the former SEM 1250 or the equivalent. Spoken and written Hebrew - vocabulary and grammar, organized conversation and reading of selected texts. In addition to regular sessions, either one hour of lab or directed conversation per week is required. Students may not hold credit for both HEB 1260 and the former SEM 1260. Prerequisite: written consent of program coordinator.

HEB 2210 Modern Hebrew Literature Cr. Hrs. 6

(Formerly SEM 2210) Uri Zvi Greenberg, Lamdan, Sholonsky, Agnon, Burla, Hazzaz, Yizhar, Shamir Amihay, S. Shalom - poetry and prose. The modern Isreal short story. Students may not hold credit for both HEB 2210 and the former SEM 2210. Prerequisite: written consent of program coordinator.

HEB 2250 Rabbinic Hebrew Cr. Hrs. 6

(Formerly SEM 2250) Study of the style, vocabulary, grammar, and syntax of halakhic and aggadic rabbinic texts. A representative selection of Talmud, Midrashim Codes, and Responsa will be drawn from both the medieval and modern periods. Students may not hold credit for both HEB 2250 and the former SEM 2250. Prerequisite: written consent of program coordinator.

HEB 2280 Introduction to Hebrew Literature Cr. Hrs. 6

(Formerly SEM 2280) A study of the history and forms of Hebrew Literature from biblical to modern times. Students may not hold credit for both HEB 2280 and the former SEM 2280 (055.228). Prerequisite: [a grade of "C" or better in HEB 1260 or the former SEM 1260] or written consent of program coordinator.

HEB 2350 Hebrew 3 Cr. Hrs. 6

(Formerly SEM 2350) For students who have taken HEB 1260 or the former SEM 1260 or the equivalent. Further oral practise, vocabulary expansion and grammar review, and development of reading and writing skills. Students may not hold credit for both HEB 2350 and the former SEM 2350. Prerequisite: written consent of program coordinator.

HEB 3360 Hebrew Communication Arts Cr. Hrs. 6

(Formerly SEM 3360) A study of all aspects of Hebrew communication. For advanced students with reasonable fluency in the language. The writing skill on general subjects will be developed as well as comprehension and vocabulary expansion in the reading of more technical texts. Students may not hold credit for both HEB 3360 and the former SEM 3360. Prerequisite: written consent of program coordinator.

HEB 3370 Hebrew Language and Literature Cr. Hrs. 6

(Formerly SEM 3370) A study of the structure and usage of modern Hebrew, examination of selections of Major modern writers and development of speaking and writing skills. Review of the history of Hebrew and the application of linguistics to the understanding of the language. Students may not hold credit for both HEB 3370 and the former SEM 3370. Prerequisite: written consent of program coordinator.

HEB 3380 The Creation of Modern Hebrew Cr. Hrs. 6

(Formerly SEM 3380) An advanced study of the revival of Hebrew as a spoken language. Other attempts at language planning and revival will be observed. Lectures and discussions will be in Hebrew. Students may not hold credit for both HEB 3380 and the former SEM 3380. Prerequisite: written consent of program coordinator.

8.17.3 Judaic Studies Course Descriptions-Judaic Civilization**JUD 2340 Contemporary Israel Cr. Hrs. 3**

A study of the history and development of modern Israel. Topics discussed include the economic, social, cultural and religious structures of the contemporary Jewish state. Attention will also be focused on the status of Israeli minorities such as Moslems and Christians.

JUD 2370 Jewish-Gentile Relations Cr. Hrs. 3

A socio-historical study of the cultural, religious, and intellectual interaction between Jewish and non-Jewish cultures, e.g., the relationship of Judaism with other cultures of the ancient Near East and Hellenism, with medieval and modern Christendom and Islam, and with modern/contemporary secularism.

JUD 2650 Field Studies in Biblical Lands Cr. Hrs. 6

Offered as a Travel/Study course, the course consists of an on-campus orientation session followed by a period of travel while visiting and studying at some major sites and points of interest. Prerequisite: written consent of instructor.

JUD 3010 Topics in Jewish Studies Cr. Hrs. 3

Description An opportunity for the study of selected topics or themes in Jewish Studies. Consult the Judaic Studies program office or website for details. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.17.3 Judaic Studies Course Descriptions-Yiddish

YDSH 1220 Yiddish Cr. Hrs. 6

This course is intended for those who have little or no experience with the Yiddish language, and may not normally be taken by students who have attended a Yiddish day school. Emphasis on conversational Yiddish and reading comprehension. Prerequisite: written consent of program coordinator.

YDSH 2320 Yiddish Literature and Language Cr. Hrs. 6

Survey of Yiddish literature; review of Yiddish language skills. This course is intended for graduates of Yiddish day schools, those who have completed YDSH 1220 or equivalent, and students with other previous training in Yiddish. Prerequisite: [a grade of "C" or better in YDSH 1220] or written consent of program coordinator.

8.18 Labour Studies Program

Program Coordinator: David Camfield
 Program Office: 218 Isbister
 Telephone: 204 474 8356
 E-mail: labour_studies@umanitoba.ca
 Website: umanitoba.ca/labour_studies

8.18.1 Program Information

This interdisciplinary program examines the social, economic and political realities of work. Social justice and fundamental rights, the way work is organized, the dynamics of power in the workplace and the political economy of labour are examined critically. We explore the past, present and future of the labour movement and the wide-ranging effects of globalization on our daily lives. Using theoretical and practical approaches, we examine the forces that shape working people's lives and our responses to them.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both LABR 1260 and LABR 1290. For students who have taken additional courses toward the Major, a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Advanced Major Co-operative Education Option

Students interested in alternating employment terms and academic terms as part of the Advanced Major program in Labour Studies may apply to

enter the Co-operative Education option upon completion of their second year in the program (min. 48 credit hours complete). The course and grade requirements for entry to this option are the same as those required for entry to the regular four-year Advanced Degree program, as indicated in the chart below. Students should refer to the general faculty regulations for Cooperative Options.

Minor (Concentration) Program

For entry to the Minor, the prerequisite is a grade of "C" or better in both LABR 1260 and LABR 1290.

All Programs

Courses used towards a Labour Studies Major or Minor (Concentration) may not be used towards a Major/Minor (Concentration) or Honours in the second field.

8.18.2 Labour Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| LABR 1260 and LABR 1290 | <ul style="list-style-type: none"> LABR 2100, LABR 2300 6 credit hours of LABR courses at the 2000 or 3000 level 6 credit hours of LABR courses at the 3000 level 6 credit hours from LABR courses and/or the list of electives below | | |
| SINGLE ADVANCED MAJOR (incl. Co-operative option if selected) TOTAL: 48 CREDIT HOURS¹ | | | |
| LABR 1260 and LABR 1290 | <ul style="list-style-type: none"> LABR 2100 LABR 2300 | <ul style="list-style-type: none"> 6 credit hours of LABR courses at the 3000 level | |
| | | If the Co-operative Education Option is selected: • ARTS 3010(1), ARTS 3020(1), ARTS 3030(1) | |
| | <ul style="list-style-type: none"> 12 credit hours of LABR courses at the 2000, 3000, or 4000 level 18 credit hours from LABR courses and/or the list of electives below | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| LABR 1260 and LABR 1290 | <ul style="list-style-type: none"> LABR 2100, LABR 2300 6 credit hours of LABR courses at the 2000 or 3000 level | | |

Notes:

- If the Co-operative Education option is selected, students will be required to complete 51 credit hours of required courses (incl. Co-op) for the Advanced Major program (each Co-op work term is 1 credit hour).

List of Electives

The following courses may be selected to fulfill the requirements for a degree in Labour Studies (see the table above for details). Other courses might be chosen for this purpose, in accordance with students' individual interests, but require advance permission from the Labour Studies coordinator. Students are responsible for ensuring that all prerequisites have been met.

| Faculty of Arts | | |
|------------------------|--|---|
| Anthropology | | |
| ANTH 2510 | Anthropology of Economic Systems | 3 |
| ANTH 3750 | Anthropological Perspectives on Globalization and the World-System | 3 |
| Economics | | |
| ECON 2350 | Community Economic Development | 3 |

| | | |
|--|--|---|
| ECON 2362 | Economics of Gender | 3 |
| ECON 2540 | Political Economy 1: Production and Distribution | 3 |
| ECON 2550 | Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment | 3 |
| ECON 3362 | Labour Economics 1 | 3 |
| ECON 3364 | Labour Economics 2 | 3 |
| History | | |
| HIST 2282 | Inventing Canada (C) | 3 |
| HIST 2286 | History of Social Movements in Canada (C) | 3 |
| HIST 2288 | Modern Canada (C) | 3 |
| HIST 2400 | History of Human Rights and Social Justice in the Modern World (G,M) | 3 |
| HIST 2670 | History of Capitalism (M) | 3 |
| HIST 2671 | Histoire du capitalisme (M) (USB) | 3 |
| HIST 2680 | A History of Socialism from the French Revolution to the Present (M) | 3 |
| HIST 2732 | Modern World History, 1945-1992: The Age of Three Worlds | 3 |
| HIST 2734 | Modern World History, 1980- Present: New World Order? | 3 |
| HIST 2971 | Le Canada moderne: de 1921 à nos jours (C) (USB) | 6 |
| HIST 3050 | Canada since 1945 (C) | 6 |
| HIST 3052 | Canada since the 1960s | 3 |
| HIST 3054 | Canada and the United States | 3 |
| HIST 3210 | The History of Popular Radicalism in the Twentieth Century (M) | 6 |
| HIST 3212 | Global Sweatshops, Global Struggles (M) | 3 |
| HIST 3572 | The History of Women, Gender, and Sexuality in Canada (C) | 6 |
| HIST 3730 | A History of Western Canada (C) | 6 |
| HIST 3800 | History of Winnipeg from 1870-2000 (C) | 3 |
| HIST 4890 | Canadian Social History | 6 |
| Native Studies | | |
| NATV 3170 | Indigenous Peoples and Racism in Canada | 3 |
| Philosophy | | |
| PHIL 2290 | Ethics and Society | 6 |
| PHIL 2830 | Business Ethics | 3 |
| Political Studies | | |
| POLS 3470 | Canadian Public Management | 3 |
| POLS 3810 | Introduction to Marxism | 3 |
| POLS 4370 | Canadian Public Policy | 3 |
| POLS 4370 | Comparative Public Administration | 6 |
| Sociology | | |
| SOC 2290 | Introduction to Research Methods | 6 |
| SOC 3371 | Sociologie du travail (USB) | 3 |
| SOC 3380 | Power, Politics and the Welfare State | 3 |
| SOC 3471 | Sociologie politique (USB) | 3 |
| SOC 3820 | Qualitative and Historical Methods in Sociology | 3 |
| SOC 3871 | Inégalités sociales (USB) | 3 |
| SOC 3890 | Power and Inequality in Comparative Perspective | 3 |
| Women's and Gender Studies | | |
| WOMN 2500 | Race, Class and Sexuality | 3 |
| WOMN 3100 | Sex Work in Contemporary Canadian Culture | 3 |
| WOMN 3550 | Feminist Community Organizing: Theories and Practices | 3 |
| I.H. Asper School of Business (Faculty of Management) | | |
| Business Administration | | |
| GMGT 2060 | Management and Organizational Theory | 3 |
| GMGT 2070 | Introduction to Organizational Behaviour | 3 |
| GMGT 3030 | Contemporary Social Issues in Business | 3 |

| | | |
|-----------|--|---|
| GMGT 4210 | Seminar in Management and Capitalism | 3 |
| HRIR 2440 | Human Resource Management | 3 |
| HRIR 3430 | Selected Topics in Industrial Relations | 3 |
| HRIR 3450 | Labour and Employment Relations | 3 |
| HRIR 4420 | Compensation | 3 |
| HRIR 4480 | Collective Bargaining and Administration | 3 |
| HRIR 4520 | Comparative Industrial Relations and Human Resource Management | 3 |

For course descriptions, see departmental listings.

8.18.3 Labour Studies Course Descriptions-1000 Level

LABR 1260 Working for a Living

Cr. Hrs. 3

An introduction to the study of working lives in the contemporary world and the global transformation that has made working for wages central to human existence. Students may not hold credit for both LABR 1260 and the former LABR 1270.

LABR 1290 Introduction to the Canadian Labour Movement

Cr. Hrs. 3

An introduction to the development of the contemporary working-class movement in Canada and to workplace issues today.

8.18.3 Labour Studies Course Descriptions-2000 Level

LABR 2100 The Political Economy of Labour

Cr. Hrs. 3

This course examines the dynamics of work organization, the production and reproduction of labour power, labour markets and class conflict in capitalist societies, with attention to contemporary Canada. Students may not hold credit for LABR 2100 and any of: the former LABR 2420 or the former ECON 2420. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 2110 Special Topics in Labour Studies

Cr. Hrs. 3

This course will vary from term to term depending on the needs of students and the interests of the instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LABR 2200 Labour History: Canada and Beyond (C)

Cr. Hrs. 3

This course explores the history of working people's struggles, victories and defeats in Canada, with attention to gender, "race" and ethnicity. Topics include the origins and evolution of labour unions and workplace rights and the role of politics and social movements. Also offered as HIST 2200. May not be held with HIST 2200.

LABR 2300 Workers, Employers and the State

Cr. Hrs. 3

This course examines the social, economic and political contexts of work and the relations, rules and structures that shape the interactions between workers, employers and the state. Topics include workers' and management rights, the rights, obligations and functions of unions, the legal contexts of labour/management relations, and initiatives for increasing equity. Students may not hold credit for both LABR 2300 and the former LABR 3300. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

8.18.3 Labour Studies Course Descriptions-3000 Level

LABR 3010 Labour Law

Cr. Hrs. 3

An introduction to legislation and interpretation, legal procedures, and quasi-judicial boards as they concern the organization of trade unions, collective bargaining, settlement of disputes, labour standards, workers' compensation, unemployment insurance and human rights. Prerequisite: [a grade of "C" or better in both LABR 1260 (the former LABR 1270) and LABR 1290] or [a grade of "C" or better in both HRIR 3450 and 6 credit hours of other HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3030 Labour and the Bargaining Process Cr. Hrs. 3

A course to explain labour's involvement in the negotiation process including the mechanics and the theoretical issues of bargaining. The course focuses on contemporary issues. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3050 Issues in Occupational Health and Safety and Workers' Compensation Cr. Hrs. 3

This course will explore historical, legal and political issues surrounding health and safety in Canadian workplaces with an emphasis on Manitoba. It will critically examine both the Workers' Compensation and the Workplace Health and Safety systems as they currently exist and review the role of workers, employers, unions and government in these processes. It will investigate various challenges and emerging issues in health and safety including but not limited to industrial disease, gender concerns, precarious employment and globalization. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or [a grade of "C" or better in both HRIR 3450 and an additional 6 credit hours of HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3060 Workplace Health and Safety Cr. Hrs. 3

An introduction to occupational health, industrial hygiene and industrial safety emphasizing the impact of chemical hazards on the body, the measure and control of hazards and the causes and prevention of industrial accidents. Prerequisite: [a grade of "C" or better in both LABR 1260 (the former LABR 1270) and LABR 1290] or [a grade of "C" or better in both HRIR 3450 and 6 credit hours of other HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3070 Labour Relations and Occupational Health and Safety Law Cr. Hrs. 3

The economic costs of workplace injuries and sickness; the history of occupational health and safety laws and their implementation; the history and functions of workers' compensation; collective bargaining on health and safety. Prerequisite: [a grade of "C" or better in both LABR 1260 (the former LABR 1270) and LABR 1290] or [a grade of "C" or better in both HRIR 3450 and 6 credit hours of other HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3080 Labour and Community Organizing Cr. Hrs. 3

This course examines the theory and practice of collaborative community and labour organizing, with particular emphasis on Latin America, to identify the strengths and limitations of this approach for reviving unions, protecting workers' rights and advancing social justice. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3090 Globalization and Labour Cr. Hrs. 3

An examination of the impact of global capitalism on the lives of workers (both paid and unpaid) in the Global South and North in the early 21st century. Using concepts of class, gender and "race," the course addresses key challenges facing working people, the crisis of workers' movements,

and new movements emerging in response to this crisis. Prerequisite: written consent of instructor.

LABR 3110 Special Studies in Labour Studies Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests of the instructor. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LABR 3120 Special Studies in Labour Studies Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests of the instructor. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LABR 3130 Employment Legislation and the Protection of Workers Cr. Hrs. 3

An examination of the legal rights and obligations of workers and employers, and the enforcement mechanisms for the non-unionized workplace, over the course of the employment relationship from hiring through to termination or retirement. Special emphasis will be placed on statutory and common law, personal employment contracts, wrongful and constructive dismissal, human rights legislation and jurisprudence. Prerequisite: [a grade of "C" or better in both LABR 1260 (the former LABR 1270) and LABR 1290] or [a grade of "C" or better in both HRIR 3450 and 6 credit hours of other HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3140 Pensions and Benefits Cr. Hrs. 3

The nature and role of pensions in the life cycle of workers and the issue of pension funds control on distribution. The role of non-wage benefits in the labour compensation package. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or [a grade of "C" or better in both HRIR 3450 and six credit hours of other HRIR courses] or written consent of the Labour Studies coordinator.

LABR 3200 Workers' Self-Management Cr. Hrs. 3

An examination of historical and contemporary examples of self-managed workplaces and the theory of a participatory economy based on workers' self-management. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Labour Studies] or written consent the Labour Studies coordinator.

LABR 3210 Working People in Hard Times Cr. Hrs. 3

What have recent changes in work and society meant for people who work for wages or who live with those who do? How did these changes happen? What do they mean for youth today? How do the growing demands of our jobs affect our lives with family and friends? How have employers' actions affected unions, and how have unions responded? This course will explore these questions and others that arise from them. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3214 Canada's Left: Rebellion and Repression (C) Cr. Hrs. 3

This course traces the emergence and evolution of Canada's left from the late nineteenth century to the present, with an emphasis on its two main streams, communism and social democracy. Topics include the relationship between popular, party, labour, and ethnic lefts; left parties and

mainstream politics; the left in the evolution of human rights and in other public policies; the treatment within various lefts of gender, race, sexuality and ethnicity; popular movements; legal constraints and state repression. Also offered as HIST 3214. Not to be held with HIST 3214. Prerequisite: [a grade of "C" or better in six credit hours of History or written consent of department head] or [a grade of "C" or better in three credit hours of 1000 level Labour Studies or written consent of Labour Studies coordinator].

LABR 3220 Global Sweatshops, Global Struggles Cr. Hrs. 3

This course explores the past and present of sweated work in various industries in the Global North and South. We explore circumstances that support sweatshops, including off-shoring and the new international division of labour, migrant, child and female labour forces; global supply chains and the role of retailers and contractors. We also compare and evaluate strategies to eliminate sweatshops, including NGO activities, government regulations, consumer boycotts and the international labour, student and social justice movements. Also offered as HIST 3212. Students may not hold credit for both LABR 3220 and HIST 3212. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies or written consent of the Labour Studies coordinator] or [a grade of "C" or better in six credit hours of History or written consent of the department head].

LABR 3230 Human Rights at Work Cr. Hrs. 3

This course is an introduction to the basic human rights protections in Canadian workplaces that have developed as a result of collective bargaining, human rights legislation, The Charter of Rights and Freedoms and decisions of courts and tribunals. The course will also examine the concept of human rights on a broader, international and national level. Students may not hold credit for both LABR 3230 and LABR 3110 when titled "Human Rights at Work." Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3240 Becoming an Advocate Cr. Hrs. 3

This course introduces students to concepts and structures pertaining to workers' advocacy and administrative law, including areas such as human rights, occupational health and safety, Workers' Compensation, and the duty of fair representation. Students may not hold credit for LABR 3240 and any of LABR 3110 or LABR 3120 when titled "Becoming an Advocate." Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3400 Racism and Work Cr. Hrs. 3

This course explores three central questions: What are racism and colonialism? How do racism and colonialism shape work in Canada? What strategies exist for combating racism at work, and which are most effective? Students may not hold credit for both LABR 3400 and LABR 3110 when titled "Racism and Work." Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

LABR 3510 Industrial Relations Cr. Hrs. 6

A study of comparative employer-employee relationships in Canada and other selected countries as affected by market forces, social traditions, and government action. Students may not hold credit for both LABR 3510 and the former ECON 3510. Prerequisite: [a grade of "C" or better in both LABR 1260 (the former LABR 1270) and LABR 1290] or [a grade of "C" or better in six credit hours of 1000 level Economics].

LABR 3700 History of Working People and Labour Movements 1700 to the Present (M) Cr. Hrs. 6

A survey of working class history with emphasis upon the varieties of labour movements and trade unions. The course will refer to the social and political experience of working people in Great Britain, Europe and the United States and will devote one term to Canadian topics. Also offered as History HIST 3700. May not be held with HIST 3700. Prerequisite: [a grade of "C" or better in six credit hours of Labour Studies or History] or written consent of the Labour Studies coordinator.

8.18.3 Labour Studies Course Descriptions-4000 Level

LABR 4110 Selected Topics in Labour Studies Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests of the instructor. Prerequisite: written consent of the Labour Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LABR 4510 Labour Studies Field Placement Seminar Cr. Hrs. 3

A seminar to be taken concurrently with LABR 4520 in which each student will relate theory and practice. Co-requisite: LABR 4520. Prerequisite: formal declaration of the Labour Studies Advanced Major and written consent of the Labour Studies coordinator.

LABR 4520 Labour Studies Field Placement Cr. Hrs. 6

An educationally directed field experience in which the student will undertake specific tasks and assignments in some aspects of labour relations. Field placement options include a labour union, professional association, employer, provincial department of labour, public archives. Co-requisite: LABR 4510. Prerequisite: formal declaration of the Labour Studies Advanced Major and written consent of the Labour Studies coordinator.

8.19 Latin American Studies Program

Program Coordinator: Maria Inés Martínez
Program Office: 424 Fletcher Argue Building
Telephone: 204 474 9311
E-mail: Marines.Martinez@umanitoba.ca

8.19.1 Program Information

Through varied courses students may explore the cultural, political, historical, economic, and social structures and dynamics of Latin America. This interdisciplinary Minor includes courses from different departments and allows students to gain a deeper understanding of the subject field without being restricted to one discipline. Students are encouraged to participate in international exchange programs in Latin America which may also count toward the Minor.

A Minor (Concentration) in Latin American Studies consists of at least 18 credit hours from a minimum of two different departments chosen from the following list.

| Faculty of Arts | | |
|-----------------------------|--|---|
| Anthropology | | |
| ANTH 2690 | Peoples and Cultures of Contemporary Latin America | 3 |
| French, Spanish and Italian | | |
| SPAN 2200 | Spanish American Culture and Civilization | 3 |
| SPAN 2210 | Voices and Images of Latin America | 3 |
| SPAN 2570 | Special Studies (Acceptable for credit only when course content is on Latin American studies) ¹ | 3 |
| SPAN 3080 | Contemporary Latin American Novel | 3 |
| SPAN 3270 | Special Studies (Acceptable for credit only when course content is on Latin American studies) ¹ | 3 |
| SPAN 3300 | Cinema and Literature | 3 |
| SPAN 3320 | Testimony and Human Rights in Latin America | 3 |

| | | |
|--|---|---|
| SPAN 3780 | Short Fiction in Spanish | 3 |
| SPAN 3790 | Latin American Cinema and Society | 3 |
| History | | |
| HIST 2140 | Colonial Latin America (A) | 3 |
| HIST 2150 | Independent Latin America (A) | 3 |
| HIST 2900 | Topics in Social History (G) (Acceptable for credit only when course content is on Latin American studies) ¹ | 6 |
| HIST 3020 | South America Since 1945 (A) | 3 |
| HIST 3040 | Mexico, Central America, and Cuba Since 1945 (A) | 3 |
| HIST 3110 | Topics in History 1 (G) (Acceptable for credit only when course content is on Latin American studies) ¹ | 3 |
| HIST 3740 | Topics in Latin American History (A) | 3 |
| HIST 3750 | Indigenous Peoples in Modern Latin America (A) | 3 |
| HIST 4000 | Topics in History (G) (Acceptable for credit only when course content is on Latin American studies) ¹ | 3 |
| HIST 4150 | The Social History of the Latin American State (A) | 6 |
| HIST 4870 | Contemporary Latin America (A) | 6 |
| NOTE: ¹ Written consent of program coordinator required to use course in the Minor (Concentration). | | |

For entry to the Minor (Concentration) in Latin American Studies, the prerequisite is a grade of "C" or better in six credit hours from the approved list.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

For course descriptions, see departmental listings.

8.20 Department of Linguistics

Head: Jila Ghomeshi

Campus Address/General Office: 534 Fletcher Argue Building

Telephone: 204 474 9596

Email Address: lingdpt@cc.umanitoba.ca

Website: umanitoba.ca/linguistics

8.20.1 Program Information

The linguistics approach to language is based on the analysis of sound, the structure of words and sentences, and the meanings they transmit. But it also has to deal with the way sounds change, words come and go, and meanings shift. Linguistics is the humanities discipline that is closest to being a science in the generally accepted sense of the word. Partly because human language, the subject of linguistics, is almost entirely acquired subconsciously, it is a massive and intricate structure that is free to develop in accordance with natural rather than with consciously determined social laws.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in LING 1200 or written consent of the department head. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in LING 1200, or written consent of the department head.

Other

In addition to its core concentration in Linguistic Theory and Analysis and such other areas of study as Applied Linguistics, Verbal Arts, etc., Linguistics also offers:

A pre-professional concentration in Applied Linguistic Science, which will be of special interest to students planning a career in speech/language pathology; contact department general office for information; and

A program in American Sign Language/English Interpretation, offered jointly with Red River College; see below for details.

Students intending to Major in Linguistics are strongly encouraged to undertake the in-depth study of a second language.

8.20.2 Linguistics

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| LING 1200 ¹ | <ul style="list-style-type: none"> at least 9 credit hours chosen from the core courses² numbered at the 2000 level at least 6 credit hours chosen from the core courses² numbered at the 3000 level 9 additional credit hours of Linguistics (LING) | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| LING 1200 ¹ | <ul style="list-style-type: none"> at least 12 credit hours chosen from the core courses² numbered at the 2000 level LING 3200 or LING 3300 or LING 3400 LING 3120 or LING 3140 3 additional credit hours chosen from the core courses² numbered at the 3000 level 18 additional credit hours of Linguistics (LING) | | |
| DOUBLE ADVANCED MAJOR TOTAL: 42 CREDIT HOURS | | | |
| LING 1200 ¹ | <ul style="list-style-type: none"> at least 12 credit hours chosen from the core courses² numbered at the 2000 level LING 3200 or LING 3300 or LING 3400 LING 3120 or LING 3140 3 additional credit hours chosen from the core courses² numbered at the 3000 level 12 additional credit hours of Linguistics (LING) | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| LING 1200 ¹ | <ul style="list-style-type: none"> at least 6 credit hours chosen from the core courses² numbered at or above the 2000 level 6 additional credit hours of Linguistics (LING) | | |
| NOTES: | | | |
| ¹ Students are advised to take LING 1380 General Phonetics as early as possible in their program (ideally during their first year, in addition to LING 1200 Introduction to Linguistics) as this course is a prerequisite for many of the advanced courses. | | | |
| ² Not all of the core courses listed below will necessarily be offered every year; this includes even those at the 2000 level which are prerequisites for courses at the 3000 level. Students intending to Major in Linguistics are advised to plan their programs well in advance, and to consult the Linguistics department at the beginning of each academic year. | | | |

| Core Courses | Description | Credit Hours |
|--------------|--|--------------|
| LING 2200 | Syntax | 6 |
| LING 2420 | Phonology | 3 |
| LING 2440 | Analytic Techniques | 3 |
| LING 2460 | Morphology | 3 |
| LING 2640 | Comparative Linguistics | 3 |
| LING 3120 | Syntactic Theory | 3 |
| LING 3140 | Phonological Theory | 3 |
| LING 3200 | The Structure of a non-Indoeuropean Language | 6 |
| LING 3300 | The Structure of ASL | 6 |
| LING 3400 | Field Methods | 6 |
| LING 3820 | Selected Topics | 3 |
| LING 3840 | Special Topics in ASL | 3 |

Program in Linguistics and American Sign Language/English Interpretation taught jointly with Red River College leading to a B.A. General Degree

Students who wish to pursue this program must seek separate admission to both the University of Manitoba and Red River College.

Students must successfully complete all requirements for Deaf Studies and the American Sign Language/English Interpretation Program at Red River College only. Specific courses (42 credit hours) completed in this program will be considered acceptable for university degree credit, will satisfy a humanities requirement and will become the declared Minor for purposes of the degree. For the purposes of satisfying the distribution requirement, completion of the Deaf Studies Certificate will qualify as six hours in a field and completion of the Joint ASL Program will qualify as six hours in a field.

The entire joint program is described below:

Deaf Studies Program (prerequisite) - RRC

| Course No. | Description | Credit Hours |
|--|----------------------------|--------------------|
| DSP-D101 | American Sign Language 1 | |
| DSP-D201 | American Sign Language 2 | |
| DSP-D300 | American Sign Language 3 | |
| These 3 courses count as 6 credit hours | | |
| DSP-D100 | Deaf Culture | 3 |
| DSP-D202 | Deaf History | 3 |
| DSP-D301 | Cross-cultural Interaction | (no U of M credit) |
| | Total Hours | 12 |

Deaf Studies Program (prerequisite) - U of M

| | | |
|-----------|--|---|
| LING 1200 | Introduction to Linguistics | 6 |
| ANTH 1220 | Cultural Anthropology | 3 |
| | or | |
| ANTH 1520 | Critical Cultural Anthropology | 3 |
| | Science | 3 |
| | (In the Deaf Studies Certificate Program (RRC) and in Year 1 of the Joint Linguistics (U of M) and ASL (RRC) Program students must complete a 3 credit hour Science course for a total of 6 credit hours of Science. A minimum of 3 credit hours of the Science courses must be in mathematics, statistics, or physics. Students seeking a second degree are not required to complete a mathematics, statistics, or physics course.) | |

| | |
|-------------|----|
| Total Hours | 12 |
|-------------|----|

Following successful completion of this prerequisite year, a Certificate in Deaf Studies is awarded by Red River College and selection for continuation for the joint degree program is made by RRC and the Linguistics department.

Linguistics (U of M) and American Sign Language/English Interpretation (RRC)

| Year 1 RRC | | |
|--|---|--------------------|
| AEI-H320 | Cross-language Processing in Interpretation | 3 |
| AEI-H120 | Language Processing in Interpretation-English | 3 |
| AEI-H220 | Language Processing in Interpretation-ASL | 3 |
| AEI-H101 | English Comprehension and Expression | 3 |
| | Total Hours | 12 |
| Year 1 - U of M | | |
| LING 2200 | Syntax | 6 |
| LING 2460 | Morphology | 3 |
| LING 2740 | Interpretation Theory | 3 |
| ENGL XXXX | English | 6 |
| | Science | 3 |
| (In the Deaf Studies Certificate Program (RRC) and in Year 1 of the Joint Linguistics (U of M) and ASL (RRC) Program students must complete a 3 credit hour Science course for a total of 6 credit hours of Science. A minimum of 3 credit hours of the Science courses must be in mathematics, statistics, or physics. Students seeking a second degree are not required to complete a mathematics, statistics, or physics course.) | | |
| | Total Hours | 21 |
| Year 2 - RRC | | |
| AEI-A420 | Advanced ASL | 3 |
| AEI-P120 | Interpretation Lab 1 | 6 |
| AEI-H290 | Ethics 1 | 3 |
| AEI-H390 | Ethics 2 | 3 |
| AEI-H280 | Interpretation Settings 1 | (no U of M credit) |
| AEI-H380 | Interpretation Settings 2 | (no U of M credit) |
| | Total Hours | 15 |
| Year 2 - U of M | | |
| LING 3300 | The Structure of ASL | 6 |
| LING XXXX | Linguistics elective | 3 |
| | Total Hours | 9 |
| Year 3 - RRC | | |
| AEI-P220 | Interpretation Lab 2 | 3 |
| AEI-P500 | Practicum | (no U of M credit) |
| AEI-P454 | Practicum Seminar | (no U of M credit) |
| | Total Hours | 3 |
| Year 3 - U of M | | |
| LING 3840 | Special Topics in ASL | 3 |
| | UM Electives (non linguistics courses) (Before selecting the 6 credit hours of electives, contact the General Office to | 6 |

| | | |
|--|--|---|
| | ensure the selection satisfies the subject field requirement.) | |
| | Total Hours | 9 |

8.20.3 Linguistics Course Descriptions-1000 Level

LING 1340 Semantics Cr. Hrs. 3

An introduction to linguistic approaches to meaning, with special emphasis on the analysis of lexical domains.

LING 1380 General Phonetics Cr. Hrs. 3

The articulatory and acoustic analysis of speech sounds. Transcription exercises in a variety of languages.

LING 1620 Language and the Media Cr. Hrs. 3

The study of how language interacts with media. Investigation of the forms of language found in media discourse; how patterns in such language use contribute to recognizable media genres and styles; social themes and consequences that arise from media language.

LING 1200 Introduction to Linguistics Cr. Hrs. 6

Language as a communication system composed of sound, grammatical and semantic subsystems. Development of a theoretical framework. Exercises in a variety of languages.

LING 1420 Language and Gender Cr. Hrs. 3

In exploring the relationship between language and gender, this course addresses such questions as: how are gender differences manifested and perpetuated through language use?; is there such a thing as "women's language"?; how do gender differences influence communication between women and men?; how does gender interact with (for example) race, class and sexuality with respect to language use? In addition, we consider issues of language structure, including sexism in English and the relative success of gender-based language reform efforts.

LING 1360 Languages of Canada Cr. Hrs. 3

A survey of languages and linguistic problems encountered in North America, with particular attention to questions of relationship and classification. Examples will be drawn from both indigenous and immigrant languages.

LING 1440 Rules of English Grammar Cr. Hrs. 3

What are the criteria that are used to distinguish "good" from "bad" grammar? What are the rules we need to know in order to speak and write "properly"? In focusing on basic concepts in traditional grammar, this course reviews parts of speech, the English tense system, sentence types (active vs. passive), question formation and types of embedded clauses. It examines the rules of traditional grammar and explores the linguistic structures that lie behind the rules. This course is not intended for students learning English; it presupposes native or near-native competence in English. Not open to students who are currently enrolled in, or have previously obtained credit in LING 2200.

8.20.3 Linguistics Course Descriptions-2000 Level

LING 2200 Syntax Cr. Hrs. 6

Sentences are complex arrangements of words and other elements, and syntactic structures have long been at the centre of theoretical controversy. A typological survey of syntactic patterns, introducing formal and

functional approaches to syntactic analysis. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2202 Multilingualism Cr. Hrs. 3

Study of various aspects of multilingualism from a sociolinguistic perspective. The course will introduce concepts such as bilingualism, diglossia, pidgins and creoles, code-switching, language maintenance, language loss and language shift, language policy and planning, language revitalization, and linguistic landscape. Students will be expected to explore specific case studies, and collect and analyze original data. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2420 Phonology Cr. Hrs. 3

Each language relies on a finite set of distinctive sounds. Based on physical features which are universal, sound systems are language-specific, abstract structures. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2440 Analytic Techniques Cr. Hrs. 3

Techniques for recognizing the structure of words and sentences in a variety of languages. The formulation of linguistic rules, especially at the interface of morphology and phonology. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2460 Morphology Cr. Hrs. 3

The internal structure of words: the traditional distinction between inflection and derivation, types of word structures, word-formation rules, levels of word-formation. The relationship of morphology to phonology and syntax. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2600 Verbal Art Cr. Hrs. 3

Puns, punchlines, slogans and the chant of the auctioneer are as much instances of verbal art as are rhetorical flourishes and formal literary structures. With spoken language as its major focus, this course draws on a variety of languages, sources and genres to study artistic and playful uses of language. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2620 Language in Society Cr. Hrs. 3

Language is embedded in a social context: dialect variability, the choice of speech registers, the use of special-purpose languages, code-switching, sexual specialization are instances of language behaviour reflecting non-linguistic reality. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2640 Comparative Linguistics Cr. Hrs. 3

Language change and its consequences; aspects of historical linguistics, language classification and linguistic prehistory. Examples from Indoeuropean and North American Indian languages. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2720 Applied Linguistics Cr. Hrs. 3

The practical implications of linguistic analysis in such areas as the formal or informal acquisition of a second language, the establishment of standards for spoken and written usage, language maintenance and other aspects of language planning. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2740 Introduction to Interpretation Theory Cr. Hrs. 3

A survey of interpretation theory, including specifics of language use and problems in the transfer of cultural context for both source and target language, the history of language awareness on the part of the interpreter, and the development of theories of interpretation. This course will draw heavily on the field of ASL/English interpretation for illustration. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor

LING 2800 Communication Disorders **Cr. Hrs. 3**

A general introduction to the major pathologies of speech, language and hearing as viewed against the background of normal linguistic structures and functions. The distinction between mechanically- and neurologically-based disorders is illustrated in terms of aetiology, diagnosis and approaches to treatment. Prerequisite: [a grade of "C" or better in LING 1200] or written consent of instructor.

LING 2830 Linguistic Anatomy and Physiology 1 **Cr. Hrs. 3**

An intensive survey of the principal organs of speech and hearing, their embryology, and the general features of their evolutionary history. Some consideration will also be given to their pathological impairment. Prerequisite: [a grade of "C" or better in both LING 1200 and LING 1380] or written consent of instructor.

LING 2850 Linguistic Anatomy and Physiology 2 **Cr. Hrs. 3**

A survey of the structures of the central and peripheral nervous systems as they relate to the production and perception of speech and the processing of language. Includes a survey of linguistic aphasiology and a review of neurological deficits associated with abnormal language behaviour. Prerequisite: [a grade of "C" or better in both LING 1200 and LING 1380] or written consent of instructor.

LING 2880 Acoustic Phonetics **Cr. Hrs. 3**

The physical principles involved in the production, propagation and reception of sound. The subjective characteristics of sounds (loudness, pitch and quality) are related to their objective parameters (intensity, frequency and spectrum). The physical methods and the types of equipment used to analyze the basic physical properties of sounds will be demonstrated. Prerequisite: [a grade of "C" or better in both LING 1200 and LING 1380] or written consent of instructor.

8.20.3 Linguistics Course Descriptions-3000 Level

LING 3120 Syntactic Theory **Cr. Hrs. 3**

Formal and functional analyses of specific syntactic issues, such as the representation of grammatical relations, the formulation and explanation of universals, the "learnability criterion" as a test for theoretical adequacy and the rôle of semantics and pragmatics in syntactic theory. Prerequisite: [a grade of "C+" or better in LING 2200] or written consent of instructor.

LING 3140 Phonological Theory **Cr. Hrs. 3**

The nature of phonological representations: prosodic hierarchies, multi-tiered structures, the underspecification of segments. Types of phonological rules, rule ordering, the cycle. Prerequisite: [a grade of "C+" or better in LING 2420] or written consent of instructor.

LING 3200 The Structure of a non-Indoeuropean Language **Cr. Hrs. 6**

Every "new" language challenges accepted doctrine and helps us to evaluate competing hypotheses: in this course, a non-Indoeuropean language (which may vary from Hua to Hungarian) is systematically

explored on the basis of field records and descriptions which have become classics. Prerequisite: [a grade of "C+" or better in each of LING 2200 and LING 2420 and LING 2440] or written consent of instructor.

LING 3300 The Structure of ASL **Cr. Hrs. 6**

An examination of ASL as a signed, as opposed to spoken, language. Topics include phonetic, phonological, morphological and syntactic structures. Prerequisite: [a grade of "C+" or better in each of LING 1200 and LING 2200 and LING 2460] or written consent of instructor.

LING 3400 Field Methods **Cr. Hrs. 6**

Working with a speaker of an unfamiliar (and, usually, unrecorded) language, students are apprenticed in the collection, analysis and interpretation of raw data. Prerequisite: [a grade of "C+" or better in each of LING 2200 and LING 2420 and LING 2440] or written consent of instructor.

LING 3820 Special Topics **Cr. Hrs. 3**

Topics of current interest in the language sciences. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LING 3840 Special Topics in ASL **Cr. Hrs. 3**

Topics of current interest in ASL linguistics. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

LING 3860 Language Acquisition **Cr. Hrs. 3**

The study of first language acquisition from infancy through childhood. Aspects of phonology, morphology, pragmatics and syntax acquisition are discussed, as well as formal theories of acquisition, second language and bilingual acquisition, atypical development and the relationship of language acquisition with literacy. Also offered as PSYC 3860. Students may not hold credit for LING 3860 and any of: PSYC 3860 or the former LING 2860 or the former PSYC 2860. Prerequisite: [a grade of "C" or better in 9 credit hours of Linguistics courses] or [a grade of "C" or better in PSYC 2290 or PSYC 2291] or written consent of department head.

LING 3920 Special Studies **Cr. Hrs. 3**

Supervised study. Prerequisite: written consent of instructor. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.20.4 American Sign Language Course Descriptions

ASLL 1000 American Sign Language 1 **Cr. Hrs. 3**

(Lab required) Designed for students with little or no knowledge of ASL. Students learn basic ASL vocabulary and grammatical structures to facilitate conversational practice at the beginning level, including introducing oneself, asking basic questions about family, friends, and surroundings, and discussing day to day activities. Learning and practicing fingerspelling is included for English "loanwords". Aspects of Deaf culture and the Deaf community are introduced.

8.21 Medieval and Early Modern Studies Program

Program Advisor: Roisin Cossar
Program Office: 454 Fletcher Argue Building
Telephone: 204 474 8885

8.21.1 Program Information

The millennium from the end of the Roman empire to the Renaissance is the formative period of European civilization. The Middle Ages and the Dark Ages were periods of human drama full of change and growth and a struggle to regain a civilized way of life. The Age of Chivalry with its crusades, the flowering of the arts and architecture, and the emergence of new philosophical concepts and ideologies found culmination in the Renaissance. For those interested in the pre-modern world, this program permits a broad approach to the subject.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

The following entries contain information which is not contained in Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in HIST 2390 or HIST 2420, and 6 credit hours in Greek (GRK) or Latin (LATN) courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in HIST 2390 or HIST 2420.

Other

Students should note that courses used towards the Major(s) or Minor (Concentration) in this area may not be used for Major, Minor (Concentration) or Honours in a second field.

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL MAJOR ^{1,2} TOTAL: 30 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> 6 credit hours in Greek (GRK) or Latin (LATN) courses HIST 2390 or HIST 2420 | <ul style="list-style-type: none"> 6 credit hours from Group 1 courses listed below 6 credit hours from Group 2 courses listed below 6 credit hours from Group 1 or Group 2 courses listed below | | |
| SINGLE ADVANCED MAJOR ^{1,2} TOTAL: 48 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> 6 credit hours in Greek (GRK) or Latin (LATN) courses HIST 2390 or HIST 2420 | <ul style="list-style-type: none"> 6 credit hours from Group 1 courses listed below 6 credit hours from Group 2 courses listed below 9 credit hours from Group 1 or Group 2 courses listed below 9 additional credit hours in Greek (GRK) or Latin (LATN) courses 6 credit hours from a modern language (any language offered by the Faculty of Arts outside of courses offered in Greek and Latin) | | |
| MINOR (CONCENTRATION) ^{1,2} TOTAL: 18 CREDIT HOURS | | | |
| HIST 2390 or HIST 2420 | 12 credit hours to be selected from Group 1 or Group 2 courses below, Greek (GRK) courses ³ , or Latin (LATN) courses ³ | | |
| NOTES: | | | |
| ¹ Students may not use individual courses to satisfy both Major and Minor (Concentration) requirements. | | | |

² Students are strongly encouraged to complete introductory courses from subject areas from the Group 1 and Group 2 listings in order to satisfy possible prerequisites for courses they may select in Years 2, 3 and 4.

³ If Latin (LATN) or Greek (GRK) courses are selected to satisfy the Minor (Concentration) requirements, a minimum of 6 credit hours must be selected from either LATN or GRK.

Group 1: History, Philosophy and Religions

See the departmental Calendar section for full course descriptions. With written consent of the program coordinator courses not on this list may be used to satisfy the Group 1 requirement.

| Classics | | |
|-----------------|---|---|
| CLAS 1280 | Introduction to Ancient Roman Culture | 3 |
| CLAS 2170 | Roman History: The Roman Empire, 30 BC-AD 337 | 3 |
| CLAS 3270 | The World of Late Antiquity: History and Archaeology | 3 |
| History | | |
| HIST 2180 | The History of Catholicism to 1540 (G) | 3 |
| HIST 2930 | The History of the British Isles, 412-1485 (D) | 6 |
| HIST 3136 | History of Medieval Italy, 568-1300 (D) | 3 |
| HIST 3138 | History of Medieval Italy, 1300-1500 (D) | 3 |
| HIST 3140 | Medieval Italy (D) | 6 |
| HIST 3480 | The Margins of the Middle Ages (D) | 3 |
| HIST 3550 | Popular Culture, Crime and Punishment in England, 1550-1850 (E) | 3 |
| HIST 3880 | Europe in Transition: 1348-1648 (E) | 6 |
| HIST 4040 | The Later Middle Ages (D) | 6 |

| | | |
|-------------------|---|---|
| HIST 4050 | England in the Long Eighteenth Century (E) | 6 |
| Philosophy | | |
| PHIL 2780 | Thomas Aquinas | 3 |
| Religion | | |
| RLGN 2114 | Monks, Mystics and Manuscripts in Medieval Christianity | 3 |
| RLGN 2730 | Jews and Judaism in Antiquity | 3 |
| RLGN 2760 | Rabbinic Judaism | 3 |
| RLGN 2780 | Classical Islam | 3 |
| RLGN 3194 | Islamic Philosophy | 3 |
| RLGN 3230 | Gender, the Body, and Sexuality in Early Christianity | 3 |
| RLGN 3824 | Kabbalah | 3 |
| RLGN 4282 | Advanced Studies in Medieval Christianity | 3 |

Group 2: Literatures, Art and Languages

See the departmental Calendar section for full course descriptions. With written consent of the program coordinator courses not on this list may be used to satisfy the Group 2 requirement.

| | | |
|-----------------------------------|---|---|
| Faculty of Arts | | |
| Classics | | |
| LATN 2800 | Readings in Medieval or Renaissance Latin | 3 |
| English, Film, and Theatre | | |
| ENGL 2070 | Literature of the Sixteenth Century | 6 |
| ENGL 2080 | Medieval Literature | 6 |
| ENGL 3000 | Chaucer | 6 |
| ENGL 3010 | Shakespeare | 6 |
| ENGL 3020 | Milton | 6 |
| ENGL 3030 | Studies in Sixteenth-Century Literature | 3 |
| ENGL 3050 | Studies in Old English | 6 |
| ENGL 3080 | Studies in Medieval Literature | 3 |
| ENGL 3090 | Studies in Seventeenth-Century Literature | 3 |

| | | |
|------------------------------------|--|---|
| ENGL 3180 | Studies in Renaissance Literature | 3 |
| French, Spanish and Italian | | |
| FREN 3500 | Littérature du 17e siècle (B) | 3 |
| SPAN 3670 | Poetry and Novel of the Golden Age | 3 |
| SPAN 3680 | Drama of the Golden Age | 3 |
| Icelandic | | |
| ICEL 1410 | Introduction to Culture in Medieval Iceland | 3 |
| ICEL 2310 | An Introduction to Old Icelandic Language and Literature | 6 |
| ICEL 3320 | Old Norse Mythology | 3 |
| ICEL 3330 | Icelandic Sagas in Translation | 3 |
| ICEL 3400 | Old Icelandic Literature | 6 |
| ICEL 4420 | History of the Icelandic Language | 3 |
| School of Art | | |
| FAAH 1030 | Introduction to Art 1A | 3 |
| FAAH 2060 | Medieval to Early Renaissance Art and Architecture | 3 |
| FAAH 2070 | Renaissance to Baroque Art and Architecture | 3 |
| FAAH 3130 | Topics in Medieval Art and Architecture | 3 |
| FAAH 3140 | Topics in Renaissance and Baroque Art and Architecture | 3 |
| FAAH 3280 | Early Byzantine Art and Architecture | 3 |
| FAAH 3290 | Later Byzantine Art and Architecture | 3 |

8.22 Department of Native Studies

Head: Cary Miller

Campus Address/General Office: 204 Isbister Building

Telephone: 204 474 9266

Email Address: mailto:native_studies@umanitoba.ca

Website: umanitoba.ca/native_studies

8.22.1 Program Information

Courses in this department examine the history, art, literature, and the philosophical and religious traditions of Canada's original inhabitants. Other courses explore the legal, political, and health care systems in relation to Aboriginal people. Aboriginal and non-Aboriginal students may specialize in either Native studies or Native languages, Cree and Ojibway.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in NATV 1200 or "C" or better in both NATV 1220 and NATV 1240. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

A) Native Studies

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in one of NATV 1200 or "C" or better in both NATV 1220 and NATV 1240.

B) Indigenous Languages

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both NATV 1250 and NATV 1260; or "C" or better in both NATV 1270 and NATV 1280; or "C" or better in NATV 2250, or both NATV 2272 and NATV 2274 (the former NATV 2270).

Other

Students will be permitted to register for a Major in Native Studies and a Minor in Native Languages but may not complete both a Major and Minor in Native Studies.

Before registering for approved cross-listed courses, students should consult the Calendar or the departments regarding prerequisites for specific courses.

8.22.2 Native Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| NATIVE STUDIES GENERAL MAJOR (Option 1)² TOTAL: 30 CREDIT HOURS | | | |
| NATV 1200 (6) or NATV 1220 and NATV 1240 | 6 credit hours of Indigenous Language courses ¹ offered by Native Studies NATV 2530 9 credit hours of Native Studies at the 2000 level or above 6 credit hours in of Native Studies at the 3000 level or above | | |
| NATIVE STUDIES GENERAL MAJOR, Anishinaabemowin (Ojibwe) Language Focus (Option 2) TOTAL: 30 CREDIT HOURS | | | |
| NATV 1200 (6) or NATV 1220 and NATV 1240 | NATV 1270, NATV 1280, NATV 2272, NATV 2274, NATV 3222, NATV 3300, NATV 2530 3 credit hours of Native Studies at the 3000 level or above | | |
| NATIVE STUDIES GENERAL MAJOR, Cree Language Focus (Option 3) TOTAL: 30 CREDIT HOURS | | | |
| NATV 1200 (6) or NATV 1220 and NATV 1240 | NATV 1250, NATV 1260, NATV 2250 (6), NATV 3224, NATV 3300, NATV 2530 3 credit hours of Native Studies at the 3000 level or above | | |
| NATIVE STUDIES SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| NATV 1200 (6) or NATV 1220 and NATV 1240 | 12 credit hours in Native Studies numbered at the 2000 level or above ³ 6 credit hours of Indigenous Language courses ¹ offered by Native Studies NATV 2530 12 credit hours of Native Studies at the 3000 level or above. | | |

| | | | |
|--|---|--|--|
| NATIVE STUDIES MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| NATV 1200 (6) or NATV 1220 and NATV 1240 | 12 credit hours in courses offered by Native Studies numbered at the 2000 level or above ³ | | |
| INDIGENOUS LANGUAGES MINOR (CONCENTRATION)⁶ (OPTION 1) TOTAL: 18 CREDIT HOURS | | | |
| NATV 1250 and NATV 1260 or NATV 1270 and NATV 1280 | NATV 2250 (6), or both NATV 2272 and NATV 2274 | 6 credit hours in Indigenous Languages ¹ , or 6 credit hours of approved Native Studies ^{4,5} | |
| INDIGENOUS LANGUAGES MINOR (CONCENTRATION)⁶ (OPTION 2) TOTAL: 18 CREDIT HOURS | | | |
| NATV 2250, or both NATV 2272 and NATV 2274 | NATV 3222 or NATV 3224, NATV 3300 | 6 credit hours in Indigenous Languages ¹ or 6 credit hours of approved courses in Native Studies ^{4,5} | |
| NOTES: | | | |
| ¹ The following courses count as Indigenous Language courses: NATV 1250, NATV 1260, NATV 1270, NATV 1280, NATV 1290, NATV 2250, NATV 2272, NATV 2274, NATV 2300, NATV 2310, NATV 3222, NATV 3224, and NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses. | | | |
| ² Students may substitute up to 12 credit hours from the list of approved courses in lieu of Native Studies but must have six credit hours in Native Studies or Indigenous Languages courses offered by Native Studies numbered at the 3000 level or above. | | | |
| ³ Students may substitute up to six credit hours from the list of approved courses in lieu of Native Studies courses. | | | |
| ⁴ No more than 12 credit hours may be taken from NATV 1200, NATV 1220, NATV 1240, NATV 1250, NATV 1260, NATV 1270, NATV 1280, NATV 2250, NATV 2272, NATV 2274. | | | |
| ⁵ Six credit hours may be from related linguistics courses approved by the department. | | | |
| ⁶ Students who wish to declare a Major or a Minor should consult with the department head. | | | |

8.22.3 Native Studies Aboriginal Governance Stream

Students interested in pursuing an Single Advanced Major in Aboriginal Governance are required to take a Minor in Business. The requirements for both are set out below. For course descriptions, including any prerequisites and/ or restrictions see the appropriate departmental listing in this Calendar. The conditions for entry, continuation and graduation requirements may be found in Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Advanced Major, Aboriginal Governance Stream, the prerequisite is a grade of "C" or better in NATV 1200 or a "C" or better in both NATV 1220 and NATV 1240.

For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

Minor Program

For entry to the required Minor in Business for students who wish the Aboriginal Governance Stream, the prerequisite is 6 credit hours from ACC 1100, GMGT 2060, HRIR 2440 or MKT 2210 with a grade of "C" or better in each.

For information on this program contact the Department of Native Studies.

8.22.4 Native Studies Aboriginal Governance Stream

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--------|--------|
| NATIVE STUDIES SINGLE ADVANCED MAJOR - ABORIGINAL GOVERNANCE STREAM TOTAL: 51 CREDIT HOURS | | | |
| NATV 1200 or NATV 1220 and NATV 1240 | <ul style="list-style-type: none"> • ECON 1010 or ECON 1210 or ECON 1220 • NATV 2110, POLS 2702, POLS 2802, STAT 1000 • 12 credit hours from Political Governance courses: NATV 2220, NATV 3310, NATV 3280, NATV 3370, NATV 4200, POLS 4150 • 12 credit hours from Aboriginal Business and Economics courses: NATV 3120, NATV 3160, NATV 3350, NATV 4320 • 6 credit hours from Traditional Knowledge courses: NATV 2030, NATV 3330, NATV 4220, NATV 4230 | | |
| REQUIRED MINOR IN BUSINESS FOR THOSE STUDENTS IN A DECLARED ABORIGINAL GOVERNANCE STREAM¹ TOTAL: 18 CREDIT HOURS | | | |
| ACC 1100, GMGT 2060, HRIR 2440, MKT 2210 | 6 credit hours from: ACC 1110, ENTR 2010, ENTR 2020, GMGT 2010, GMGT 3300, LEAD 2010, FIN 2200, FIN 3470, HRIR 4410, MIS 2000 | | |
| NOTE: ¹ Students must ensure that all course prerequisites are met when selecting courses for the Minor. | | | |

List of Approved Courses in Native Studies

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Native Studies are given below

School of Art

| | | |
|-----------|--|---|
| FAAH 2090 | Art of the North American Aboriginal Peoples | 3 |
| FAAH 3430 | Inuit Art | 3 |

| History Department | | |
|--------------------|--|---|
| HIST 1390 | History of Colonial Canada | 3 |
| HIST 1440 | History of Canada | 6 |
| HIST 2280 | Aboriginal History of Canada | 6 |
| HIST 4010 | Imperialism, Decolonization, and Neo-Colonialism | 6 |
| HIST 4120 | History of Aboriginal Rights | 6 |

8.22.5 Native Studies Course Descriptions-1000 Level

NATV 1000 Orientation Course: The Colonizers and the Colonized Cr. Hrs. 3

The course which is offered as part of the summer session consists of an introduction to the colonization process as it regards Aboriginal people and

the processes of decolonization undertaken by the people since 1970. Prerequisite: this is a special course designed for first year entering Aboriginal students. Registration is restricted and written consent must be obtained from the instructor prior to registration.

NATV 1200 Indigenous Peoples in Canada Cr. Hrs. 6

A survey of the political, social, and economic situations of the contemporary First Nations, Métis, and Inuit Peoples of Canada. Students may not hold credit for both NATV 1200 and any of: NATV 1220 or NATV 1240.

NATV 1220 Indigenous Peoples in Canada, Part 1 Cr. Hrs. 3

A survey of the political, social, and economic situations of the contemporary First Nations, Métis, and Inuit Peoples of Canada from pre-contact to 1945. Students may not hold credit for both NATV 1220 and NATV 1200.

NATV 1240 Indigenous Peoples in Canada, Part 2 Cr. Hrs. 3

Description A survey of the political, social, and economic situations of the contemporary First Nations, Métis, and Inuit Peoples of Canada from 1945 to the present. This course may include a field trip component. Students may not hold credit for both NATV 1240 and NATV 1200.

NATV 1250 Introductory Cree 1 Cr. Hrs. 3

(Lab required) Practical course intended for students who are not fluent in Cree. Emphasis will be on oral work for the purpose of learning basic sounds and grammatical patterns. Some attention will be given to the structural differences between Cree and English. Regular attendance and active participation are obligatory. This course is a prerequisite for NATV 1260 Introductory Cree 2.

NATV 1260 Introductory Cree 2 Cr. Hrs. 3

(Lab required) Continuation of NATV 1250 Introductory Cree 1. Practical course intended for students who are not fluent in Cree. Emphasis will be on oral work for the purpose of learning basic sounds and grammatical patterns. Some attention will be given to the structural differences between Cree and English. Regular attendance and active participation are obligatory. Prerequisite: a grade of "C" or better in NATV 1250.

NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1 Cr. Hrs. 3

Practical course intended for students who are not fluent in Anishinaabe (Ojibwe). Emphasis will be on oral work for the purpose of learning basic sounds and grammatical patterns. Some attention will be given to the structural differences between Anishinaabemowin and English. Regular attendance and active participation are obligatory. This course is a prerequisite for NATV 1280 Introductory Anishinaabemowin 2.

NATV 1280 Introductory Anishinaabemowin (Ojibwe) 2 Cr. Hrs. 3

Continuation of NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1. Practical course intended for students who are not fluent in Anishinaabemowin. Emphasis will be on oral work for the purpose of learning basic sounds and grammatical patterns. Some attention will be given to the structural differences between Anishinaabemowin and English. Regular attendance and active participation are obligatory. Prerequisite: a grade of "C" or better in NATV 1270.

NATV 1290 Introductory Inuktitut Cr. Hrs. 3

A practical course in conversational Inuktitut focusing on basic grammatical structures, everyday vocabulary, and using syllabics. This course is offered as part of the Pangnirtung Summer Travel/Study Program. Prerequisite: written consent of department head.

NATV 1300 Selected Topics in Introductory Indigenous Language Cr. Hrs. 3

An introduction to an Indigenous language in Canada. Depending on the instructor, this course may have a field component. The content of this course may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.22.5 Native Studies Course Descriptions-2000 Level

NATV 2000 Selected Topics in Indigenous Studies Cr. Hrs. 3

The content of this course will vary. Depending on instructor, this course may have a field component. Contact the Department of Native Studies for details. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head. Students can earn multiple credits for this course only when the topic subtitle is different.

NATV 2012 Indigenous History in Canada Cr. Hrs. 6

A historical survey of Indigenous peoples in Canada from early times to the present. The course will cover pre-contact peoples, responses to the European arrival, military alliances, the fur trade, the Métis, treaties, government policies and Indigenous responses, and cultural resurgence and political organizing since 1945. Also offered as HIST 2010. May not be held for credit with HIST 2010 or the former HIST 2280.

NATV 2020 The Métis in Canada Cr. Hrs. 3

A history of the Métis of Canada. Also offered as HIST 2020. May not be held for credit with HIST 2020.

NATV 2030 Working with Indigenous Elders Cr. Hrs. 3

This course provides an opportunity for students to develop culturally relevant community service skills in Native Studies and to acquire an understanding of traditional teachings by Elders from the Cree and Anishinaabe (Ojibwe) traditions. The course includes participation in the annual Elders and Traditional Teachers Gathering conference. Students may not hold credit for both NATV 2030 and NATV 2000 when titled "Working with Elders." Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor or department head.

NATV 2040 The Dakota, Lakota, and Nakota Nations Cr. Hrs. 3

An interdisciplinary study of the history and traditional cultures of the Indigenous Peoples of the Northern Plains. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2060 Eastern Woodlands Encounters Columbus to Confederation Cr. Hrs. 3

An interdisciplinary study of the history and traditional cultures of the Indigenous peoples of the Great Lakes and Maritimes. Emphasis will be on the Anishinaabe (Ojibway, Saulteaux), Haudenosaunee (Iroquois Confederacy) and Maritime Algonquin Nations. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2070 Cree, Innu, and Dene Nations Cr. Hrs. 3

This course will examine the subsistence organization, social organization and cosmology of both the Cree and Dene. We will further examine the history of the aboriginal-European encounter and the impact of colonialism on contemporary political and land rights struggles. While we will consider the region as a whole, we will specifically focus on the James Bay Cree and Rock Cree of Northern Manitoba, and secondly on the Saisi Dene, north of the Churchill River. This course may include a field trip component. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2080 Inuit Society and Culture Cr. Hrs. 3

An examination of the subsistence organization, social organization, cosmology and ceremonies of Inuit from a regional and comparative perspective. While this course will focus on Eastern Arctic Inuit comparison will also be made to Greenlanders, Inuvialuit, Inupiat and Yup'ik. We will conclude the course by examining colonial history and the rise of Nunavut. The course may include a field trip component. Students may not hold credit for both NATV 2080 and NATV 2000 with the topic "Inuit Society and Culture." Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2100 Indigenous Spirituality Cr. Hrs. 3

This course allows students to work with Indigenous elders or traditional teachers, exposing them to cultural and spiritual concepts. Emphasis is on Anishinaabe or Cree teachings, though other First Nations approaches may be offered. This course may include a field trip component. Students may not hold credit for both NATV 2100 and NATV 3000 when titled "Aboriginal Wisdom and Spirituality."

NATV 2110 Introduction to Indigenous Community Development Cr. Hrs. 3

Community development is the main strategy available for achieving the level of governance that most Aboriginal communities seek. It involves a plan that captures the spirit of a community and stirs the imagination of the members. Obstacles include lack of time, resources, vision and understanding of what a community plan for development can accomplish. This course will examine community development within an Aboriginal context. Students may not hold credit for both NATV 2110 and NATV 2000 when titled "Introduction to Aboriginal Community Development." Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2220 Indigenous Societies and the Political Process Cr. Hrs. 3

An analysis of contemporary Canadian (and U.S.) political and administrative processes as they affect Indigenous people. Depending on instructor, this course may have a weekend field trip. Contact the Department of Native Studies for details.

NATV 2250 Intermediate Cree Cr. Hrs. 6

Continuation of introductory courses and entry-level course for fluent speakers. Development of conversational fluency. Cree orthography, composition and translation, introduction to the linguistic structure of Cree. Prerequisite: [a grade of "C" or better in both NATV 1250 and NATV 1260] or [Matriculation Cree] or written consent of instructor or department head.

NATV 2272 Intermediate Anishinaabemowin (Ojibwe) 1 Cr. Hrs. 3

This course is a continuation of Introductory Anishinaabemowin (Ojibwe) 1 and 2 and the entry-level course for fluent speakers. It focuses on development of conversational fluency, Anishinaabemowin orthography, composition and translation. Students may not hold credit for both NATV 2272 and the former NATV 2270. Prerequisite: [a grade of "C" or better in both NATV 1270 and NATV 1280] or [Matriculation Anishinaabemowin] or written consent of instructor or department head.

NATV 2274 Intermediate Anishinaabemowin (Ojibwe) 2 Cr. Hrs. 3

This course is a continuation of Intermediate Anishinaabemowin (Ojibwe) 1. It focuses on the further development of conversational fluency, Anishinaabemowin orthography, and translation and also offers an introduction to the linguistic structure of Anishinaabemowin. Students may not hold credit for both NATV 2274 and the former NATV 2270. Prerequisite: [a grade of "C" or better in NATV 2272] or written consent of instructor or department head.

NATV 2300 Cree Literature Cr. Hrs. 3

A survey of Cree literature based on the extensive study of particular texts in cultural, historical and spiritual contexts. Prerequisite: [a grade of "C" or better in NATV 2250 or NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2310 Anishinaabe (Ojibwe) Literature Cr. Hrs. 3

A survey of Anishinaabemowin (Eastern, Western, Chippewa, Saulteaux, Odawa, others) literature based on the extensive study of particular texts in cultural, historical and spiritual contexts. Prerequisite: [a grade of "C" or better in both NATV 2272 and NATV 2274] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or [a grade of "C" or better in NA TV 1200 or the former NA TV 2270] or written consent of department head.

NATV 2410 Indigenous Literature in Canada Cr. Hrs. 3

A study of literature by and about Indigenous Peoples in Canada, Indigenous oral tradition, personal narratives, protest literature, poetry, plays and novels will be explored to give an appreciation of Indigenous philosophies, experiences, traditions and cultures. Prerequisite: [a grade of "C" or better in NA TV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of department head.

NATV 2420 Inuit Literature in Translation Cr. Hrs. 3

An examination of various literary forms produced by Inuit including oral tradition and songs, life histories, contemporary novels and modern political writings. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of instructor or department head.

NATV 2430 Indigenous Women's Stories Cr. Hrs. 3

This course will investigate through the medium of literature - life writing, fiction, creative non-fiction, poetry - and film experiences of Indigenous women in North America, particularly in Canada, as articulated in their own voices. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor or department head.

NATV 2450 Images of the "Indian" in North American Society Cr. Hrs. 3

Will trace the portrayal of Indigenous peoples 1492 to the present. Emphasis will be on material and theoretical depictions, and will require reading as well as study of art pieces, tourist objects, cartoons, movies and so forth. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 2510 Indigenous Experience in the U.S. to 1860 Cr. Hrs. 3

This course is a survey of the Indigenous experience in the U.S. from contact to 1860. The participation of Native nations in the political and military conflicts leading to American Independence will be highlighted as well as the development of Federal Indian Policy as the United States struggled to create its own identity.

NATV 2520 Indigenous Experience in the U.S. 1860-Present Cr. Hrs. 3

This course will examine the historical experience of the Native Peoples of North America with respect to their cultures and the policies developed in the United States to force detribalization and assimilation from 1860 to the present.

NATV 2530 Introduction to Indigenous Theory Cr. Hrs. 3

This course, will address the ways that Indigenous worldviews constitute theoretical approaches and alternative methodologies to address issues of Indigenous history, politics, and literature, and how they relate to notions of Indigenous self-determination, feminism(s), cultural production, gender,

as demonstrated in scholarly and theoretical texts, film, personal narratives, and fiction. Pre- or corequisite: NATV 1200 or [NATV 1220 and NATV 1240]

8.22.5 Native Studies Course Descriptions-3000 Level**NATV 3000 Selected Topics Cr. Hrs. 3**

The content of this course will vary. Contact the department for a course description. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

NATV 3100 Indigenous Healing Ways Cr. Hrs. 3

This course allows students to work with Indigenous elders or traditional teachers on concepts of healing and wellness. Emphasis is on Anishinaabe or Cree healing practices, though other First Nations approaches may be offered. This course may include a field trip component. Students may not hold credit for both NATV 3100 and NATV 3000 when titled "Exploring Aboriginal Healing." Prerequisite: [a grade of "C" or better in NATV 2100] or written consent of the department head.

NATV 3120 Exploring Indigenous Economic Perspectives Cr. Hrs. 3

Explore the impact of legal, constitutional and governance issues on the internal and external operating environment affecting Indigenous economic development. Current strategies for successful partnerships between industry and Indigenous peoples will also be examined. Students may not hold credit for NATV 3120 and any of: ECON 2350 or the former IDM 3000 or the former NATV 4310. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of instructor or department head.

NATV 3130 International Indigenous Literatures Cr. Hrs. 3

This course will compare selected texts by Indigenous authors from Canada, U.S.A., New Zealand and Australia. Following the history of the respective literature in each country, it will examine the role of Indigenous writing – poetry, fiction, plays – in de/colonization processes in settler societies. Prerequisite: [a grade of "C" or better in NATV 2410] or written consent of instructor or department head.

NATV 3140 Indigenous Resistance Literature Cr. Hrs. 3

This course will trace and explore the history and practice of Indigenous resistance writing in Canada. Attention will be given to political and creative writing in contrapuntal response to the Canadian colonial situation. Classes will be based largely on seminar discussions and readings. Prerequisite: [a grade of "C" or better in NATV 2410] or written consent of instructor or department head.

NATV 3150 Residential School Literature Cr. Hrs. 3

This course focuses on the analysis of literary responses to Residential Schools in the form of memoirs, fiction, poetry, and plays; it will also include aesthetic representations of school experiences through other media like film and art. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor or department head.

NATV 3160 Fundraising for Indigenous Organizations Cr. Hrs. 3

This course examines effective fundraising skills as critical for the longevity of many programs in the Indigenous community. While government fundraising is an important source, understanding grantsmanship and other funding strategies are critical for sustained program existence and effective use of scarce human and financial resources. Students may not hold credit for both NATV 3160 and NATV 3000 when titled "Financing Strategies for Aboriginal Non-Profit Initiatives." Prerequisite: [a grade of "C" or better in NA TV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of department head.

NATV 3170 Indigenous Peoples and Racism in Canada Cr. Hrs. 3

This course will trace the historical and colonial roots of racism Indigenous Peoples experienced in Canadian history as well as examine its practices in contemporary society and culture. Concepts such as systemic racism, cultural difference and anti-racist education may be explored. Class format will include readings, seminar discussions, some films and lectures. Critical reading and analysis is expected. Students may not hold credit for both NATV 3170 and NATV 3000 when titled "Racism and Aboriginal Peoples." Prerequisite: [a grade of "C" or better in NA TV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of instructor or department head.

NATV 3222 Structure of Anishinaabemowin (Ojibwe) Language Cr. Hrs. 3

A detailed structural analysis of Anishinaabe (Ojibwe) with special attention to the problem of dialect variation and to the contrastive analysis of Anishinaabemowin and English. Students may not hold credit for both NATV 3222 and the former NATV 2330. Prerequisite: [a grade of "C" or better in both NATV 2272 and NATV 2274] or [a grade of "C" or better in the former NATV 2270] or written consent of department head.

NATV 3224 Structure of the Cree Language Cr. Hrs. 3

A detailed structural analysis of Cree with special attention to the problem of dialect variation and to the contrastive analysis of Cree and English. Students may not hold credit for both NATV 3224 and the former NATV 2320. Prerequisite: [a grade of "C" or better in NATV 2250] or written consent of department head.

NATV 3240 Indigenous Medicine and Health Cr. Hrs. 3

The health, disease, and medical practices of North American Indigenous peoples. A survey of the health and health care of North American Indigenous peoples from pre-contact to modern times. Special attention will be paid to traditional concepts of health and healing practices.

NATV 3270 The Métis Nation: The Modern Era Cr. Hrs. 3

A study of the dispossession of the Métis Nation after 1870, their resurgence in the 1950s and contemporary issues affecting Métis people in Canada. Also offered as HIST 3272. May not be held for credit with HIST 3272. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 3280 Indigenous Peoples and the Canadian Justice System Cr. Hrs. 3

A study of Indigenous peoples' relationships to civil and criminal law in modern Canadian society. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of department head.

NATV 3290 Independent Research Cr. Hrs. 3

Supervised research or field work. Results will be presented in a form appropriate to the subject of study. Written consent of department head, based on a written research proposal, must be obtained before registration. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

NATV 3300 Indigenous Language Planning and Development Cr. Hrs. 3

The social and political setting of the indigenous languages of North America. Issues and methods in language policy development, maintenance, standardization, and innovation. Prerequisite: a grade of "C" or better in six credit hours of Native Languages at the second year level.

NATV 3310 Canadian Law and Indigenous Peoples Cr. Hrs. 3

A survey of laws relating to Indigenous peoples in Canada. Topics will include legal aspects of Indigenous title, First Nations treaties, First Nation and Metis land claims, the Indian Act, hunting and fishing rights, self-government, and constitutional issues. Prerequisite: [a grade of "C" or better in NA TV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of department head.

NATV 3330 Indigenous People, Science and the Environment Cr. Hrs. 3

This course will examine current Indigenous environmental and development issues both locally and internationally. The basic principles of Indigenous philosophy and how present forms of development on Indigenous land has conflicted with this philosophy will be examined. Prerequisite: written consent of department head.

NATV 3340 Circumpolar Cultures and Lifestyles Cr. Hrs. 3

An interdisciplinary study of inter-relationships between the history, traditional lifestyles, politics, and environment of circumpolar Indigenous peoples. Prerequisite: written consent of department head.

NATV 3350 Indigenous Organizations Cr. Hrs. 6

A study of local, regional and national Indigenous organizations in contemporary North America and their interaction with government and private agencies. A field component may be included depending on instructor. Contact the Department of Native Studies for details. Students may not hold credit for both NA TV 3350 and the former NA TV 3320. Prerequisite: [a grade of "C" or better in NA TV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of department head.

NATV 3360 Aboriginal Women of Canada Cr. Hrs. 3

This course explores and critically examines from interdisciplinary and post-colonial perspectives historical and contemporary processes, representation, experiences and social issues specific to Indigenous women of Canada. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor or department head.

NATV 3370 Political Development in the North Cr. Hrs. 3

An examination of historical and contemporary political processes in Nunavut, Northwest Territories, and Yukon including the negotiation and implementation of Indigenous land claims. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor.

NATV 3380 Gender and Indigenous Societies Cr. Hrs. 3

An examination of the theoretical issues that surround the cultural construction of Indigenous gender leading into detailed ethnographic and historical case studies. Prerequisites: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NA TV 1220 and NA TV 1240] or written consent of instructor.

NATV 3390 Cultural Continuity and Change in Cumberland Sound Cr. Hrs. 3

This course examines the rich and complex history of Cumberland Sound. The course also discusses the specific character of Inuit culture in Cumberland Sound and, in a series of lectures on contemporary community dynamics, looks at recent expressions of culture. Students may not hold credit for both NATV 3390 and NATV 3000 when titled "Culture and History in Cumberland Sound."

8.22.5 Native Studies Course Descriptions-4000 Level**NATV 4200 First Nations' Government Cr. Hrs. 3**

A review and critical examination of the evolution of First Nations' self-government with a focus on contemporary issues, models and trends. Prerequisite: written consent of department head.

NATV 4210 Seminar in Contemporary and Historical Métis Issues **Cr. Hrs. 3**

A study of the literature, both primary and secondary, dealing with the Métis people in Canada. Prerequisite: written consent of department head.

NATV 4220 Environment, Economy and Aboriginal Peoples **Cr. Hrs. 3**

An analysis of sustainable development issues discussed within a cultural context. Depending on the instructor, this course may have a field component. Contact the Department of Native Studies for details. Prerequisite: written consent of department head.

NATV 4230 Traditional Knowledge and Indigenous Studies Research **Cr. Hrs. 3**

A study of issues influencing oral histories, case studies, interviews, and other techniques used in research with Indigenous people. Depending on the instructor, this course may have a field component. Contact the Department of Native Studies for details. Prerequisite: written consent of department head.

NATV 4240 Arctic Lifestyles **Cr. Hrs. 3**

An interdisciplinary study of the interrelationships between culture, economy, and ecology in the Arctic region. Depending on instructor, this course may have a field component. Contact the Department of Native Studies for details. Prerequisite: written consent of department head.

NATV 4250 Indigenous Identities **Cr. Hrs. 3**

An interdisciplinary study of Aboriginal values, cultures and contemporary identities with emphasis on the impact of colonization. Prerequisite: [a grade of "C+" or better in NATV 1200 or "C+" or better in both NATV 1220 and NATV 1240] and [a grade of "C+" or better in 6 credit hours in Native Studies] or written consent of instructor.

NATV 4280 Missionaries, Colonialism, and Indigenous People **Cr. Hrs. 3**

A study of Indigenous responses to Christian missions with a particular emphasis on resistance, syncretism, and "prophet" movements. Prerequisite: [a grade of "C" or better in 15 credit hours of Native Studies] or written consent of instructor.

NATV 4290 Independent Research **Cr. Hrs. 3**

Supervised research or field work. Results will be presented in a form appropriate to the subject of study. Prerequisite: written consent of department head, based on a written research proposal, must be obtained before registration. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

NATV 4300 Advanced Selected Topics in Indigenous Studies **Cr. Hrs. 3**

The content of this course will vary from year to year. Contact the Department for a course description. Prerequisite: written consent of department head. As the course content will vary from year to year, students may take this course more than once for credit.

NATV 4320 Indigenous Economic Leadership **Cr. Hrs. 3**

An analysis of current leadership strengths and challenges facing Indigenous organizations. Out of this analysis will come understanding of strategies for working effectively with Indigenous organizations. Students may not hold credit for both NATV 4320 and the former IDM 4090. Prerequisite: [a grade of "C" or better in NATV 1200] or [a grade of "C" or better in both NATV 1220 and NATV 1240] or written consent of instructor.

NATV 4330 Indigenous Aesthetics **Cr. Hrs. 3**

This course will be centered on Indigenous philosophies and aesthetic theories regarding literature, film, theatre and visual arts produced by Indigenous writers, artists and filmmakers in Canada with special emphasis on conceptualizations of an oral "communitist," activist and resistance aesthetics. Prerequisite: [a grade of "C" or better in 15 credit hours of Native Studies courses which must include NATV 2410] or written consent of instructor or department head.

NATV 4340 Representation and Discourse **Cr. Hrs. 3**

This course examines the discourse of representation surrounding Indigenous Peoples and Canada's historical and cultural productions. Although the focus is on Canadian material and experience, the course draws on international post-colonial approach in the critical study of archival and historical records, literary works and contemporary Indigenous expressions. Method of study includes historiography, film and literary criticism and post-colonial theory. Prerequisite: [a grade of "C" or better in NATV 2410] or written consent of instructor or department head.

8.23 Department of Philosophy

Head: Rhonda Martens
Campus Address/General Office: 450 University College
Telephone: 204 474 6878
Email Address: Philosophy@umanitoba.ca
Website: umanitoba.ca/philosophy

8.23.1 Program Information

Philosophy is composed of several areas of study: these include logic, metaphysics, ethics, political philosophy, philosophy of science, philosophy of language, and aesthetics. Philosophers use the tools of rigorous logic and clear conceptual analysis. Their goal is to understand things such as the nature of reason, the physical universe, right and wrong, the human mind, and sometimes even the meaning of life. There are good arguments and bad arguments. Training in philosophy will help the student not only consider these important questions but also to improve his or her clarity of expression and ability to think critically.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours in Philosophy. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

The General Major may consist entirely of courses numbered beyond the 1000 level.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Philosophy.

The Minor (Concentration) may consist entirely of courses numbered beyond the 1000 level.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

8.23.2 Philosophy

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---|---|
| GENERAL MAJOR¹ TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours in Philosophy courses numbered at the 1000 level | <ul style="list-style-type: none"> • 6 credit hours from History of Philosophy courses listed below • an additional 18 credit hours in Philosophy courses | | |
| SINGLE ADVANCED MAJOR¹ TOTAL: 48 CREDIT HOURS | | | |
| 48 credit hours in Philosophy satisfying the following requirements: <ul style="list-style-type: none"> • 6 credit hours from PHIL 1200 or PHIL 1320 • 12 credit hours from History of Philosophy courses listed below • 3 credit hours from PHIL 2140 or PHIL 2200 • 3 credit hours from Philosophy courses numbered at the 1000 level and above • 12 credit hours from Philosophy courses numbered at the 2000 level and above • 12 credit hours from Philosophy courses numbered at the 3000 level and above. (Students must obtain written permission of the department head to take honours courses) | | | |
| DOUBLE ADVANCED MAJOR¹ TOTAL: 42 CREDIT HOURS | | | |
| 42 credit hours in Philosophy satisfying the following requirements: <ul style="list-style-type: none"> • 6 credit hours from PHIL 1200 or PHIL 1320 • 12 credit hours from History of Philosophy courses listed below • 3 credit hours from PHIL 2140 or PHIL 2200 • 3 credit hours from Philosophy courses numbered at the 1000 level and above • 6 credit hours from Philosophy courses numbered at the 2000 level and above • 12 credit hours from Philosophy courses numbered at the 3000 level and above. (Students must obtain written permission of the department head to take honours courses) | | | |
| MINOR (CONCENTRATION)¹ TOTAL 18 CREDIT HOURS | | | |
| 6 credit hours in Philosophy | 12 credit hours in Philosophy courses | | |
| SINGLE HONOURS^{1,4} | | | |
| 6 credit hours in Philosophy courses numbered at the 1000 level | <ul style="list-style-type: none"> • PHIL 2140 • PHIL 2200 • 12 credit hours from PHIL 2580, PHIL 2612, PHIL 2614, PHIL 2630, PHIL 2640, PHIL 2650, PHIL 2660, PHIL 2770, PHIL 2780, PHIL 2790, PHIL 3580 | <ul style="list-style-type: none"> • 9 credit hours in Honours Philosophy courses • 3 credit hours from PHIL 2580, PHIL 2612, PHIL 2614, PHIL 2630, PHIL 2640, PHIL 2650, PHIL 2660, PHIL 2770, PHIL 2780, PHIL 2790, | <ul style="list-style-type: none"> • 12 credit hours in Honours Philosophy courses • 6 credit hours in Philosophy courses numbered at the 2000 level and above • 6 credit hours of |

| | | | |
|---|---|---|---|
| | <ul style="list-style-type: none"> • 12 credit hours of ancillary options² | PHIL 2790, PHIL 3580 <ul style="list-style-type: none"> • an additional 3 credit hours from History of Philosophy courses listed below • 3 credit hours in Honours Philosophy courses or History of Philosophy courses listed below • 6 credit hours of ancillary options² • 6 credit hours of free options³ | ancillary options ² <ul style="list-style-type: none"> • 6 credit hours of free options³ |
| DOUBLE HONOURS^{1,4} | | | |
| 6 credit hours in Philosophy courses numbered at the 1000 level | <ul style="list-style-type: none"> • 6 credit hours from History of Philosophy courses listed below • PHIL 2140 • PHIL 2200 • 6 credit hours of ancillary options² • 12 credit hours in other Honours field | <ul style="list-style-type: none"> • 6 credit hours in Honours Philosophy courses • 3 credit hours from PHIL 2580, PHIL 2612, PHIL 2614, PHIL 2630, PHIL 2640, PHIL 2650, PHIL 2660, PHIL 2770, PHIL 2780, PHIL 2790, PHIL 3580 • an additional 3 credit hours from History of Philosophy courses listed below • 12 credit hours in other Honours field • 6 credit hours of free options³ | <ul style="list-style-type: none"> • 6 credit hours in Honours Philosophy courses • 6 credit hours in Philosophy courses numbered at the 2000 level and above • 12 credit hours in other Honours field • 6 credit hours of free options³ |
| NOTES: ¹ No student may hold credit in both PHIL 1200 and the former PHIL 1510. ² Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Philosophy courses). ³ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Philosophy courses). | | | |

⁴ Honours courses: PHIL 3430, PHIL 3440, PHIL 3580, PHIL 3630, PHIL 3640, PHIL 3650, PHIL 3760, PHIL 3770 and all 4000 level courses.

| History of Philosophy | | |
|-----------------------|---|---|
| Course | Credit Hours | |
| PHIL 2300 | Political Philosophy | 6 |
| PHIL 2612 | A Philosophical History of Science | 3 |
| PHIL 2630 | Continental Rationalism | 3 |
| PHIL 2640 | British Empiricism | 3 |
| PHIL 2650 | Plato | 3 |
| PHIL 2660 | Aristotle | 3 |
| PHIL 2710 | Twentieth-Century European Philosophy: Existentialism | 3 |
| PHIL 2780 | Thomas Aquinas | 3 |
| PHIL 2790 | Moral Philosophy | 6 |
| PHIL 3580 | Kant | 3 |

8.23.3 Philosophy Course Descriptions-1000 Level

PHIL 1200 Introduction to Philosophy **Cr. Hrs. 6**

An introduction to five main areas of philosophy. Topics are logical thinking; the criteria and limits of human knowledge; and three of: God, right and wrong, free will and the nature of consciousness, scientific inquiry, and social justice. Students may not hold credit for PHIL 1200 and any of: PHIL 1511 or the former PHIL 1510 or the former PHIL 1261.

PHIL 1290 Critical Thinking **Cr. Hrs. 3**

A course which helps students to think clearly and critically, and to present, defend, and evaluate arguments. The instructor will discuss good and bad reasoning, everyday fallacies, some specific argument forms such as the categorical syllogism, and ways and means of defining words. Students may not hold credit for PHIL 1290 and any of: PHIL 1291 or PHIL 1320 or PHIL 1321.

PHIL 1320 Introductory Logic **Cr. Hrs. 6**

A course which helps students to think clearly and critically, and to present, defend and evaluate arguments. The course deals with categorical logic, non-formal fallacies, definition, modern symbolic logic and scientific method. Not open to students who have previously obtained credit for PHIL 2200 or the former PHIL 2430 or the former PHIL 3750. Students may not hold credit for PHIL 1320 and any of: PHIL 1321 or PHIL 1290 or PHIL 1291 or the former PHIL 1330.

8.23.3 Philosophy Course Descriptions-2000 Level

PHIL 2140 Theory of Knowledge **Cr. Hrs. 3**

This course challenges and investigates our view of knowledge and rationality. Problems dealt with normally include: the nature of knowledge, sense experience, truth and necessary truth, the analytic-synthetic distinction, memory, induction, etc. Students may not hold credit for both PHIL 2140 and the former PHIL 2760. Prerequisite: [a grade of "C" or better in six credit hours of Philosophy] or written consent of department head.

PHIL 2150 Mind and Body **Cr. Hrs. 3**

An introduction to theories of the mind and body, including dualism, identity theory and functionalism. The course deals with topics such as consciousness, thought, and desire. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level philosophy] or [successful completion of 30 hours of university credit].

PHIL 2160 Fundamentals of the Philosophy of Language **Cr. Hrs. 3**

An introduction to theories of language, including those of Gottlob Frege and Bertrand Russell. The course deals with a variety of linguistic phenomena pertaining to names, definite descriptions, demonstratives, identity sentences, and belief reports. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level philosophy] or [successful completion of 30 hours of university credit].

PHIL 2170 Special Topics **Cr. Hrs. 3**

Topics will vary. Prerequisite: [a grade of "C" or better in three credit hours of philosophy] or [successful completion of 30 hours of university credit]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 2190 Philosophy and Sexuality **Cr. Hrs. 3**

Course examines various moral and legal issues related to sexuality. Topics may include: casual sex, monogamy, love, and commitment; the definition of marriage; the meaning of gender; the nature of consent; the moral and legal status of prostitution and pornography; the scope of sexual privacy and other moral challenges presented by new technology. Students may not hold credit for both PHIL 2190 and PHIL 2170 when titled "Sexuality." Prerequisite: successful completion of 24 hours of university credit.

PHIL 2200 Intermediate Logic **Cr. Hrs. 3**

A systematic investigation of the theory and techniques of modern symbolic logic, with an examination of contributions made by contemporary philosophers in dealing with philosophical problems closely connected with logic. Students may not hold credit for both PHIL 2200 and the former PHIL 2430. Prerequisite: [a grade of "C" or better in PHIL 1320 or PHIL 1321] or written consent of instructor.

PHIL 2290 Ethics and Society **Cr. Hrs. 6**

An examination of some contemporary ethical theories and their application to a number of practical issues. Current issues to be discussed may include: ethics and the environment; abortion and euthanasia; sexual freedom and human equality; civil disobedience; individual liberty vs. state authority; punishment; and, justice and utility. Students may not hold credit for PHIL 2290 and any of: PHIL 2531 or PHIL 2740 or PHIL 2741 or PHIL 2750 or PHIL 2751. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2300 Political Philosophy **Cr. Hrs. 6**

An analysis and evaluation of the main ideals - justice, freedom, happiness, equality, and self-realization - of the great political philosophers (e.g., Plato, Hobbes, Locke, Mill, and Marx) and of their theories of human nature and their blueprints for society. Students may not hold credit for both PHIL 2300 and PHIL 2301. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2580 Metaphysics **Cr. Hrs. 3**

A study of some fundamental problems relating to the nature of reality, e.g., mind and body, cause and effect, human freedom, and the problem of universals. Students may not hold credit for both PHIL 2580 and the former

PHIL 2450. Prerequisite: a grade of "C" or better in six credit hours of Philosophy at the 1000 level.

PHIL 2612 A Philosophical History of Science Cr. Hrs. 3

A philosophical study of the evolution of science and scientific methodology from the ancient Greeks to the present. A background in science is not required. Students may not hold credit for both PHIL 2612 and the former PHIL 2610. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2614 Philosophy of Science Cr. Hrs. 3

A critical study of the nature of scientific knowledge. A background in science is not required. Students may not hold credit for both PHIL 2614 and the former PHIL 2610. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2630 Continental Rationalism Cr. Hrs. 3

A study of the great Continental philosophers, Descartes, Spinoza, and Leibniz, who viewed reason, rather than experience, as the key to knowledge of the universe. Students may not hold credit for both PHIL 2630 and PHIL 2631. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level Philosophy] or written consent of department head.

PHIL 2640 British Empiricism Cr. Hrs. 3

The course surveys and analyzes the theories of the great British empiricists, Locke, Berkeley, and Hume, on the nature and foundations of human knowledge and its relation to experience. Students may not hold credit for both PHIL 2640 and PHIL 2641. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level Philosophy] or written consent of department head.

PHIL 2650 Plato Cr. Hrs. 3

An examination of Plato's views on reality, "man", politics, and morals through a study of his most significant dialogues. The course will begin with a discussion of the main pre-socratic philosophers. Students may not hold credit for both PHIL 2650 and the former PHIL 2651. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level Philosophy] or written consent of department head.

PHIL 2660 Aristotle Cr. Hrs. 3

A study of Aristotle's most important views on reality, knowledge, morals, and politics, and of the late classical philosophies: epicureanism and stoicism. Students may not hold credit for both PHIL 2660 and PHIL 2661. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level Philosophy] or written consent of department head.

PHIL 2710 Twentieth-Century European Philosophy: Existentialism Cr. Hrs. 3

This course will be devoted to a study of existentialist themes as they appear in the writings, both literary and philosophical, of some of the following: Beckett, Camus, de Beauvoir, Hesse, Heidegger, Kafka, Kierkegaard, Marcel, Nietzsche, Sartre, Buber, R.D. Laing, and various existential psychologists. Students may not hold credit for PHIL 2710 and any of: the former PHIL 2820 or the former PHIL 2821.

PHIL 2730 Fundamentals of the Philosophy of Religion Cr. Hrs. 3

A critical study of some fundamental problems in the philosophy of religion, such as the existence and nature of God, the justification of religious beliefs, the status of mystical and other religious experiences, and

the significance of religious discourse. Students may not hold credit for PHIL 2730 and any of: PHIL 2701 or the former PHIL 2700.

PHIL 2740 Ethics and Biomedicine Cr. Hrs. 3

An examination of some important ethical issues arising out of recent developments in biology and medicine. Examples of topics to be covered include: the allocation of scarce medical resources; genetic engineering; euthanasia vs. the prolongation of life; abortion and infanticide, and experimentation on human subjects. Students may not hold credit for PHIL 2740 and any of: PHIL 2741 or PHIL 2290 or PHIL 2531. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2750 Ethics and the Environment Cr. Hrs. 3

An examination of some important ethical issues connected with environmental pollution and resource depletion. Examples to be covered include: the ideal of liberty and environmental limits; scarcity and the ideal of justice; growth vs. steady-state economics; animal rights, and survival ethics vs. welfare ethics. Students may not hold credit for PHIL 2750 and any of: PHIL 2751 or PHIL 2290 or PHIL 2531. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2770 Philosophy of Art Cr. Hrs. 6

An introductory analysis of some contemporary aesthetic theories and an examination of such problems as the relation between art and morality, meaning and expression in art, the nature and functioning of criticism, and the justification of standards of aesthetic evaluation.

PHIL 2780 Thomas Aquinas Cr. Hrs. 3

A study of Aquinas' views on topics such as humans, universals, truth, the existence and nature of God, morality and natural law, and the relation of philosophy to religious faith. Students may not hold credit for PHIL 2780 and any of: PHIL 2320 or the former PHIL 2321.

PHIL 2790 Moral Philosophy Cr. Hrs. 6

An introduction to moral philosophy and influential moral philosophers of the past and present. The main emphasis will be on the nature and justification of moral judgement. Philosophers such as Plato, Hobbes, Hume, Kant, Moore, Stevenson, Hare and Rawls will be discussed. Prerequisite: [a grade of "C" or better in six credit hours of 1000-level Philosophy] or written consent of department head.

PHIL 2800 Contemporary Political Philosophy Cr. Hrs. 3

An examination of recent theories about whether there should be political authority, who should wield it, what is its proper scope and what are the duties and rights of citizens. The course will deal with representatives of such positions as anarchism, communism, conservatism, liberalism. Students may not hold credit for both PHIL 2800 and the former PHIL 3710. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2830 Business Ethics Cr. Hrs. 3

The course will explore the application of ethical theory to business. Topics to be discussed will normally include: theories of justice, corporate responsibility, the ethics of advertising, consumer and environmental protection, and preferential hiring. Students may not hold credit for both PHIL 2830 and PHIL 2831. Prerequisite: successful completion of 30 hours of university credit.

PHIL 2840 The Ethics of War and Peace Cr. Hrs. 3

A study of the ethical issues connected with war and the securing of peace, as articulated in the writings of major philosophers and selected political

and military thinkers. Relevant moral theories, such as non-violence, holy war, the just war, the ethical reasoning underlying policies of deterrence, will be critically examined in historical and contemporary context. Students may not hold credit for both PHIL 2840 and PHIL 2841.

PHIL 2860 Philosophy of Law Cr. Hrs. 3

An introduction to the philosophy of law and to rule systems generally. Sample topics include the concept of law (law and religion; natural law; and the "laws of the books"); the connection, if any, between law and morality; and the politics of law in Canada and elsewhere. Students may not hold credit for both PHIL 2860 and PHIL 2861.

PHIL 2870 Philosophy and Law Cr. Hrs. 3

An inquiry into the philosophy of law, on issues not covered in PHIL 2860. Students will examine such topics as: guilt and responsibility; theories of punishment; the right to dissent; legal reasoning; and, "professional ethics." Students may not hold credit for both PHIL 2870 and PHIL 2871.

8.23.3 Philosophy Course Descriptions-3000 Level

PHIL 3220 Feminist Philosophy Cr. Hrs. 3

An examination of philosophical issues of special interest to students of feminism and women's issues. Topics typically include: feminist epistemology, metaphysical implications of feminism, and feminist ethics. Prerequisite: [a grade of "C" or better in six credit hours in Philosophy] or written consent of department head.

PHIL 3290 Self-Transformation in Religion and Philosophy Cr. Hrs. 3

This course examines contemporary expressions of spiritual exercises by tracing their traditions across an array of western religious and philosophical schools. The course explores themes of death, asceticism, aestheticism, everydayness and community. In particular, it explores how dialogue, reading, and writing have constituted tools for the cultivation of mental, physical and emotional states leading to self-transformation. Also offered as RLGN 3290. May not be held with RLGN 3290.

PHIL 3430 Problems in Legal Philosophy Cr. Hrs. 3

A treatment of some problems arising in the philosophy of law including responsibility and the doctrine of mens rea, theories of punishment, law and morality, and the concept of law. Prerequisite: written consent of department head.

PHIL 3440 Problems in Social and Political Philosophy Cr. Hrs. 3

A treatment of selected problems arising in social and political philosophy, e.g., the philosophy of the state, distributive justice, and the ethics of revolution. Prerequisite: written consent of department head.

PHIL 3580 Kant Cr. Hrs. 3

A study of the 18th-century German thinker, Immanuel Kant, focusing on the revolutionary theories about reality and human knowledge contained in his major metaphysical work, *The Critique of Pure Reason*. Prerequisite: [a grade of "C" or better in one of: PHIL 2630 or PHIL 2631 or PHIL 2640 or PHIL 2641] or written consent of department head. PHIL 3580 counts as a Group 2 and Group 4 course.

PHIL 3630 Contemporary Epistemology Cr. Hrs. 3

A critical examination of contemporary issues in the theory of knowledge including recent empiricist attempts to resolve the problem of justifying belief. Typical topics include foundations of knowledge, the concept of

"truth", radical scepticism, the new riddle of induction, normative epistemology, the psychology and sociology of knowledge. Prerequisite: [a grade of "C" or better in PHIL 2140 or the former PHIL 2760] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 3650 Contemporary Metaphysics Cr. Hrs. 3

An intensive investigation of the most significant recent scholarly research into metaphysics, including issues of ontology, reference and existence, ontological commitment, realism vs. nominalism, Quine's notion of ontological relativity, etc. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 3760 Topics in Moral Theory 1 Cr. Hrs. 3

A critical examination of such issues in moral theory as moral scepticism, contractarianism, moral realism, utilitarianism and justice. Prerequisite: [a grade of "C" or better in PHIL 2790] or written consent of department head.

PHIL 3770 Topics in Moral Theory 2 Cr. Hrs. 3

A critical examination of such issues in moral theory as moral realism, naturalism, moral epistemology, feminist ethics, moral language, egoism and justice. Prerequisite: [a grade of "C" or better in PHIL 2790] or written consent of department head.

8.23.3 Philosophy Course Descriptions-4000 Level

PHIL 4460 Contemporary Issues Cr. Hrs. 3

An intensive study of specially selected topics in contemporary philosophy. The subject matter of the course will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 4490 Philosophy of Mind Cr. Hrs. 3

A seminar concentrating on the analysis of consciousness. Topics include: mind and brain, the explanation of human behaviour, and whether or not machines and animals can think. Prerequisite: written consent of department head.

PHIL 4510 Philosophy of Language Cr. Hrs. 3

An examination of problems such as the nature of meaning, grammar, semantics, reference, truth, and methodology in the study of language. Prerequisite: written consent of department head.

PHIL 4520 Historical Topics 1 Cr. Hrs. 3

Selected topics in the history of philosophy. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 4580 Honours Seminar Cr. Hrs. 6

A seminar course with subject matter varying from year to year, designed to meet special needs of Honours Philosophy students. Prerequisite: written consent of department head.

PHIL 4600 Science and Philosophy since Newton Cr. Hrs. 3

This course traces the major threads of humankind's intellectual evolution from the time of Newton to the present. Figures studied include Newton, Kant, Maxwell, Darwin, Peirce, and Einstein. Issues include the nature of

space and time, of matter and energy, of living organisms, and the nature and evolution of human consciousness. Prerequisite: fourth year standing in any faculty or written consent of department head.

PHIL 4610 Directed Reading in Philosophy Cr. Hrs. 3

Subject matter will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PHIL 4630 Symbolic Logic 1 Cr. Hrs. 3

Selected topics in mathematical logic, including propositional and quantificational logic, number theory, and the major metatheoretical results. Prerequisite: written consent of department head.

PHIL 4640 Symbolic Logic 2 Cr. Hrs. 3

Selected topics in mathematical logic, including propositional and quantificational logic, number theory, and the major metatheoretical results. Prerequisite: written consent of department head.

8.24 Department of Political Studies

Head: Royce Koop
 Campus Address/General Office: 532 Fletcher Argue
 Telephone: 204 474 9733
 Email Address: Political.Studies@umanitoba.ca
 Website: umanitoba.ca/political_studies

8.24.1 Program Information

Political Studies examines the dynamics of human interaction in which individuals and groups compete to achieve their goals. The study of politics involves a consideration of the interactions between the individual, the state, government, public affairs and public policy. Political Studies examines the dynamics of these interactions in the context of competing visions, values and interests, particularly in the pursuit of varying public goals, including the quest for political power and the control of government. Politics is thus both a study of conflict between competing interests and a study of how these competing interests achieve compromise and cooperation.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours in Political Studies. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

A maximum of six credit hours in Political Studies courses numbered at the 1000 level may be used towards the 30 credit hours for a General Major or the 48 credit hours for a Single Advanced Major.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Political Studies.

A maximum of six credit hours in Political Studies courses numbered at the 1000 level may be used toward the 18 credit hours for a Minor.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Honours in Political Studies may be taken in combination with the program of Central and East European Studies. See Section 8.5.

Other

Combinations of courses for the Major, Minor and Honours programs, other than those listed above may be permitted by written consent of the department head. Similarly, Honours courses may be taken by students in the General or Advanced Major programs with the written consent of the department head.

Honours courses are open to Honours students and other advanced undergraduate students with written consent of instructor or department head.

8.24.2 Political Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--|--|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours in Political Studies courses numbered at or above the 1000 level | <ul style="list-style-type: none"> • 18 credit hours in Political Studies courses numbered at or above the 2000 level • 6 credit hours in Political Studies courses numbered at or above the 3000 level | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| 6 credit hours in Political Studies courses numbered at or above the 1000 level | <ul style="list-style-type: none"> • 30 credit hours in Political Studies courses numbered at or above the 2000 level • 12 credit hours in Political Studies courses numbered at or above the 3000 level | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in Political Studies courses numbered at or above the 1000 level | 12 credit hours in Political Studies courses numbered at or above the 2000 level | | |
| SINGLE HONOURS¹ | | | |
| 6 credit hours in Political Studies courses numbered at or above the 1000 level | <ul style="list-style-type: none"> • 21 credit hours in Political Studies courses numbered at the 2000 level • 9 credit hours in ancillary options³ | <ul style="list-style-type: none"> • POLS 3950 • 21 credit hours in Political Studies courses numbered at the 3000 level² | <ul style="list-style-type: none"> • 3 credit hours in Political Studies courses numbered at the 3000 level² • 18 credit hours in Political Studies courses |

| | | | |
|--|--|---|---|
| | | | numbered at the 4000 level |
| DOUBLE HONOURS¹ | | | |
| 6 credit hours in Political Studies courses numbered at or above the 1000 level | <ul style="list-style-type: none"> 12 credit hours in Political Studies courses numbered at the 2000 level 6 credit hours in ancillary options³ 12 credit hours in other Honours field | <ul style="list-style-type: none"> 12 credit hours in Political Studies courses numbered at the 3000 level² 6 credit hours in free options⁴ 12 credit hours in other Honours field | <ul style="list-style-type: none"> 12 credit hours in Political Studies courses numbered at the 4000 level 6 credit hours in free options⁴ 12 credit hours in other Honours field |
| NOTES: | | | |
| ¹ Within the courses required above, a student must include at least six credit hours in political theory (POLS 2302, POLS 3310, POLS 3320, POLS 3350, POLS 3360, POLS 3370, POLS 3380, POLS 4310, POLS 4320). Students who enrolled in a program in Political Studies prior to Fall 2019 may use the aforementioned courses to satisfy the requirement for six credit hours in political theory. | | | |
| ² A student in Single or Double Honours may, with written permission of the department head, substitute: six credit hours in Honours courses numbered at the 4000-level in place of six credit hours numbered at the 3000-level. | | | |
| ³ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Political Studies courses). | | | |
| ⁴ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Political Studies courses). | | | |

8.24.3 Political Studies Course Descriptions-1000 Level

POLS 1502 Introduction to Political Studies **Cr. Hrs. 3**

(Lab required) This course introduces students to fundamental concepts in the analysis of political phenomena, as well as problems and issues associated with the exercise of authority and the construction of political legitimacy. Students may not hold credit for POLS 1502 and any of: POLS 1503 or the former POLS 1500 or the former POLS 1501.

POLS 1506 Survey of Political Studies **Cr. Hrs. 3**

(Lab required) This class introduces students to the academic study of politics. A primary objective of the course is that students will learn to differentiate among the various fields of Political Science including Political Theory, Canadian Politics, Global Politics, Public Administration and International Relations. The course thus prepares students to select coursework within the Political Studies major appropriate to their interests and career goals. Students may not hold credit for POLS 1506 and any of: the former POLS 1500 or the former POLS 1501.

8.24.3 Political Studies Course Descriptions-2000 Level

POLS 2302 Introduction to Political Theory **Cr. Hrs.3**

An Introduction to the oldest sub-discipline in political science. We examine key ideas such as justice, democracy, authority, sovereignty, and

punishment as well as their applications in political theory and practice. Students may not hold credit for POLS 2302 and any of: POLS 1010 or the former POLS 2510.

POLS 2502 Introduction to World Affairs **Cr. Hrs. 3**

An introduction to the analysis of events, actors and conflicts in world affairs. The course examines the constituent parts (or units of analysis) of the wider academic discipline of international relations. Examples are drawn mainly from international events since 1919, with appropriate references to earlier periods. Students may not hold credit for POLS 2502 and any of: POLS 2043, the former POLS 2040, or the former POLS 2041.

POLS 2504 Introduction to International Relations **Cr. Hrs. 3**

An introduction to the theories of the academic discipline called international relations. The course examines how different theories treat conflict, competition and cooperation among states and other actors. Examples are drawn mainly from international events since 1919, with appropriate references to earlier periods. Students may not hold credit for POLS 2504 and any of: POLS 2045, the former POLS 2040, or the former POLS 2410. Pre- or corequisite: a grade of "C" or better in POLS 2502 or POLS 2403.

POLS 2602 Introduction to Comparative Politics **Cr. Hrs. 3**

An introduction to the study of comparative politics, examining political processes and public policies in a variety of political systems including liberal democracies as well as post-Communist, newly industrializing, and developing nations. Students may not hold credit for POLS 2602 and any of: POLS 2003, POLS 2005 or the former POLS 2000.

POLS 2702 Introduction to Canadian Politics **Cr. Hrs. 3**

A survey of contemporary Canadian political institutions and processes, including federalism, Parliament, political parties, and treaties. Students may not hold credit for POLS 2702 and any of POLS 2073, POLS 2075 or the former POLS 2070.

POLS 2802 Introduction to Indigenous Politics **Cr. Hrs. 3**

An introduction to the complex issues associated with Indigenous peoples and their politics. The central issues of this course include the history and context of Indigenous government and political movements, and the political goals of Indigenous peoples today.

POLS 2902 How Government Works **Cr. Hrs. 3**

An introduction to key actors, institutions and processes in Canada's governmental system. Topics include fundamental principles; constitution; accountability; tribunals, legislation, and relationships with Indigenous Peoples. Students may not hold credit for POLS 2902 and POLS 2571.

8.24.3 Political Studies Course Descriptions-3000 Level

POLS 3100 Gender and Politics in Canada **Cr. Hrs. 3**

This course introduces the principal themes in the study of gender and politics in Canada. Topics may include women's political organizing and activism, representation in political institutions, the gendered division of labour in the private and public spheres, gender and public policy, and the gendered nature of political behaviour. Prerequisite: [a grade of "C" or better in POLS 2702 or the former POLS 2070 or the former POLS 2071] or [a grade of "C" or better in both POLS 2073 and POLS 2075] or written consent of instructor or department head.

POLS 3140 Selected Topics in Politics 1 **Cr. Hrs. 3**

The content of this course will vary. Contact the department for a course description. Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

POLS 3150 Selected Topics in Politics 2 Cr. Hrs. 3

The content of this course will vary. Contact department for a course description. Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

POLS 3250 International Political Economy Cr. Hrs. 3

A survey of the relationship between political authority and the production and distribution of global wealth. Emphasis is placed on the historical development of international political economy, its fundamentals, as well as major theoretical perspectives. Students may not hold credit for both POLS 3250 and POLS 3251. Prerequisite: [a grade of "C" or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041] or written consent of instructor or department head.

POLS 3270 Theories of the Capitalist World Order Cr. Hrs. 3

A critical survey of major theories that have successively dominated understandings of the modern capitalist world order including mercantilism, free trade, imperialism, hegemonic stability theory, globalization, regionalism, empire and multipolarity, paying particular attention to the political economy underlying each. Prerequisite: [a grade of "C" or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041] or written consent of instructor or department head.

POLS 3310 Pre-Modern Political Theory Cr. Hrs. 3

A survey and evaluation of early canonical texts and ideas in the history of Western political theory. Thinkers may include, but are not limited to: Plato, Aristotle, and Machiavelli. Students may not hold credit for POLS 3310 and the former POLS 2513. Prerequisite: a grade of C or better in POLS 2302 or the former POLS 2510.

POLS 3320 Social Contract Theory Cr. Hrs. 3

A survey and evaluation of canonical texts and ideas in the history of the social contract tradition. Thinkers may include, but are not limited to: Hobbes, Locke, Hume, and Rousseau. Prerequisite: a grade of C or better in POLS 2302 or the former POLS 2510.

POLS 3340 Middle East Politics Cr. Hrs. 3

An examination of the Middle East as a region of global strategic significance, with an emphasis on the major issues related to war and peace in selected Middle Eastern conflicts. Students may not hold credit for both POLS 3340 and POLS 3140 when offered with the topic "Arab Israeli Conflict."

POLS 3342 Arab-Israeli Conflict Cr. Hrs. 3

An examination of the history and politics of the longstanding conflict between Israel and the Arab world with particular focus on the Israel-Palestinian context. Students may not hold credit for both POLS 3342 and POLS 3140 when offered with the topic "Arab-Israeli Conflict."

POLS 3350 Liberty Cr. Hrs. 3

A survey and analysis of the concept of liberty, its rival interpretations, and applications in political theory and practice. Pre-requisite: A grade of C or better in POLS 2302 or the former POLS 2510.

POLS 3360 Rights Cr. Hrs. 3

A survey and analysis of the concept of rights, their rival interpretations, and applications in political theory and practice. Students may not hold credit for both POLS 3360 and POLS 3140 when titled "Rights". Prerequisite: A grade of "C" or better in POLS 2302 or the former POLS 2510.

POLS 3370 Equality Cr. Hrs. 3

A survey and analysis of the concept of equality, its rival interpretations, and applications in political theory and practice. Pre-requisite: A grade of C or better in POLS 2302 or the former POLS 2510.

POLS 3380 Contemporary Political Theory Cr. Hrs. 3

A survey and evaluation of key texts and ideas in contemporary political theory. Students may not hold credit for both POLS 3380 and POLS 2515. Prerequisite: A grade of "C" or better in POLS 2302 or the former POLS 2510.

POLS 3390 Military Ethics Cr. Hrs. 3

An examination of major ethical theories and their applications to current moral issues in warfare and the military. Pre-requisite: A grade of C or better in POLS 2302 or the former POLS 2510.

POLS 3470 Canadian Public Management Cr. Hrs. 3

An introduction to the internal and external factors affecting contemporary public sector management in Canada. The course will examine the primary values, policies, processes, and structures within the civil service. Prerequisite: a grade of "C" or better in POLS 2902 or written consent of instructor or department head.

POLS 3512 Canadian Foreign and Defence Policy 1 Cr. Hrs. 3

An examination of Canadian foreign and defence policy, with attention to contemporary events and issues. The course is designed to examine both foreign and defence policies as interdependent issues for Canadian interests. Students may not hold credit for POLS 3512 and any of POLS 3563, the former POLS 3520, or the former POLS 3561. Prerequisite: A grade of C or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040.

POLS 3514 Canadian Foreign and Defence Policy 2 Cr. Hrs. 3

A continued examination of Canadian foreign and defence policy. The course will assess the evolution and changing priorities of Canadian foreign and defence issues, with particular attention to Canada's relations with the United States, Europe, Asia and the Third World. Students may not hold credit for POLS 3514 and any of POLS 3563, the former POLS 3520, or the former POLS 3561. Prerequisite: a grade of C or better in POLS 3512.

POLS 3530 War, Politics and Culture Cr. Hrs. 3

This course employs the medium of film to explore the way in which war is communicated to society, and how the evolution of warfare as a social activity is understood. Students may not hold credit for both POLS 3530 and POLS 3140 when titled "War, Politics and Popular Culture." Prerequisite: a grade of "C" or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041.

POLS 3540 Terrorism and Political Violence Cr. Hrs. 3

This course offers students a comprehensive and critical approach to the central features of domestic and international terrorism, with an emphasis on Canada. Students will be encouraged to look at the different ways in which terrorist issues have been framed by different authors and national contexts. Students may not hold credit for POLS 3540 and any of either POLS 3621 or POLS 3140 when titled "Terrorism and Political Violence." Prerequisite: a grade of "C" or better one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041.

POLS 3550 International Organizations Cr. Hrs. 3

This course explores the origins, theory and practice of international organizations, with a focus on organizations of particular interest to Canada. Students may not hold credit for both POLS 3550 and POLS 3771. Prerequisite: A grade of "C" or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041.

POLS 3560 Politics of International Law Cr. Hrs. 3

An introduction to international law including sources of international law, the use of force and international human rights. Pre-requisite: A grade of C or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041.

POLS 3580 U.N. Security Council Cr. Hrs. 3

This course explores one of the most powerful but maligned organs of the UN - the Security Council. Drawing on legal texts, resolutions and case studies, this course explores the history and evolution of this organ. Particular attention is paid to its decision-making processes and contributions to international peace and security and international law. Prerequisite: a grade of C or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040, or the former POLS 2041.

POLS 3640 Comparative Defence Policy Cr. Hrs. 3

The examination within a comparative framework of the factors determining the making and implementation of the defence policies of a number of representative and significant countries. Prerequisite: [a grade of "C" or better in one of: POLS 2504, or POLS 2045, or the former POLS 2040 or the former POLS 2041] or written consent of instructor or department head.

POLS 3650 American Politics Cr. Hrs. 3

A survey of the institutions and processes of the contemporary American political system, including the constitutional system, federalism, the presidency, Congress, the Supreme Court, political parties, voting behavior, and civil rights. Students may not hold credit for both POLS 3650 and the former POLS 3920. Prerequisite: a grade of "C" or better in one of: POLS 2602, or POLS 2005, or the former POLS 2000.

POLS 3670 Canadian Political Parties Cr. Hrs. 3

This course provides students with an understanding of the origins, evolution, operation and programmes of Canadian political parties. Topics addressed include party types, party systems, party organization and financing, electoral activities and party leadership. Prerequisite: [a grade of "C" or better in POLS 2702 or the former POLS 2070 or the former POLS 2071] or [a grade of "C" or better in both POLS 2073 and POLS 2075] or written consent of instructor or department head.

POLS 3720 Politics, Government and Society in Ukraine Cr. Hrs. 3

An analysis of political transition and development in Ukraine. Ukraine's international relations will also be examined. Students may not hold credit for both POLS 3720 and POLS 3140 when titled "Government Politics in Ukraine" or the former POLS 2920. Prerequisite: [a grade of "C" or better in one of: POLS 2504, or POLS 2602, or POLS 2005, or POLS 2045, or the former POLS 2000, or the former POLS 2040, or the former POLS 2041] or written consent of the instructor or department head.

POLS 3730 Canadian Constitutional Politics Cr. Hrs. 3

An in-depth examination of the constitutional foundations of the Canadian regime as well as the politics of the constitution and of constitutional reform. Prerequisite: a grade of "C" or better in one of: POLS 2702, or POLS 2073, or the former POLS 2070.

POLS 3740 Provincial Politics Cr. Hrs. 3

A survey of the politics of the Canadian provinces. Emphasis is on comparison of political cultures, governing institutions, political parties, elections and contemporary controversies. Students may not hold cred for both POLS 3740 and the former POLS 4180. Prerequisite: a grade of "C" or better in one of: POLS 2702, or POLS 2073, or the former POLS 2070.

POLS 3750 City Politics Cr. Hrs. 3

An examination of both institutions and political processes related to city politics in Canada. Pre-requisite: a grade of C or better in one of: POLS 2702, or POLS 2073, or the former POLS 2070.

POLS 3760 Media and Politics Cr. Hrs. 3

An introduction to the role of media in politics. Topics include political communication, political marketing and media discourse. Pre-requisite: a grade of C or better in one of: POLS 2702, or POLS 2073, or the former POLS 2070.

POLS 3810 Introduction to Marxism Cr. Hrs. 3

An overview of the thought of Karl Marx and Fredrick Engels, focusing on its philosophical origins, key concepts and ideas of their historical materialism, critique of political economy, political theory and philosophy. The development of Marxism after Marx and Engels, particularly in the tradition of Western Marxism, will be traced in the case of each concept and idea. Students may not hold credit for both POLS 3810 and the former POLS 4810.

POLS 3860 Canadian Federalism Cr. Hrs. 3

An examination of Canadian federal structures and processes with emphasis on constitutional influences, the evolution of jurisdictions, province-building and contemporary federal issues. Prerequisite: a grade of "C" or better in POLS 2702 or [both of POLS 2073 and POLS 2075] or the former POLS 2070.

POLS 3870 Politics of Indigenous-Settler Relations Cr. Hrs. 3

A disciplinary assessment of the theories, histories, development, and contemporary reality of settler-colonialism in Canada.

POLS 3880 Comparative Foreign Policy Cr. Hrs. 3

A comparative study of the factors affecting foreign policy in selected countries including, but not limited to, Canada, the United States, Russia, China, Japan, Great Britain, France, and Germany. The course also includes an examination of international, regional, and domestic factors affecting the creation of foreign policy by states. Students may not hold credit for both POLS 3880 and POLS 3881. Prerequisite: [a grade of "C" or better in one of: POLS 2504, or POLS 2041, or the former POLS 2040] or written consent of instructor or department head.

POLS 3940 Canadian Public Policy Cr. Hrs. 3

This course reviews the dominant theories that explain the origins and process of public policy development in Canada. Primary focus is on Canadian governmental actors and institutions. Prerequisite: a grade of C or better in POLS 2902 or POLS 2571.

POLS 3950 Research Methods in the Study of Politics Cr. Hrs. 3

An introduction to the major quantitative and qualitative research strategies employed in the study of politics. The topics addressed include interviewing, content analysis, comparative studies, survey design, sampling, research ethics and basic statistical analysis. Students may not hold credit for both POLS 3950 and POLS 3951. Prerequisite: [a grade of "C" or better in six credit hours of Political Studies at the 2000 level] or written consent of instructor or department head.

8.24.3 Political Studies Course Descriptions-4000 Level

POLS 4070 Advanced Seminar: Canadian Government Cr. Hrs. 3

Examines the core institutions of Canadian government and politics including parliamentary government, federalism, the Constitution and the Charter of Rights and Freedoms. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4080 Advanced Seminar: Canadian Democracy Cr. Hrs. 3

Examines the core institutions and processes of Canadian democracy including political parties, elections, social movements and interest groups, representation and public opinion. Students may not hold credit for both POLS 4080 and POLS 4160 when offered with the topic "Canadian

Democracy." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4140 Canadian Political Ideas Cr. Hrs. 3

An examination of the ideas that underlie Canadian politics. What are the values at the centre of political movements in Canada and where do they come from? How have these values changed over time and why? We will attempt to answer these questions by exploring the development of Canadian political ideas as well as our current ideological context in Canada. Effort will be made to reflect on ideological debate on contemporary issues of the day. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4150 Indigenous Governance Cr. Hrs. 3

An examination of Indigenous governance before and since the 'European invasion' which introduces key themes, debates and controversies pertaining to Indigenous governance and its study. Students may not hold credit for both POLS 4150 and POLS 4160 when offered with the topic "Indigenous Governance." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4160 Selected Topics in Politics 3 Cr. Hrs. 3

The content of this course will vary. Contact department for a course description. Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

POLS 4170 Selected Topics in Politics 4 Cr. Hrs. 3

The content of this course will vary. Contact department for a course description. Prerequisite: written consent of instructor or department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

POLS 4190 Manitoba Politics and Government Cr. Hrs. 3

An examination of politics and government in modern Manitoba. Topics addressed include federal-provincial relations, parties and elections, political culture, the legislative process and public policy. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4200 Politics of Development Cr. Hrs. 3

A survey of the problems and prospects facing developing countries with a particular focus on the changes in international economic governance in the aftermath of the financial crisis and the Great Recession, the role of the state in development and the political economy of emerging economies. Students may not hold credit for both POLS 4200 and POLS 4160 when titled "Politics of Development." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4310 Advanced Seminar in Political Theory Cr. Hrs. 3

Topics may include, but are not limited to: advanced history of political theory, advanced contemporary political theory, political theory and the family, liberalism and critics, toleration, political theory and gender, and conservative political theory. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4370 Comparative Public Administration Cr. Hrs. 3

A study of the systems, processes, and values of public administration in an international comparative context. Topics include public sector

organization and reform, international standards of policy and practice, and the role of international institutions in promoting public sector modernization. The course covers countries from several geographic zones and places domestic issues in the larger, global political economy. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4470 Managing Modern Government Cr. Hrs. 3

A study of the skills required to effectively manage in the public sector. Topics covered include: managerial effectiveness, written and interpersonal communication, gaining power and influence, working with political staff and politicians, conflict management, risk management, performance management, creating and working through teams, decision-making, motivation, and empowerment. Students may not hold credit for both POLS 4470 and the former POLS 4570. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4520 American Foreign and Defense Policy Cr. Hrs. 3

Examines American foreign policy with an emphasis upon the post-Cold War period. Students may not hold credit for both POLS 4520 and the former POLS 4940. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4540 Strategic Studies 1 Cr. Hrs. 3

An in-depth examination of the politics surrounding the nature, role, and utility of armed force in international politics, with particular focus upon the dominant theories, concepts and ideas that have governed or driven the development and employment of armed force. Students may not hold credit for both POLS 4540 and the former POLS 4730. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4550 Strategic Studies 2 Cr. Hrs. 3

An analysis of various post-Cold War dimensions of strategy. Topics covered include nuclear deterrence and proliferation, the evolution of warfare, counterinsurgency, terrorism, the use of robots on future battlefield, or cyberwarfare. Students may not hold credit for both POLS 4550 and the former POLS 4730. Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head. Prerequisite: A grade of "C" or better in POLS 4540.

POLS 4560 Canada and the Arctic Cr. Hrs. 3

Description An examination of the nature of domestic and international relations in the Arctic with an emphasis on the Canadian perspective. Students may not hold credit for both POLS 4560 and POLS 4170 when titled, "Canada and the Arctic: Issues of Governance and Security". Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4580 International Relations Theory Cr. Hrs. 3

An overview of the dominant and alternative analytical perspectives and debates in the study of International Relations. Students may not hold credit for POLS 4580 and any of: POLS 3841 or POLS 4170 when titled "International Relations Theory." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4620 Politics of Advanced Industrial States Cr. Hrs. 3

A survey of major themes in the politics of advanced industrial countries to give a rounded picture of the principal issues – political, economic, social and policy-related – facing these societies and an overview of the sub-discipline of comparative politics, its methods and substance. Students may not hold credit for both POLS 4620 and POLS 4160 when titled

"Comparative Politics of Advanced Industrial Countries." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4640 Comparative Indigenous Politics Cr. Hrs. 3

An examination of Indigenous law and politics in a comparative perspective. The course introduces students to key themes, debates, ideas, trends and controversies pertaining to Indigenous law and politics and its study. Students may not hold credit for both POLS 4640 and POLS 4170 when titled "Comparative Indigenous Politics." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4920 Theories and Issues in Public Administration Cr. Hrs. 3

Integrating theory and practice helps to better understand the challenges facing public administration. Topics covered include changing approaches to management, human resource and financial management, reporting, accountability, citizen engagement, and network governance. Students may not hold credit for both POLS 4920 and POLS 4170 when titled "Theories and Issues in Public Administration." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4930 Public Policy Process and Issues Cr. Hrs. 3

An introduction to the idea of policy analysis, including key foundational concepts and significant theories, models, and approaches; how and why the policy process operates as it does (empirical) and how and why some think it should (normative); and specific policy issues. Students may not hold credit for both POLS 4930 and POLS 4170 when titled "Public Policy Process and Issues." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4950 Qualitative Methods and Communication Cr. Hrs. 3

Communication coupled with an understanding of qualitative research approaches are key to success in public administration. Topics include research design, policy research, referencing, evaluating writing and research, and presenting for results. Students may not hold credit for both POLS 4950 and POLS 4170 when titled "Qualitative Methods and Communications for the Public Sector." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4960 Governance and Administration Cr. Hrs. 3

An introduction to theories of organization and bureaucracy linked to administrative practices in the public sector. Governance models (Traditional Public Administration, New Public Management, Multi-level Governance) in the Canadian, provincial, and local context will be explored. Students may not hold credit for both POLS 4960 and POLS 4170 when titled "Governance and Administration." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4970 State-Civil Society Relations Cr. Hrs. 3

An examination of how the state relates to civil society actors, notably the voluntary sector in Canada. Students will critically assess the role voluntary organizations play - and should play - in governing process. Students may not hold credit for both POLS 4970 and POLS 4170 when titled "State-Civil Society Relations." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

POLS 4980 Public Opinion and Public Policy Cr. Hrs. 3

An exploration of the nature, expression, and measurement of public opinion; how governments use public opinion; and the benefits and

challenges associated with the use of public opinion in governance. Students may not hold credit for both POLS 4980 and the POLS 4170 when titled "Public Opinion and Public Policy." Restricted to students enrolled in the Honours program in Political Studies or with written consent of the instructor or department head.

8.25 Department of Psychology

Head: Dan Bailis

Campus Address/General Office: P404 Duff Roblin Building

Telephone: 204 474 9338

Email Address: psychughead@umanitoba.ca

Website: umanitoba.ca/psychology

8.25.1 Program Information

Psychology is a discipline that examines questions concerning behaviour and mental processes. Cognitive processes such as perceiving, learning, remembering, thinking, talking, and social interactions as well as the biological basis for behaviour and human development are among the issues explored. Psychology on the one hand helps us understand human and animal behaviour, but on the other also provides insights that can help and benefit individuals and society. A degree program is also offered in the Faculty of Science.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in PSYC 1200 or a grade of "C" or better in both PSYC 1211 and PSYC 1221. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Single Advanced Major Co-operative Option-AVAILABLE SUMMER 2019

Entry and continuance in the Single Advanced Major Co-operative Option require completion of PSYC 2260 with a grade of "C" or better, and a cumulative GPA of 3.00 or higher. Students who fail to maintain the cumulative GPA of 3.00 while enrolled in the Co-operative Option will be required to withdraw from the option and revert to the Single Advanced Major or General Major program.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in PSYC 1200 or a grade of "C" or better in both PSYC 1211 and PSYC 1221, or written consent of the department head.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

8.25.2 Psychology

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---------------------------|---------------------------------------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| PSYC 1200 or PSYC | • PSYC 2250 and PSYC 2260 | 12 credit hours in Psychology courses | |

| | | | |
|--|---|---|--|
| 1211 and PSYC 1221 | • 6 additional credit hours in Psychology courses numbered at the 2000 level (3 hours from each of two different lettered menu categories) ¹ | numbered at the 2000 or 3000 level (3 hours from each of two different lettered menu courses not taken in Year 2) ¹ | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| PSYC 1200 or PSYC 1211 and PSYC 1221 | • PSYC 2250 and PSYC 2260 • 6 additional credit hours in Psychology courses numbered at the 2000 level (3 hours from each of two different lettered menu categories) ¹ | 12 credit hours in Psychology courses numbered at the 2000 or 3000 level (3 hours from each of two different lettered menu courses not taken in Year 2) ¹ | 18 credit hours in Psychology courses numbered at the 2000 or 3000 level (3 hours from any remaining lettered menu category) ¹ |
| SINGLE ADVANCED MAJOR CO-OPERATIVE OPTION Total: 48 Credit Hours- AVAILABLE SUMMER 2019 | | | |
| PSYC 1200 or PSYC 1211 and PSYC 1221 | PSYC 2250 and PSYC 2260 6 additional credit hours in Psychology courses numbered at the 2000 level (3 hours from each of two different lettered menu categories) ¹ | ARTS 3010 12 credit hours in Psychology courses numbered at the 2000 or 3000 level (3 hours from each of two different lettered menu courses not taken in Year 2) ¹ ARTS 3020 | 15 credit hours in Psychology courses numbered at the 2000 or 3000 level (3 hours from any remaining lettered menu category) ¹ ARTS 3030 |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| PSYC 1200 or PSYC 1211 and PSYC 1221 | 6 credit hours in Psychology courses numbered at the 2000 or 3000 level | 6 credit hours in Psychology courses numbered at the 2000 or 3000 level | |
| SINGLE HONOURS⁴ | | | |
| PSYC 1200 or PSYC 1211 and PSYC 1221 | • PSYC 2250 and PSYC 2260 • 6 credit hours in Psychology courses numbered at the 2000 or 3000 level: (3 hours from each of two different lettered menu categories) ¹ • 15 credit hours in ancillary options ² | • PSYC 3200 and PSYC 3340 and PSYC 3630 • 9 credit hours in Psychology courses numbered at the 2000 or 3000 level (3 hours each of at least two different lettered menu courses not taken in Year 2) • 3 credit hours in Psychology | • PSYC 4520 • 6 credit hours in Psychology courses numbered at the 4000 level • 9 credit hours in Psychology courses numbered at the 2000 or 3000 level, including any remaining menu category |

| | | | |
|--|--|--|---|
| | • 3 credit hours in free options ³ | courses numbered at the 4000 level or one of: PSYC 3520, PSYC 3560 or PSYC 3590 • 9 credit hours in ancillary options ² | • 3 credit hours in free options ³ • 6 credit hours in ancillary options ² |
| DOUBLE HONOURS⁴ | | | |
| PSYC 1200 or PSYC 1211 and PSYC 1221 | • PSYC 2250 and PSYC 2260 • 6 credit hours in Psychology courses numbered at the 2000 level: (3 hours from each of two different lettered menu categories) ¹ • 12 credit hours in other Honours field • 6 credit hours in an ancillary option ² | • PSYC 3200 and PSYC 3340 and PSYC 3630 • 3 credit hours in Psychology courses numbered at the 2000 level: (3 hours from one of the remaining different lettered menu categories) ¹ • 12 credit hours in other Honours field • 6 credit hours in free options ³ | • PSYC 4520 • 6 credit hours in Psychology courses numbered at the 4000 level • 12 credit hours in other Honours field • 6 credit hours in free options ^{3,5} |
| NOTES: | | | |
| ¹ Lettered menu categories are as follows: Category A: Personality/Social PSYC 2490, PSYC 2530, PSYC 2540 Category B: Developmental PSYC 2290 Category C: Learning PSYC 2440, PSYC 2470 Category D: Cognitive PSYC 2480 Category E: Biological PSYC 2360 | | | |
| ² Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Psychology courses). | | | |
| ³ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Psychology courses). | | | |
| ⁴ Honours courses: PSYC 3340 and all 4000 level courses. | | | |
| ⁵ Students hoping to pursue graduate studies should also consider adding an additional 4000 level course, or PSYC 3520 or PSYC 3560 or PSYC 3590 as a free option in Year 4. | | | |

8.25.3 Psychology Course Descriptions-1000 Level**PSYC 1200 Introduction to Psychology****Cr. Hrs. 6**

Basic concepts and principles of individual behaviour are examined, particularly those of human development, normal and abnormal behaviour, social psychology, learning, perception, and psychological measurement. Students may not hold credit for PSYC 1200 and any of: PSYC 1211 or PSYC 1221 or the former PSYC 1201. Prerequisite for all other courses in Psychology.

8.25.3 Psychology Course Descriptions-2000 Level**PSYC 2250 Introduction to Psychological Research****Cr. Hrs. 3**

Examines psychology as a scientific discipline and describes methods of collecting and interpreting psychological data. Required of all Majors and normally taken in the second year. Students may not hold credit for both PSYC 2250 and PSYC 2251. Prerequisite: [a grade of "C" or better in PSYC

1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2260 Introduction to Research Methods in Psychology **Cr. Hrs. 3**

Discusses concepts of inductive inference and explanation. The nature of research designs is emphasized. Required of all Majors and normally taken in the second year. Students may not hold credit for both PSYC 2260 and PSYC 2261. Prerequisite: a grade of "C" or better in PSYC 2250 or PSYC 2251.

PSYC 2290 Child Development **Cr. Hrs. 3**

The course deals with normal psychological development from prenatal life until puberty. The scientific approach to child study is emphasized. Students may not hold credit for PSYC 2290 and any of: PSYC 2291 or FMLY 2600. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2360 Brain and Behaviour **Cr. Hrs. 3**

This course explores the relationship between brain and behaviour. The student will first learn about the fundamental elements of the nervous system. Lectures will integrate these elements into discussions of systems responsible for sensation, motor control, emotion, sleep, learning and memory. Clinical scenarios will be used to illuminate function. Students may not hold credit for PSYC 2360 and any of: PSYC 2361, or PSYC 3530 or PSYC 3531 or PSYC 3540 or the former PSYC 3541 when titled Brain and Behaviour. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2380 Psychology of Gender **Cr. Hrs. 3**

A critical examination of the similarities and differences between women and men with a particular emphasis on gender roles and gender identity. Students may not hold credit for both PSYC 2380 and the former PSYC 2400. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2430 Humanistic and Transpersonal Psychology **Cr. Hrs. 3**

A survey of such topics as search for meaning, personal growth, self-actualization, electric stimulation of the brain, meditation, and extra-sensory perception. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2440 Behaviour Modification Principles **Cr. Hrs. 3**

The fundamental assumptions, principles, and procedures of behaviour modification are described and illustrated by applications to normal and abnormal human behaviour. Students may also conduct supervised projects in applied areas or in basic behavioural research. Students may not hold credit for both PSYC 2440 and PSYC 2441. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2470 Learning Foundations of Psychology **Cr. Hrs. 3**

Examines basic learning processes, along with examples of how psychologists study them. Emphasis is placed on how knowledge of basic learning processes can help us understand complex human behaviour. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201]

or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2480 Cognitive Processes **Cr. Hrs. 3**

An introduction to the higher mental processes from an information processing perspective. Topics include attention, cognitive development, imagery, language, memory and problem-solving. Extensive reference will be made to recent experimental findings. Students may not hold credit for both PSYC 2480 and PSYC 2481. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2490 Abnormal Psychology **Cr. Hrs. 3**

The study of theory and research on abnormal human behaviour. The major forms of psychological disturbance are discussed. An introduction to the prevention and treatment of psychological disturbances is given. Students may not hold credit for PSYC 2490 and any of: PSYC 2491 or the former PSYC 3460 or the former PSYC 3461. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2500 Elements of Ethology **Cr. Hrs. 3**

This course involves one three-hour lecture meeting and one laboratory per week and concerns the study of animal behaviour through lectures, films, and field trips. Parakeets, flies, and/or ducklings plus one animal of the student's choice will be observed. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2510 Comparative Psychology **Cr. Hrs. 3**

This course examines the viability of comparative psychology today, the type of subjects used in comparative psychology research, its history and background, some applications and contemporary viewpoints, and its current status. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2520 Orientations to Psychological Systems **Cr. Hrs. 3**

Examines and contrasts humanistic, psychodynamic, cognitive, and behavioural psychology with regard to consciousness vs. the unconscious, free-will vs. determinism, holism vs. analysis, purpose vs. past influences, transcendentalism vs. physicalism, and focus on the person vs. focus on problems. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2530 Psychology of Personality **Cr. Hrs. 3**

The study of theory and research on the principles affecting personality development and structure. Students may not hold credit for PSYC 2530 and any of: PSYC 2531 or the former PSYC 3450 or the former PSYC 3451. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2540 Social Psychology **Cr. Hrs. 3**

This course provides a basic introduction to the ways in which we affect and are affected by the behaviour of others. Topics typically include: attitudes and attitude change, social beliefs and judgements, conformity, persuasion, social norms and roles, group dynamics, prejudice, aggression, altruism, attraction and close relationships, and intergroup conflict.

Students may not hold credit for PSYC 2540 and any of: PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 2660 Sport Psychology **Cr. Hrs. 3**

This course examines the use of psychological knowledge to enhance the development of performance and satisfaction of athletes and others associated with sports. Topics include improving skills of athletes, motivating practice performance, increasing the effectiveness of coaches, and mental preparation for competition. Students may not hold credit for both PSYC 2660 and the former PSYC 3660. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

8.25.3 Psychology Course Descriptions-3000 Level

PSYC 3070 Adult Development **Cr. Hrs. 3**

This course deals with psychological changes during young adulthood, middle age, and old age. Students may not hold credit for both PSYC 3070 and the former PSYC 2370. Prerequisite: [a grade of "C" or better in PSYC 2290 or PSYC 2291] or written consent of department head.

PSYC 3110 Research in Social Psychology **Cr. Hrs. 3**

This course will provide an introduction to conducting research in social psychology. Students will gain experience in all facets of the research process including experimental design and preparation, human ethical review, data collection and analysis, and report writing. Prerequisite: [a grade of "C" or better in PSYC 2260 or PSYC 2261] and [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421].

PSYC 3130 Introduction to Health Psychology **Cr. Hrs. 3**

This course offers a survey of psychological issues in health and illness. Major topics will include the biopsychosocial approach, mental models of illness, pain, stress and coping, health-damaging and health-promoting behaviours, and psychological issues in medical care. Students may not hold credit for PSYC 3130 and any of: PSYC 3131 or PSYC 3530 when titled "Health Psychology." Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] or written consent of department head.

PSYC 3150 Behaviour Modification Applications **Cr. Hrs. 3**

Guidelines for designing, implementing, and evaluating behaviour modification applications are described in detail. Students may also conduct supervised projects in applied areas or in basic behavioural research. Students may not hold credit for PSYC 3150 and any of: PSYC 3151 or the former PSYC 2450 or the former PSYC 2451. Prerequisite: [a grade of "C" or better in PSYC 2440 or PSYC 2441] or written consent of department head.

PSYC 3160 Perception and Attention **Cr. Hrs. 3**

This lecture course will provide you with a basic introduction to the characteristics and processes of human perception. A scientific approach will be used with specific emphasis on exploring the relation between experimental evidence and theory. Topics to be covered include transmission of information through the visual and auditory systems, visual and auditory pattern recognition, selective and divided attention, and the role of attention and interpretation in perception. Students may not hold

credit for both PSYC 3160 and PSYC 3441. Prerequisite: [a grade of "C" or better in PSYC 2480 or PSYC 2481] or written consent of department head.

PSYC 3170 Research in Cognitive Psychology **Cr. Hrs. 3**

This course will provide an introduction to conducting research in human perception and cognition. Students will gain experience in all facets of the research process including: critical reading of relevant literature, experimental design and preparation, data collection and analysis, and report writing. Activities may include critiques of published research, research proposals, individual and/or group projects, research reports, and individual and/or group presentations. Prerequisite: [a grade of "C" or better in PSYC 2480 or PSYC 2481] or written consent of department head.

PSYC 3200 Thinking Critically About Psychological Research **Cr. Hrs. 3**

This course will teach students to apply critical thinking skills in the evaluation of psychological research. Core components will include the logic of research design, analysis and interpretation, the description of psychological studies, and the critical reading of published research. Activities will include the preparation of critiques of research claims published in both academic journals and in the main-stream press, sample research proposals, individual and/or group projects, and individual and/or group presentations. Prerequisite: [a grade of "B" or better in PSYC 2260 or PSYC 2261 or the former PSYC 2300] and written consent of department head.

PSYC 3310 Adolescent Development **Cr. Hrs. 3**

This course deals with normal psychological development from puberty until adulthood. Results of scientific research are emphasized. Students may not hold credit for PSYC 3310 and any of: PSYC 3311 or the former PSYC 2310 or the former PSYC 2311. Prerequisite: [a grade of "C" or better in PSYC 2290 or PSYC 2291] or written consent of department head.

PSYC 3340 Design and Analysis for Psychological Experiments **Cr. Hrs. 3**

Methods for controlling sources of internal validity in psychological experiments, such as randomization, blocking, factorial configuration, and repeated measurements, will be discussed. Descriptive and multivariate methods of analysis will also be introduced. The use of statistical packages will be illustrated. Students may not hold credit for PSYC 3340 and any of: PSYC 3341 or the former PSYC 4570. Prerequisite: [a grade of "B" or better in PSYC 2260 or PSYC 2261 or the former PSYC 2300] and written consent of department head.

PSYC 3350 Behavioural Neuroscience **Cr. Hrs. 3**

This course presents the fundamentals of the neurobiology of behaviour. Special importance is placed on the information-processing properties of the nervous system in order to provide a uniform framework for the understanding of such topics as perception, attention, sleep and wakefulness, motivation, and learning. Students may not hold credit for PSYC 3350 and any of: PSYC 3351 or the former PSYC 3330 or the former PSYC 3331. Prerequisite: [a grade of "C" or better in PSYC 2360 or PSYC 2361] or written consent of department head.

PSYC 3360 Experimental Child Psychology **Cr. Hrs. 3**

Research methods for developmental psychology are reviewed: ethics, conducting experiments with child participants in a group project, research design, data analysis, writing research papers in APA format, and creating a poster presentation. Prerequisite: a grade of "C" or better in PSYC 2290 or PSYC 2291.

PSYC 3380 Nature, Nurture and Behaviour Cr. Hrs. 3

This course provides an overview of behavioural genetics. It will introduce students to the basic principles of Mendelian, population, and quantitative genetics, as well as how they are used for the study of neuro-behavioural phenotypes, characteristics and traits in human, animal and insect systems, and how genes contribute to behaviour. Societal and ethical implications of the results of behavioural genetics are considered. Students may not hold credit for both PSYC 3380 and PSYC 3530 when titled "Nature, Nurture, and Behaviour." Prerequisite: [a grade of "C" or better in PSYC 2360 or PSYC 2361] or written consent of department head.

PSYC 3390 Thinking Cr. Hrs. 3

The class surveys work in cognitive science. Topics include probabilistic reasoning, heuristics and biases, artificial neural networks, mental representation of number, and the cognitive unconscious. Prerequisite: [a grade of "C" or better in PSYC 2480 or PSYC 2481] or written consent of department head.

PSYC 3430 Sensory Processes Cr. Hrs. 3

A review of the structure and function of biological receptor systems and how they mediate information about the environment. It includes such topics as receptor transduction, neural correlates of sensation, and neural models of sensory discrimination. Prerequisite: [a grade of "C" or better in PSYC 2360 or PSYC 2361] or written consent of department head.

PSYC 3470 Dyadic Relations Cr. Hrs. 3

This course covers friendship formation and dyadic relations – linking, liking, loving, and leaving – from an empirically oriented psychological perspective. Students may not hold credit for both PSYC 3470 and the former PSYC 2460. Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] or written consent of department head.

PSYC 3490 Individual Differences Cr. Hrs. 3

This course is concerned with the systematic way in which individuals vary. Topics include individual differences as a function of sex, age, race, and socioeconomic status. Specific behaviours to be studied include reaction-time differences, differences in intelligence, differences in aptitudes and interests, and differences in motor abilities. The reasons for some of these differences will also be delineated. Hence genetic and physiological factors, as well as psychological explanations for individual differences, will be studied. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] or written consent of department head.

PSYC 3520 Independent Research in Psychology 1 Cr. Hrs. 3

Students carry out a research project and write a paper. Research may include historical, theoretical or experimental analyses of psychological problems. Normally available only to third and fourth year students who are in Honours Psychology or who are Psychology Majors and have completed one of: both PSYC 2250 and PSYC 2260, or both PSYC 2251 and PSYC 2261, or the former PSYC 2300. A student may not hold credit for more than two of PSYC 3520 or PSYC 3560 or PSYC 3590. Prerequisite: prearranged written consent of an individual instructor and written consent of department head.

PSYC 3530 Contemporary Issues 1 Cr. Hrs. 3

The content of this course will vary from year to year, but in general it will entail either some specific topic of prominent interest in psychology or a

psychological analysis of some problem of current public interest. Students may not hold credit for both PSYC 3530 and PSYC 3531. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] and written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PSYC 3540 Contemporary Issues 2 Cr. Hrs. 3

The content of this course will vary from year to year, but in general it will entail either some specific topic of prominent interest in psychology or a psychological analysis of some problem of current public interest. Students may not hold credit for both PSYC 3540 and the former PSYC 3541. Prerequisite: [a grade of "C" or better in PSYC 1200 or the former PSYC 1201] or [a grade of "C" or better in both PSYC 1211 and PSYC 1221] and written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PSYC 3560 Supervised Field Study in Psychology Cr. Hrs. 3

Description Students usually do supervised field work in a community setting and write a paper. Normally available only to third and fourth year students who are in Honours Psychology or who are Psychology Majors. A student may not hold credit for more than two of: PSYC 3520, PSYC 3560, PSYC 3590. Prerequisite: prearranged written consent of an individual instructor and written consent of department head.

PSYC 3570 Psychology of Women Cr. Hrs. 3

Examines the unique experiences of women from a psychological perspective. Psychological theory and empirical research will inform course content. Students may not hold credit for both PSYC 3470 and the former PSYC 2390. Prerequisite: [a grade of "C" or better in PSYC 2380 or the former PSYC 2400] or written consent of department head.

PSYC 3580 Language and Thought Cr. Hrs. 3

An examination of recent investigations of human language behaviour. Emphasis will be placed on natural language phenomena, which will be examined within the framework of modern theories of thought. Some of the topics considered include communication, the development of language, and natural language comprehension. Prerequisite: [a grade of "C" or better in PSYC 2480 or PSYC 2481] or written consent of department head.

PSYC 3590 Independent Research in Psychology 2 Cr. Hrs. 3

Students carry out a research project and write a paper. Research may include historical, theoretical or experimental analysis of psychological problems. Normally available only to third and fourth year students who are in Honours Psychology or who are Psychology Majors and have completed one of: both PSYC 2250 and PSYC 2260, or both PSYC 2251 and PSYC 2261, or the former PSYC 2300. A student may not hold credit for more than two of: PSYC 3520, PSYC 3560, PSYC 3590. Prerequisite: prearranged written consent of an individual instructor and written consent of department head.

PSYC 3610 Memory Cr. Hrs. 3

Selected topics in human memory are reviewed, including the physiological and chemical bases for learning and memory, primary determinants of forgetting, memory models, nonverbal memory, organization in memory, and the use of mnemonic schemes to improve memory. Prerequisite: [a grade of "C" or better in PSYC 2480 or PSYC 2481] or written consent of department head.

PSYC 3630 Psychological Measurement and Assessment Cr. Hrs. 3

A study of the basic concepts of measurement in psychology and the application of these concepts in selected areas of psychology. The principal topics of the course will be historical foundations, basic concepts such as reliability, validity, and invariance, the use of different tests and instruments, scaling, and the unique aspects of measurement encountered in different areas of psychology. Students may not hold credit for both PSYC 3630 and PSYC 3631. Prerequisite: [a grade of "B" or better in PSYC 2260 or PSYC 2261 or the former PSYC 2300] and written consent of department head.

PSYC 3650 Introduction to Clinical Psychology Cr. Hrs. 3

Clinical psychology is presented as both a scientific and an applied discipline. Such topics as assessment, intervention, research, and professional issues are covered. Prerequisite: [a grade of "C" or better in PSYC 2490 or PSYC 2491 or the former PSYC 3460 or PSYC 3461] or written consent of department head.

PSYC 3860 Child Language Development Cr. Hrs. 3

The study of first language acquisition from infancy through childhood. Aspects of phonology, morphology, pragmatics and syntax acquisition are discussed, as well as formal theories of acquisition, second language and bilingual acquisition, atypical development and the relationship of language acquisition with literacy. Also offered as LING 3860. Students may not hold credit for PSYC 3860 and any of: LING 3860 or the former PSYC 2860 or the former LING 2860. Prerequisite: [a grade of "C" or better in PSYC 2290 or PSYC 2291] or [a grade of "C" or better in 9 credit hours of Linguistics courses] or written consent of department head.

8.25.3 Psychology Course Descriptions-4000 Level

PSYC 4370 Brain Plasticity Cr. Hrs. 3

The course will feature the relationship between the brain and experience. Brain plasticity refers to the ability of the brain to change its structure and function. Experience, which includes development, learning, and damage, is a major cause of plasticity in all organisms. Students will be exposed to theories on how much plasticity is possible, how it can be measured, how it can be used, and whether it can be enhanced. Students may not hold credit for both PSYC 4370 and PSYC 4540 when titled "Brain Plasticity." Prerequisite: [a grade of "C" or better in PSYC 2360 or PSYC 2361] and written consent of department head.

PSYC 4400 Theories of Close Relationships Cr. Hrs. 3

Students will be exposed to theories that apply to the initiation, development, maintenance, and dissolution of relationships. The primary focus will be on evolutionary theory, attachment styles, communal and exchange relationships, equity theory, interdependence theory and the investment model, attributional theories, and theories of love. Students may not hold credit for both PSYC 4400 and PSYC 4540 with the topic "Theories of Close Relationships." Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] and written consent of department head.

PSYC 4410 Cross-cultural Social Psychology Cr. Hrs. 3

Cross-cultural psychology is the critical and comparative study of the linkages between cultural norms and thoughts, feeling and behaviour. This course focuses on Cross-cultural Social Psychology. Therefore the assigned readings deal with topics that Social Psychology, in general, examines. Students may not hold credit for both PSYC 4410 and PSYC 4540 with the topic "Cross-cultural Social Psychology." Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former

PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] and written consent of department head.

PSYC 4420 Neuroimaging: Imaging Thoughts Cr. Hrs. 3

This course will explore how neuroimaging can illuminate our models of various aspects of cognition, including attention, vision, language, memory and learning, executive functions, emotion and various neuropathologies. Students may not hold credit for both PSYC 4420 and PSYC 4540 with the topic "Imaging Thoughts." Prerequisite: written consent of department head.

PSYC 4430 Vision: Perception and Action Cr. Hrs. 3

An intensive review of current research and theories in visual processes. Both behavioural and physiological aspects of vision will be considered. Course goals are directed at offering a better understanding of visual perception and the visual control of action. Students may not hold credit for both PSYC 4430 and PSYC 4540 with the topic "Vision Science." Prerequisite: written consent of department head.

PSYC 4440 Readings in Autism Spectrum Disorders Cr. Hrs. 3

Students will read recent research in Autism Spectrum Disorders, acquire skills to critically evaluate empirical evidence, and examine implications for practice. Among the topics covered will be assessment, diagnosis, epidemiology, and applied behaviour analysis early intervention. Students may not hold credit for both PSYC 4440 and PSYC 4540 with the topic "Autism Spectrum Disorders." Prerequisite: written consent of department head.

PSYC 4450 Animal Behaviour 1 Cr. Hrs. 3

The nature-nurture controversy will be discussed, followed by a survey of the diverse behaviours relating to the physical environment (e.g., food storage); predation (e.g. trapping); defence (e.g., camouflage); and migration. Prerequisite: written consent of department head.

PSYC 4460 Animal Behaviour 2 Cr. Hrs. 3

A more detailed analysis of selected topics including communication, animal populations, and the social use of space in humans and infrahumans. Prerequisite: written consent of department head.

PSYC 4490 Comparative Psychology Cr. Hrs. 3

A survey of similarities and differences of behaviour at various phylogenetic levels. Topics include evolution, genetics, sensory processes, neuropsychology, learning processes, and social behaviour. Prerequisite: written consent of department head.

PSYC 4492 Psychology of Addiction Cr. Hrs. 3

This course will introduce the psychology of addictive disorders, including their history, prevalence and incidence, and basic drug actions. It will also survey research on biological, psychological, and social factors that contribute to the development and maintenance of addictive disorders. Students may not hold credit for both PSYC 4492 and PSYC 4540 when titled "Introduction to the Psychology of Addiction." Prerequisite: written consent of department head.

PSYC 4510 Applied Behaviour Analysis in Developmental Disabilities Cr. Hrs. 3

Students will read recent applied behaviour analytic research in behavioural assessments and interventions for people with developmental disabilities, acquire skills to critically evaluate empirical evidence, and examine implications for practice. Students may not hold credit for both

PSYC 4510 and PSYC 4540 with the topic "Research in Developmental Disabilities." Prerequisite: written consent of department head.

PSYC 4520 Honours Research Seminar Cr. Hrs. 6

In first term there will be an examination of important experimental issues, and several experimental assignments. In addition, each student will propose a research project of greater scope to be conducted under the supervision of a Psychology staff member. In second term, students will carry out their projects and report their findings. Prerequisite: [90 credit hours towards honours program, including a grade of "C" or better in PSYC 3200, and three credit hours in PSYC 3340 or PSYC 3341 or the former PSYC 4570, and three credit hours in PSYC 3630 or PSYC 3631 or the former PSYC 4500] and written consent of department head.

PSYC 4540 Contemporary Issues 1 Cr. Hrs. 3

Course content may vary from year to year, but in general it will entail either some specific topic of prominent interest in psychology or a psychological analysis of some problem of current public interest. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PSYC 4560 Health Psychology Cr. Hrs. 3

This course focuses on understanding how psychological factors contribute to the promotion and maintenance of good health, to the prevention and treatment of illness, and to recovery from or adjustment to existing illness. Prerequisite: written consent of department head.

PSYC 4562 Social Psychology and Health Cr. Hrs. 3

This course uses theories and concepts from social/personality psychology to gain a better appreciation of what health is and how to achieve it, at the individual and population levels. Students may not hold credit for both PSYC 4562 and PSYC 4540 with the topic "Social Psychology and Health." Prerequisite: [a grade of "C" or better in one of: PSYC 2530 or PSYC 2531 or PSYC 2540 or PSYC 2541 or PSYC 3130 or PSYC 3131 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421 or the former PSYC 3450 or the former PSYC 3451] and written consent of department head.

PSYC 4564 Self-regulation and Health Cr. Hrs. 3

This course examines how self-regulatory processes such as goal-setting and self-awareness can affect behaviours that promote or undermine human health. A wide range of health-related behaviours is considered such as smoking, exercise, safe-sex practices, and eating. Students may not hold credit for both PSYC 4564 and PSYC 4540 with the topic "Self-regulation and Health." Prerequisite: written consent of department head.

PSYC 4566 Psychology of Health and Aging Cr. Hrs. 3

This course considers how adults adapt to the challenges of aging and the accompanying health problems. Seminar discussions will focus on selected psychological theories and related empirical literature regarding belief systems that operate in the face of health- and age-related challenges. Students may not hold credit for both PSYC 4566 and PSYC 4540 with the topic "Health and Aging." Prerequisite: written consent of department head.

PSYC 4580 Elements of Behavioural Pharmacology Cr. Hrs. 3

Data and theories related to psychoactive agents are introduced, with emphasis on therapeutic drug classes, drugs of abuse, and methodological issues in drug research. The focus is on the behavioural analysis of drug action, but a neuropharmacological analysis is developed where it has a

firm relationship to the behavioural analysis. Prerequisite: written consent of department head.

PSYC 4600 Selected Topics in Developmental Psychology Cr. Hrs. 3

The specific content of this course will vary from year to year. A description of the course is available in advance at the Psychology general office. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

PSYC 4610 Social Cognition Cr. Hrs. 3

Focus on the processes determining how people perceive themselves and others in their social world. From topics such as causal attribution, psychological control, person memory, and social inference, the course will address selected issues from theoretical and empirical perspectives. Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] and written consent of department head.

PSYC 4620 Community Mental Health Cr. Hrs. 3

A seminar covering contemporary issues in community mental health and their relation to psychological services. Topics include the history of the community mental health movement, de-institutionalization as a social policy, the etiology and epidemiology of mental disorders, recognition of and response to mental disorders, mental health systems, community-based mental health services, and prevention of mental disorders. Students may not hold credit for both PSYC 4620 and PSYC 4540 offered as Community Mental Health. Prerequisite: written consent of department head.

PSYC 4630 Behavioural Endocrinology Cr. Hrs. 3

A comparative approach is adopted to examine how hormones influence a diversity of behaviours through their actions on brain function, the physiological substrates of the behaviours, and their development as evolutionary adaptations. Techniques used by behavioural neuroscientists to study the behavioural and neuroendocrine interactions are surveyed. Prerequisite: [a grade of "C" or better in PSYC 3350 or PSYC 3351 or the former PSYC 3330 or the former PSYC 3331] and written consent of department head.

PSYC 4640 Person X Situation Interactionism Cr. Hrs. 3

We will first explore research demonstrating the impact of personality and situations, separately, on behaviour. We then examine the debate that arose about whether understanding the person or situation would have the most scientific merit. We spend the remainder (and the majority) of the course discussing the theories and research that arose from that debate. The majority of this research has an interactionist perspective, taking both the person and his/her situation into account. Students may not hold credit for both PSYC 4640 and PSYC 4540 with the topic "Person X Situation Interactionism." Prerequisite: written consent of department head.

PSYC 4650 The Self and Social Perception Cr. Hrs. 3

This course examines: 1) bases of self-knowledge such as social comparison, feedback from others, and introspection, 2) recent perspectives on the nature of the self-concept and self-presentation, and 3) motivational and cognitive mechanisms guiding self-relevant information processing. Students may not hold credit for both PSYC 4650 and the former PSYC 4590 when titled "Self and Social Perception." Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former

PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] and written consent of department head.

PSYC 4660 Intergroup Relations Cr. Hrs. 3

This course examines intergroup relations from a social psychological perspective. Key topics include sources of prejudice and discrimination, the "target's" perspective, and strategies for reducing prejudice and discrimination. Students may not hold credit for both PSYC 4660 and PSYC 4540 when titled "Intergroup Relations." Prerequisite: [a grade of "C" or better in PSYC 2540 or PSYC 2541 or the former PSYC 2410 or the former PSYC 2411 or the former PSYC 2420 or the former PSYC 2421] and written consent of department head.

8.26 Department of Religion

Head: Ian Whicher
 Campus Address/General Office: 328 Fletcher Argue Building
 Telephone: 204 474 9516
 Email Address: religion@umanitoba.ca
 Website: umanitoba.ca/religion

8.26.1 Program Information

We are a world religions department. Our approach is interdisciplinary and engages a wide range of human activity commonly deemed "religious," seeking to understand how religions function, how religious discourse evolves, why certain religious perspectives gain prominence and how they are contested. We research and teach about a range of religions, past and present, from around the world, investigating the languages, ethical systems, practices, organizations, and institutions within which such religions are defined, refined, rejected, or renewed. Given the diversity of this study, such theoretical and methodological questions are viewed as central to the coherence of our courses, programs, and fields.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours in Religion. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours in Religion.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Other

In addition to courses numbered at the 1000-level, the Department of Religion offers a number of upper-level courses for which there are prerequisites; see course descriptions.

It is not necessary for students to enter the offerings in Religion by way of courses numbered at the 1000-level. Students in any year or program may

register for any course in Religion provided they satisfy course and program prerequisites. With written permission of the department head students may take courses numbered at the 4000-level.

In cooperation with St. Paul's College, the Department of Religion offers an arrangement of courses with special emphasis in Catholic studies as an option for students intending to Major or Minor in Religion. This special emphasis involves completing course RLGN 2850 Contemporary Issues in Roman Catholicism and selecting relevant courses offered in the Faculty of Arts and the School of Art. Contact the Department of Religion prior to registration in order to select appropriate courses.

8.26.2 Religion

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours in Religion courses | <ul style="list-style-type: none"> 6 credit hours in Religion courses numbered at the 3000 level (with written consent of the department head, students are permitted to substitute Honours courses in the Major) 18 credit hours in Religion courses | | |
| <ul style="list-style-type: none"> Within the courses required above, only 12 credit hours are permitted to be numbered at the 1000 level Within the courses required above, students must complete courses from at least two religious traditions: Buddhism, Christianity, Hinduism, Islam, Judaism¹ | | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| 6 credit hours in Religion courses | <ul style="list-style-type: none"> 12 credit hours in Religion courses numbered at the 4000 level (with written consent of the department head, students may be permitted to substitute courses numbered at the 3000 level) 30 credit hours in Religion courses | | |
| <ul style="list-style-type: none"> Within the courses required above, only 12 credit hours are permitted to be numbered at the 1000 level Within the courses required above, students must complete courses from at least three religious traditions: Buddhism, Christianity, Hinduism, Islam, Judaism¹ | | | |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| 6 credit hours in Religion courses | 6 credit hours in Religion courses | 6 credit hours in Religion courses | |
| Within the courses required above, only 12 credit hours are permitted to be numbered at the 1000 level | | | |
| SINGLE HONOURS⁴ | | | |
| 6 credit hours in Religion courses | <ul style="list-style-type: none"> 18 credit hours in Religion courses numbered at the 2000 level 12 credit hours in ancillary options² | <ul style="list-style-type: none"> 12 credit hours in Religion courses numbered at the 3000 level 18 credit hours in Religion courses numbered at the 4000 level RLGN 4310, RLGN 4320 12 credit hours in free options³ 12 credit hours in ancillary options² | |

| | | |
|---|---|--|
| Within the courses required above, students must complete courses from at least three religious traditions: Buddhism, Christianity, Hinduism, Islam, Judaism ¹ | | |
| DOUBLE HONOURS⁴ | | |
| 6 credit hours in Religion courses | <ul style="list-style-type: none"> • 12 credit hours in Religion courses numbered at the 2000 level • 6 credit hours in ancillary options² • 12 credit hours in other Honours field | <ul style="list-style-type: none"> • 6 credit hours in Religion courses numbered at the 3000 level • 12 credit hours in Religion courses numbered at the 4000 level • RLGN 4310, RLGN 4320 • 12 credit hours in free options³ • 24 credit hours in other Honours field |
| Within the courses required above, students must complete courses from at least three religious traditions: Buddhism, Christianity, Hinduism, Islam, Judaism ¹ | | |
| NOTES: | | |
| ¹ Religious traditions are categorized as follows: | | |
| Buddhism includes: RLGN 2020, RLGN 3150, RLGN 3260, RLGN 3266, RLGN 4100. | | |
| Christianity includes: RLGN 1350, RLGN 2036, RLGN 2040, RLGN 2050, RLGN 2170, RLGN 2520, RLGN 2530, RLGN 2550, RLGN 2560, RLGN 2840, RLGN 2850, RLGN 3200, RLGN 3230, RLGN 3240, RLGN 3870, RLGN 4200, RLGN 4280, RLGN 4282. | | |
| Hinduism includes: RLGN 2010, RLGN 3210, RLGN 4060, RLGN 4190. | | |
| Islam includes: RLGN 2100, RLGN 2780, RLGN 2790, RLGN 3190, RLGN 3194, RLGN 4180. | | |
| Judaism includes: RLGN 1120, RLGN 1390, RLGN 1400, RLGN 2140, RLGN 2160, RLGN 2730, RLGN 2760, RLGN 2770, RLGN 3280, RLGN 3800, RLGN 3810, RLGN 3824. | | |
| ² Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Religion courses). | | |
| ³ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Religion courses). | | |
| ⁴ Honours courses: all 4000 level courses. | | |

8.26.3 Religion Course Descriptions-1000 Level**RLGN 1120 Biblical Hebrew Cr. Hrs. 6**

An introductory course with emphasis on basic grammar and syntax. Students will learn to read simple biblical narratives. (Not acceptable for credit towards a Major or Minor in Religion.) Students may not hold credit for RLGN 1120 and any of: HEB 1120 or the former SEM 1120.

RLGN 1322 Introduction to Eastern Religions Cr. Hrs. 3

This course provides a general introduction to the origins, central teachings and practice, key developments and contemporary expressions of Hinduism, Buddhism, Taoism, and Confucianism. Students may not hold credit for RLGN 1322 and any of: RLGN 1323 or the former RLGN 1320 or the former RLGN 1321.

RLGN 1324 Introduction to Western Religions Cr. Hrs. 3

This course provides a general introduction to the origins, central teachings and practice, key developments and contemporary expressions of Judaism, Christianity, and Islam. Students may not hold credit for RLGN 1324 and any of: RLGN 1325 or the former RLGN 1320 or the former RLGN 1321.

RLGN 1350 The History of Eastern Christianity Cr. Hrs. 6

This course examines the general history of Eastern Christianity. It studies the doctrines and organization of the churches, their spirit and attitude to church unity.

RLGN 1390 Readings in Biblical Hebrew 1 Cr. Hrs. 3

Reading and translation of selected prose portions of the Hebrew Bible. Vocabulary building and review of basic Hebrew grammar. Prerequisite: [a grade of "C" or better in RLGN 1120 or HEB 1120 or the former SEM 1120] or written consent of instructor or department head.

RLGN 1400 Readings in Biblical Hebrew 2 Cr. Hrs. 3

Reading and translation of selected poetic portions of the Hebrew Bible. Vocabulary building and advanced grammar. Prerequisite: [a grade of "C" or better in RLGN 1390] or written consent of instructor or department head.

RLGN 1410 Death and Concepts of the Future Cr. Hrs. 3

The course investigates theories, images, and rituals of death, dying and the afterlife in selected world religions.

RLGN 1420 Ethics in World Religions Cr. Hrs. 3

Examination of the ethical teachings of world religious traditions. Attention will be given to such questions as the nature of the good or virtue, the place of law or commandments, the relationship between religion and morality, the concepts of moral community and the moral self. Students may not hold credit for both RLGN 1420 and RLGN 1421.

RLGN 1424 Religion and Sexuality Cr. Hrs. 3

An introduction to world religions through the lens of sexuality, exploring how sexual desires and practices are celebrated, regulated, imagined and constructed in different religions. Topics may include pleasure, procreation, sexual and gender identities, marriage, asceticism, erotic imagery of divine beings and divine-human relations.

RLGN 1430 Food: Religious Concepts and Practices Cr. Hrs. 3

This course explores the cultural (communal and social) dimensions of the major world religions through examination of food concepts and practices. Topics studied include: food symbols and rituals in the theory of religion; food proscription and endorsements ("dietary laws"); food in ritual time and space ("menus" and "liturgies"); concepts of plenty and concepts of dearth (ethics of food distribution); food and communication; food and gender/food and the body; feasting and fasting; food, religion and "consumer culture."

RLGN 1440 Evil in World Religions Cr. Hrs. 3

The course introduces students to perspectives on evil in selected world religions.

RLGN 1450 Religion and the Media Cr. Hrs. 3

This course investigates representations of religion in popular media. Through study of a range of media, from newspapers to the internet, the course explores cultural stereotypes about religion, asking how religions are represented, and how they represent themselves, in popular culture.

8.26.3 Religion Course Descriptions-2000 Level**RLGN 2010 Introduction to Hinduism Cr. Hrs. 3**

An overview of the rich and multi-faceted tradition of Hinduism, dealing with its history and development from ancient to modern times. Students may not hold credit for both RLGN 2010 and the former RLGN 2860.

RLGN 2020 Introduction to Buddhism Cr. Hrs. 3

A general introduction to the beliefs, practices, and history of the main forms of Buddhism, including Indian Buddhism, Tibetan Buddhism, and

Zen. Students may not hold credit for both RLG 2020 and the former RLG 2830.

RLGN 2030 Psychology and Religion Cr. Hrs. 3

An examination of selected modern and contemporary psychology and religion interactions. Students may not hold credit for both RLG 2030 and the former RLG 2211.

RLGN 2036 Introduction to Christianity Cr. Hrs. 3

This course provides an introduction to the history of Christianity from its earliest beginnings to the present. It will also focus on Christianity's main ideas and practices. Students will also be introduced to key concepts and debates in the study of religion using Christianity as a test case.

RLGN 2040 Early Modern/Modern Christianity Cr. Hrs. 3

A chronological survey of Christian practices and teachings from 1500-1900. This course examines dimensions of the "modernization" of Western Christianity, giving particular emphasis to the Protestant and Catholic Reformations, including changes in ritual practice, major theological and other doctrinal disputes, social formations, "elite" and "popular" religion, institutional developments, artistic and literary production. These will be considered in the larger context of the development of "national" churches and the complicated role of Christian ideas and institutions in colonial enterprises, with attention given both to propagation of Western Christianity and its establishment as a "world religion", and to particular local varieties and conditions of Western Christianity.

RLGN 2050 Modern and Contemporary Christianity Cr. Hrs. 3

A survey of 20th century Christianity. The course will include an examination of the changing religious, social, and political practices and institutional forms of Christianity since 1900.

RLGN 2060 Religion and Violence Cr. Hrs. 3

Violence of many kinds - physical and non-physical, by and against individuals, within and amongst religious groups - plays an integral role in all religious traditions and systems. This course explores this role within the framework of an historical approach to world religions. Themes covered may include: theories of religion and violence; sacrifice; martyrdom; symbolic violence; iconoclasm; blasphemy; heterodoxy and discipline; religious toleration; religious warfare; religion and cultural resistance; religion and domestic violence; religion and non-violence.

RLGN 2072 Storytelling and Religion Cr. Hrs. 3

Description Storytelling is a way of making sense of, and transforming, the world: so is religion. This course explores story, imagination, and performance in the context of religion and spirituality. Course work may involve textual study, writing, and the practice of storytelling. Students may not hold credit for both RLG 2072 and the former RLG 3850.

RLGN 2090 Issues in Science and Religion Cr. Hrs. 3

A consideration of some of the major issues arising from the intersection of the concepts and interests of the natural sciences with those of the religions of the world.

RLGN 2100 Approaches to the Qur'an Cr. Hrs. 3

An introduction to the main features, structure, and contents of the Qur'an as a text and to the manifold ways it has been received, understood, and interpreted by Muslims for over 1400 years.

RLGN 2110 Religion and Healing Cr. Hrs. 3

A study of concepts of illness, health and healing, of therapeutic rituals, and of healing figures, in selected world religions.

RLGN 2112 Medicine, Magic, and Miracle in the Ancient World Cr. Hrs. 3

This course introduces students to the world of healing in antiquity. It explores the full range of healing options available to people in the ancient world from approximately 500 BCE to 500 CE, focusing in particular in the Greek and Roman Mediterranean. This range includes professional medicine and its many kinds of practitioners and sub-specialists, religious forms of healing, popular or folk remedies, and more "magical" approaches to healing such as spells, amulets, and other forms of as hoc rituals. Furthermore, it presents students with evidence for the practices and social settings of ancient healthcare. This evidence includes medical and pharmacological texts, accounts of miraculous healing, manuals of natural science, ancient "magical" texts, as well as archaeological evidence such as site maps of healing shrines, votives, amulets, medical instrumentation, human remains, and inscriptions.

RLGN 2120 Problems of Faith and Reason Cr. Hrs. 3

An historical and critical study of selected attempts to solve problems concerning the relationship between religious faith and natural reason. Students may not hold credit for both RLG 2120 and the former RLG 2630.

RLGN 2130 Religion and Dance Cr. Hrs. 3

An examination of the role of movement and dance in world religions and of attempts to establish a theoretical framework for the study of movement within the discipline.

RLGN 2140 Introduction to Judaism Cr. Hrs. 3

An exploration of Jewish religious experience: the rhythms of time, the sensory life, sacred texts, collective memory, rules and resistance to rules. The course will introduce Jewish ways of learning, and consider Judaism as a test case for concepts in religious studies, including "religion" itself.

RLGN 2160 Introduction to the Hebrew Scriptures Cr. Hrs. 3

An introduction to the historical and critical study of the writings of the "Old Testament," the Hebrew Scriptures. Students may not hold credit for both RLG 2160 and RLG 2161.

RLGN 2170 Introduction to the New Testament Cr. Hrs. 3

An introduction to the historical and critical study of the Christian "New Testament." Students may not hold credit for both RLG 2170 and RLG 2171.

RLGN 2180 Theory of Nature Cr. Hrs. 3

While the content of this course will vary year-to-year, its constant purpose will be to introduce students to some of the many ways in which "nature" has been theorized. The course will explore historical and cultural contexts in which selected theories of nature have developed. It will also explore implications of different theories of nature for environmental ethics.

RLGN 2222 The Supernatural in Popular Culture Cr. Hrs. 3

This course provides a survey of the supernatural, superhuman, and paranormal in popular culture, focusing on non-institutionalized forms of religious thought and practice as well as in the popular media (comic books, movies, music, fantasy and science fiction novels, television). Topics may include phenomena such as divination, ghosts, and speaking with the dead as well as fascination with apocalypses, superheroes, time travel, vampires, and zombies. Emphasis will be given to religious expressions not usually recognized as "religious."

RLGN 2520 Eastern Christianity in North America Cr. Hrs. 3

A survey of the history and institutions of the major Eastern Christian bodies in North America. Particular reference will be made to the sociological and economic problems, the question of identity and survival, the problem of unity. Prerequisite: [a grade of "C" or better in RLG 1350] or written consent of department head.

RLGN 2530 Eastern Christianity in the Contemporary World**Cr. Hrs. 3**

A study of some modern-day problems such as: politics, nationalism, geography, culture, secularization, and the question of unity. Particular reference will be made to the problem of the church in Eastern Europe. Prerequisite: [a grade of "C" or better in RLGN 1350] or written consent of department head.

RLGN 2550 History of Early Christian Thought**Cr. Hrs. 3**

Christian thought from the second century to Augustine.

RLGN 2560 History of Medieval Christian Thought**Cr. Hrs. 3**

Christian thought from Augustine to the end of the medieval period.

RLGN 2570 Indian Religious Art and Architecture**Cr. Hrs. 3**

A survey of Major periods and themes in Indian art and architecture (Buddhist, Jain, Hindu); iconography, temples, canons of Indian art; life of Buddha, Rama-cycle and Krsna-complex; socioeconomic background.

RLGN 2590 Religion and Social Issues**Cr. Hrs. 3**

The course examines selected ethical-social issues such as abortion, euthanasia, new genetic and reproductive technologies, and environmental and ecological issues, with reference to one or more of the world's religious traditions. Students may not hold credit for both RLGN 2590 and RLGN 2591.

RLGN 2610 Animals and Ethics**Cr. Hrs. 3**

This course surveys the emerging field of "critical animal studies." The course centers on questions of human and nonhuman animal difference as these have been debated in a number of religious and cultural traditions. It also engages traditional and contemporary approaches to animal ethics. Discussions will also focus on such pressing issues as global warming, species extinction, loss of biodiversity, pollution, and threats to population health – all of which can be traced to multinational industrialized breeding and marketing of animals and/or of experimentally developed animal "biocapital." Students may not hold credit for both RLGN 2610 and the former RLGN 2600.

RLGN 2680 Women and Religion 1**Cr. Hrs. 3**

Content of this course may vary from year to year. It will address, through contemporary interpretive models, topics of current and ongoing interest in relation to the understanding and role of women in the world's religious traditions. Students may not hold credit for both RLGN 2680 and RLGN 2681.

RLGN 2690 Women and Religion 2**Cr. Hrs. 3**

Content of this course may vary from year to year. It will address, through contemporary interpretive models, topics of current and ongoing interest in relation to the understanding and role of women in the world's religious traditions.

RLGN 2700 Religions of China and Japan**Cr. Hrs. 6**

A study of the history, teachings and developments of Confucianism, Taoism, Shinto and Buddhism in China and Japan from their beginning to the present.

RLGN 2730 Jews and Judaism in Antiquity**Cr. Hrs. 3**

The study of the Jewish people and their civilization from its origins in the ancient Near East to the completion of the Hebrew Bible and the redaction of the Talmud.

RLGN 2760 Rabbinic Judaism**Cr. Hrs. 3**

A study of the development of classical rabbinic Judaism from its roots in the Hebrew Bible and the Talmud to the end of the 18th century. Talmud,

Law, Mysticism, Theology and Biblical Exegesis are some of the subjects examined.

RLGN 2770 Contemporary Judaism**Cr. Hrs. 3**

A study of contemporary denominational Judaism and its origins in the classical rabbinic tradition. The focus will be on the denominations active in North America.

RLGN 2780 Classical Islam**Cr. Hrs. 3**

An examination of the formation, development and expression of classical Islam. Emphasis is placed on the life and teachings of the Prophet Muhammad, the Qur'an, the Sunna, and the Shi'schism.

RLGN 2790 Contemporary Islam**Cr. Hrs. 3**

A study of the responses of Islamic communities to the pressures of the modern world. Special note will be taken of the relation between Islam and power.

RLGN 2840 The Second Vatican Council**Cr. Hrs. 3**

An historical and theological analysis of the Second Vatican Council, beginning with the situation of the Roman Catholic Church subsequent to the French Revolution. The course will include study of major Vatican II documents. Particular attention will be given to the legacy of Vatican II and to assessment of the Council's impact on the life of the Roman Catholic Church.

RLGN 2850 Contemporary Issues in Roman Catholicism**Cr. Hrs. 3**

A survey of major movements, thinkers, debates and issues in twentieth-century post-Vatican II Roman Catholicism. Particular attention will be given to the following: magisterium and dissent, social justice, women in the church, ecumenical and inter-religious dialogue, and emergent theologies.

8.26.3 Religion Course Descriptions-3000 Level**RLGN 3100 Rituals of Death and Mourning****Cr. Hrs. 3**

An exploration of the ritual dimensions of death and mourning in selected religious traditions, including such topics as: burial rites, cremation, funeral ceremonies, gender and mourning, grave goods and grave markers, lamentation and social protest, mortuary practices.

RLGN 3110 Issues in the Study of Religion and Evil**Cr. Hrs. 3**

An examination of the construction of evil in discourse and ritual, including such topics as: purity and pollution; social boundaries and identity; norms of conformity and non-conformity; institutions of power and authority; morality and evil.

RLGN 3120 Religion and Bioethics**Cr. Hrs. 3**

An examination of theoretical and practical bioethical issues and how these are engaged by various religious traditions.

RLGN 3130 Religion and Modern Thought**Cr. Hrs. 3**

The idea that religion is a distinct and unique aspect of human activity is a defining feature of modern thought. This course explores aspects of this understanding of religion in various modern intellectual movements from the sixteenth century to the nineteenth century, considering these movements in their particular historical contexts. Topics covered may include: skepticism, northern humanism, religion and European expansion, atheism, religion and the nation state, religion and early modern science, enlightenment, religion and bourgeoisie, imperialism, religion and revolution, religion and evolution. Students may not hold credit for RLGN 3130 and any of: RLGN 3131 or RLGN 3251.

RLGN 3150 Buddhism in East Asia**Cr. Hrs. 3**

An examination of the history and teachings of Buddhism in China and Japan, giving particular attention to processes of adaptation and transformation within the East Asian context.

RLGN 3160 Tibetan Religious Traditions Cr. Hrs. 3

A study of the religious traditions, particularly Buddhism, that have developed from antiquity in Tibet. Students may not hold credit for both RLGN 3160 and the former 020.374.

RLGN 3170 Eastern Religions in the West Cr. Hrs. 3

This course considers historical Western interactions with, and representations of, Asian religious traditions. Students may not hold credit for both RLGN 3170 and the former 020.374.

RLGN 3190 Images of the Prophet Muhammad: Classical and Contemporary Perspectives Cr. Hrs. 3

This course addresses the central place of the Prophet Muhammad in Muslim life and religious practice. It examines sources for the life of Muhammad, considers the Prophet as a model of piety, and gives careful attention to methodological approaches to the study of Islam.

RLGN 3194 Islamic Philosophy Cr. Hrs. 3

This course explores the history of Islamic philosophy (falsafa) from the translation movement of Greek philosophical, scientific and medical texts under the Abbasid dynasty (8-9th Centuries), until the golden age of interdisciplinary intellectual, scientific and theological debates in the post-classical period of Islamic intellectual history.

RLGN 3200 Paul and the Letters Cr. Hrs. 3

A study of Paul of Tarsus and his writings, this course will address topics pertaining to the historical Paul, the Pauline and deuter-Pauline letters, the social history of Pauline communities, and approaches to the study of Paul and his communities. Students may not hold credit for both RLGN 3200 and the former RLGN 3770. Prerequisite: written consent of instructor or department head.

RLGN 3210 Indian Philosophy Cr. Hrs. 3

This course introduces some of the main philosophical schools of Hindu and Buddhist thought, emphasizing the living history of interaction and debate between the various traditions.

RLGN 3220 Indian Religion and Society Cr. Hrs. 3

This course investigates selected topics in religion and society in the region of the Indian sub-continent. Topics will vary from year to year, ranging from a focus on marriage to a study of Buddhist monks and the politics of civil war in Sri Lanka.

RLGN 3230 Gender in Early Christianity Cr. Hrs. 3

This course examines the light shed by ancient writings on the role(s) of women in ancient Christian groups, and on the ideologies of gender promoted or assumed by these groups. Thus the focus, while predominately on women, will extend to the way in which gender identities were constructed and adhered to by males and females in early Christianity.

RLGN 3240 Jesus and the Gospel Writings Cr. Hrs. 3

The aim of this course is to develop a sophisticated understanding of the New Testament Gospels and their sources, and the ideas these writings were intended to communicate; also to reconstruct the outlines of a history of the earliest traditions about Jesus based on the analysis of these writings.

RLGN 3260 Indian Buddhism Cr. Hrs. 3

A thematic and historical study of Indian Buddhism from its origin to its disappearance. Topics covered include early Buddhism, Buddhist doctrine and philosophy, and the development of Mahāyāna and Vajrayāna.

RLGN 3266 Readings in Buddhist Texts Cr. Hrs. 3

This is a course intended for students who have completed RLGN 2020 Introduction to Buddhism, and are interested in pursuing a more in-depth study of Buddhism. Following a discussion format, we will investigate Buddhist texts and ethnographic case studies and material from a range of traditions and historical periods. Prerequisite: [a grade of "C" or better in RLGN 2020] or written consent of instructor.

RLGN 3270 Guru and Disciple Cr. Hrs. 3

A study of the role of the guru in India, and of the dynamic of guru and disciple, utilizing traditional Hindu sources as well as contemporary writings.

RLGN 3280 Hasidism Cr. Hrs. 3

Hasidic Jews, known for their tales, melodies, distinctive garb and strict traditionalism, belong to one of the most successful modern Jewish religious movements. This course explores Hasidism, from its origins in eighteenth-century Ukraine to the present, through its own stories and spiritual teachings as well as scholarly perspectives.

RLGN 3290 Self-Transformation in Religion and Philosophy Cr. Hrs. 3

This course examines contemporary expressions of spiritual exercises by tracing their traditions across an array of western religious and philosophical schools. The course explores themes of death, asceticism, aestheticism, everydayness and community. In particular, it explores how dialogue, reading, and writing have constituted tools for the cultivation of mental, physical and emotional states leading to self-transformation. Also offered as PHIL 3290. May not be held with PHIL 3290.

RLGN 3400 Zionism: Religious Perspectives Cr. Hrs. 3

Zionism is a modern political and social movement which has a close but ambivalent relationship with the Jewish religious tradition. This course will explore topics such as secular adaptations of religious motifs; religious critiques of Zionism; religious Zionism as a new form of Judaism; and Christian approaches to Zionism and the State of Israel.

RLGN 3530 Contemporary Issues 1 Cr. Hrs. 3

Content of this course will vary from year to year but it will deal with some specific topic of current interest in religion, some aspect of methodology in the study of religion, or an analysis from a religious perspective of some problem of current public interest. Students may not hold credit for both RLGN 3530 and RLGN 3531. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RLGN 3540 Contemporary Issues 2 Cr. Hrs. 3

Content of this course will vary from year to year but it will deal with some specific topic of current interest in religion, some aspect of methodology in the study of religion, or an analysis from a religious perspective of some problem of current public interest. Students may not hold credit for RLGN 3540 and RLGN 3541. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RLGN 3560 Texts in Original Languages Cr. Hrs. 3

The subject matter of this course will vary from year to year. It will give students the opportunity to study texts in languages other than English and to develop reading skills in those languages. The emphasis may be on language learning or on working with texts in a language already studied. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RLGN 3640 Religion in the Hellenistic and Roman Mediterranean Cr. Hrs. 3

This course explores the wide variety of religious traditions, practices, and beliefs of the Mediterranean region in the Hellenistic and Roman period (c. 300 BCE to 300 CE). This period is exemplified by a great deal of continuity, but it was also a time of experimentation, innovation, and cultural entrepreneurship. Also offered by Classics as CLAS 3670. Students may not hold credit for both RLGN 3640 and CLAS 3670.

RLGN 3750 Topics in Indian Religious Art and Architecture **Cr. Hrs. 3**

The course will focus on one or more of the religious dimensions of the following: selected motifs in Indian art, the art and architecture of a particular region or epoch, the theoretical assumptions underlying Indian art.

RLGN 3780 Selected New Testament Literature and Themes **Cr. Hrs. 6**

An intensive study of selected documents and/or themes from the New Testament. Prerequisite: [a grade of "C" or better in RLGN 2160 or RLGN 2161] and [a grade of "C" or better in RLGN 2170 or RLGN 2171] or written consent of instructor or department head.

RLGN 3800 Selected Old Testament Literature and Themes **Cr. Hrs. 6**

An intensive study of selected writings or themes of the Old Testament (the Tanach). Prerequisite: [a grade of "C" or better in RLGN 2160 or RLGN 2161] and [a grade of "C" or better in RLGN 2170 or RLGN 2171] or written consent of instructor or department head.

RLGN 3810 The Talmud **Cr. Hrs. 3**

The Talmud is as important as the Bible in Jewish life and thought. It is not simply a book to read; it has to be studied with other people. Students will learn the skills of studying this polyvocal text, and engage with scholarship on the Talmud's literary techniques, laws, folklore, gender politics, and theology. Students may not hold credit for both RLGN 3810 and the former RLGN 2150.

RLGN 3824 Kabbalah **Cr. Hrs. 3**

Kabbalah is a centuries-old stream of Jewish thought and practice which encompasses mysticism, ethics, spiritual practice and magic. Students will come away from this course with a working knowledge of the Zohar, the central text of Kabbalah, its radical theology and its mythical-symbolic mode of expression. The course also explores the influence of the Zohar within Judaism and beyond and related scholarly debates. Students may not hold credit for both RLGN 3824 and the former JUD 3390.

RLGN 3830 The Bible as Story **Cr. Hrs. 3**

A study of the manner in which biblical storytellers present their tales and the ways in which these narratives have been retold ever since. Particular attention will be paid to Midrash, the tradition of creative retelling of biblical tales. Students may not hold credit for both RLGN 3830 and the former RLGN 3840. Prerequisite: written consent of instructor or department head.

RLGN 3870 The Thought of Bernard Lonergan **Cr. Hrs. 3**

A study of the thought of the twentieth-century Canadian Jesuit, Bernard Lonergan, including his work on method in theology, on ways of knowing and on ethics.

8.26.3 Religion Course Descriptions-4000 Level

RLGN 4060 The Yoga Tradition **Cr. Hrs. 3**

This course explores the rich, diverse, and highly complex Yoga tradition, emphasizing classical and medieval forms of Yoga philosophy and practice within Hinduism. As well as tracing historical development of the Yoga tradition, the course highlights the meaning and purpose of Yoga in its

classical expression and considers the growing popularity and relevance of Yoga in the modern world. Prerequisite: written consent of department head.

RLGN 4080 Critical Theory and Religion **Cr. Hrs. 3**

An examination of the work of the Frankfurt School (Theodor Adorno, Max Horkheimer, and Herbert Marcuse) and Jürgen Habermas as it relates to the study of religion. Topics will include: the nature and scope of reason and enlightenment, disenchantment and modernity, ideology and ideology critique, and the separation of science, morality, and art. Prerequisite: written consent of department head.

RLGN 4100 Advanced Studies in Buddhism **Cr. Hrs. 3**

An in-depth study of selected topics from the wide cultural and historical range of Buddhist traditions. Prerequisite: written consent of department head.

RLGN 4110 Studies in Religion and Cultural Memory **Cr. Hrs. 3**

An examination of selected cultural memory and religion topics. Prerequisite: written consent of department head.

RLGN 4160 Religion and Philosophy **Cr. Hrs. 3**

An examination of the relation between philosophical and religious thought through in-depth study of a selected thinker or thinkers. Prerequisite: written consent of department head.

RLGN 4180 Advanced Studies in Islam **Cr. Hrs. 3**

An in-depth study of selected topics in Islamic philosophy and tradition. Prerequisite: written consent of department head.

RLGN 4190 Advanced Studies in Hinduism **Cr. Hrs. 3**

An in-depth study of selected topics in the philosophy, history, literature, and practices of Hinduism. Prerequisite: written consent of department head.

RLGN 4200 Early Christian Gnosticism **Cr. Hrs. 3**

This course constitutes a partial introduction to the historical and critical study of earliest Christianity and the writings of the Christian "New Testament." The main emphasis will lie on a study of the New Testament and contemporary writings that show strong mystical and Gnostic-leaning tendencies. Above all, the course will focus on the Gospel of Thomas, the Gospel of John, and other New Testament writings related to the Gospel of John. Prerequisite: written consent of the department head.

RLGN 4230 Studies in Body History **Cr. Hrs. 3**

A study in the religious-cultural history of the body, this course explores the multiple meanings given to the body, sexuality and sexual difference in historical and contemporary religious traditions. The course gives particular attention to theories of representation of body, and includes study of both written and performative sources. Prerequisite: written consent of the department head.

RLGN 4280 Advanced Studies in Christian Origins **Cr. Hrs. 3**

With content varying year to year, this course will engage topics pertaining to the first 300 years of Christianity. Theoretical and methodological issues will be considered, as will literary and archaeological data for the study of nascent Christianity. Prerequisite: written consent of instructor or department head.

RLGN 4290 Advanced Studies in Mysticism **Cr. Hrs. 3**

With religious traditions of focus varying year to year, this course considers current scholarly approaches to the understanding of mysticism and sainthood. It includes study of mystic texts and treatises; the mystic body; mystic communities; ascetic ritual and practice. Prerequisite: written consent of instructor or department head.

RLGN 4300 Advanced Topics in Judaism Cr. Hrs. 3

An in-depth study of selected Jewish texts from the fields of halakhah, aggadah or spirituality, drawing on various theoretical perspectives. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RLGN 4310 Method and Theory: History of the Study of Religion Cr. Hrs. 3

An intensive overview of the history of the study of religion, with an emphasis on developments starting in the 18th and the 19th centuries. The contributions of numerous disciplines will be discussed in relation to the political and historical contexts that shape and give rise to the "world religions" paradigm. In any given year, emphasis may be given to developments in a particular field (e.g., Buddhism, Christianity, Islam, Judaism, Hinduism, etc.). Prerequisite: written consent of department head.

RLGN 4320 Theoretical Approaches to the Study of Religion Cr. Hrs. 3

This course will engage theoretical approaches to the study of religion in its historical and contemporary cultural contexts. The course will follow a seminar format. Content of this course may vary from year to year, depending on the tradition(s) on which the course is focused (e.g., Buddhism, Islam, Hinduism, Judaism, Christianity). Prerequisite: written consent of department head.

RLGN 4430 Selected Topics in Religion 1 Cr. Hrs. 3

An intensive study of specially selected topics in the field of religion. The subject matter of the course will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

RLGN 4440 Selected Topics in Religion 2 Cr. Hrs. 3

An intensive study of specially selected topics in the field of religion. The subject matter of the course will vary from year to year. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

8.27 Department of Sociology and Criminology

Head: (Acting) Frank Cormier
Campus Address/General Office: 318B Isbister Building
Telephone: 204 474 9260
Email Address: sociology@umanitoba.ca
Website: umanitoba.ca/sociology

8.27.1 Sociology Program Information

Sociology examines the patterns of interaction among individuals and the group activity that emerges from such interaction. A basic premise is that social behaviour, and society itself, cannot be fully understood simply by studying the individuals involved. Sociology has a special interest in all those intermediate forms of association between the family and the state which together comprise much of the basis for social solidarity and cohesion. Whether individuals cooperate, compete, or fight is in large measure determined by forces outside themselves, by social forces that encourage or restrain their behaviour.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in SOC 1200 or a grade of "C" or better in both SOC 1211 and SOC 1221. For students who have taken additional courses toward the Major, then a

minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in SOC 1200 or a grade of "C" or better in both SOC 1211 and SOC 1221.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

8.27.2 Sociology

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---|--|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2220, SOC 2290 • one of SOC 3310, SOC 3330, SOC 3350, SOC 3360, SOC 3380, SOC 3390, SOC 3700 • 12 credit hours in Sociology courses numbered at the 2000 or 3000 level | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2220, SOC 2290 • 6 credit hours from SOC 3310, SOC 3330, SOC 3350, SOC 3360, SOC 3380, SOC 3390, SOC 3700 • 9 credit hours in Sociology courses numbered at the 2000 or 3000 level | | 18 credit hours in Sociology courses numbered at the 2000 or 3000 level |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | | | |
| SOC 1200 or SOC 1211 and SOC 1221 | 12 credit hours in Sociology courses numbered at the 2000 or 3000 level | | |
| SINGLE HONOURS³ | | | |
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2010, SOC 2220, SOC 2290 • 6 credit hours in Sociology • 12 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • 6 credit hours from SOC 3310, SOC 3330, SOC 3350, SOC 3360, SOC 3380, SOC 3390, SOC 3700 • 12 credit hours in Sociology courses numbered at the 2000 or 3000 level • 12 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • SOC 4450, SOC 4460, SOC 4560, SOC 4570 • 3 credit hours from SOC 3820, SOC 4580 • 12 credit hours in ancillary options¹ |
| DOUBLE HONOURS³ | | | |

| | | | |
|--|---|--|--|
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2010, SOC 2220, SOC 2290 • 6 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • 6 credit hours from SOC 3310, SOC 3330, SOC 3350, SOC 3360, SOC 3380, SOC 3390, SOC 3700 • 3 credit hours in Sociology courses numbered at the 2000 or 3000 level • 6 credit hours in free options² | <ul style="list-style-type: none"> • SOC 4450, SOC 4460, SOC 4560, SOC 4570 • 3 credit hours from SOC 3820, SOC 4580 • 6 credit hours in free options² |
| At least 36 credit hours in other Honours field | | | |
| NOTES: ¹ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Sociology courses). ² Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Sociology courses). ³ Honours courses: SOC 2010 and all 4000 level courses. | | | |

8.27.3 Criminology Program Information

Criminology is concerned with the complex social phenomena of crime and criminalization. The criminology program engages students in a systematic study of the nature and extent of crime and criminalization along with the array of agencies and programs designed to prevent, control, and respond to criminal activity over time and place. Attention is given to specific issues related to gender, race, class and crime, youth and crime, violence and victimization, criminal law and procedure, policing and crime prevention, restorative justice, and global criminology. Courses in the criminology program are taught primarily from a sociological perspective, with emphasis placed on research, program development, and policy analysis.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in SOC 1200 or a grade of "C" or better in both SOC 1211 and SOC 1221. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

It is not possible to have a Major in Criminology and a Minor in Sociology.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

8.27.4 Criminology

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--------|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |

| | | | |
|---|--|--|---|
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2290, SOC 2510, SOC 2610 | <ul style="list-style-type: none"> • 12 credit hours from SOC 3100, SOC 3310, SOC 3400, SOC 3410, SOC 3660, SOC 3700, SOC 3710, SOC 3720, SOC 3740, SOC 3750, SOC 3790, SOC 3830, SOC 3850, SOC 3860, SOC 3880 | |
| SINGLE HONOURS | | | |
| SOC 1200 or SOC 1211 and SOC 1221 | <ul style="list-style-type: none"> • SOC 2010, SOC 2220, SOC 2290, SOC 2510, SOC 2610 • 12 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • 3 credit hours of criminology-related theory courses from SOC 3310 or SOC 3700 • 3 credit hours² of criminology or sociology-related theory courses from SOC 3310, SOC 3330, SOC 3350, SOC 3360, SOC 3380, SOC 3390, SOC 3700 • 12 credit hours² from SOC 3100, SOC 3310, SOC 3400, SOC 3410, SOC 3660, SOC 3700, SOC 3710, SOC 3720, SOC 3740, SOC 3750, SOC 3790, SOC 3830, SOC 3850, SOC 3860, SOC 3880 • 12 credit hours in ancillary options¹ | <ul style="list-style-type: none"> • SOC 4450, SOC 4490, SOC 4570 • 3 credit hours of research methods courses from SOC 3820 or SOC 4580 • 3 credit hours of advanced theory courses from SOC 4460 or SOC 4560 • 12 credit hours in ancillary options¹ |
| NOTES: ¹ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Sociology courses). ² These courses can include SOC 3310 or SOC 3700 if not already completed as a criminology or sociology-related theory requirement | | | |

8.27.5 Sociology Course Descriptions-1000 Level

SOC 1200 Introduction to Sociology

Cr. Hrs. 6

A systematic introduction to the scientific perspective of sociology. The following areas will be treated: culture, socialization, groups, social stratification, associations, collective behaviour, and urban and political institutions. Students may not hold credit for SOC 1200 and any of: SOC 1211 or SOC 1221 or the former SOC 1201.

8.27.5 Sociology Course Descriptions-2000 Level

SOC 2010 Critical Issues in Sociology

Cr. Hrs. 3

A form-specific, content variable course especially designed for Honours students. The intent of this course is to develop critical thinking and improve students' oral, writing and research skills. It is also designed to

facilitate the creation of a cohesive cohort of Honours students through the use of group work and assignments. Prerequisite: written consent of department head.

SOC 2200 Sociology Through Film Cr. Hrs. 3

Using film as a method, this course will be organized around the broad themes of social inequality and social justice. It will engage in a critical sociological analysis of issues such as health and well-being, poverty, genocide and violence, globalization and consumer culture.

SOC 2220 Sociological Theoretical Foundations Cr. Hrs. 3

A review of classical sociological theory. The focus will be on the central figures and schools of thought in Sociology. Students may not hold credit for both SOC 2220 and SOC 2221. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2240 Sociology of Globalization Cr. Hrs. 3

Explores various sociological theories of globalization, stratification, local-global linkages, transnational social movements, and migration, in order to grasp what globalization is, its extent, its driving forces, and its effects. Students may not hold credit for both SOC 2240 and SOC 3460 when titled "Sociology of Globalization." Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2260 Cities and Urban Life Cr. Hrs. 3

A consideration of the social, cultural and urban processes and their relationship to urban life, with an emphasis on urban experience, sociality, and social inequality. Students may not hold credit for SOC 2260 and any of: SOC 2261 or the former SOC 2270 or the former SOC 2271. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2290 Introduction to Research Methods Cr. Hrs. 6

An introduction to quantitative and qualitative scientific methods of investigating social phenomena. The course will include introductions to the assumptions of scientific inquiry, the conceptualization of research problems and basic statistical analysis. Students may not hold credit for both SOC 2290 and SOC 2291. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2310 Selected Social Problems Cr. Hrs. 3

An examination of one or more contemporary social problems, other than crime and delinquency. Issues that might be addressed include poverty, war, environment, licit and illicit drugs, and death and dying. Consult the Registration Guide or contact the instructor for specific content in any particular academic year. Students may not hold credit for both SOC 2310 and SOC 2311. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SOC 2320 Canadian Society and Culture Cr. Hrs. 3

A sociological analysis of Canadian institutions with reference to historical, cultural, economic, and political perspectives. Students may not hold credit for both SOC 2320 and SOC 2321. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2330 Social Psychology in Sociological Perspective Cr. Hrs. 3

The course examines the interrelations of the individual, the group, and society, with emphasis on interaction as the process that gives form, direction, and meaning to the everyday lives of people. Topics to be discussed may include: self-esteem, identity, impression management, motivation and emotion. Students may not hold credit for both SOC 2330 and SOC 2331. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2350 Collective Behaviour Cr. Hrs. 3

The analysis of various forms of collective behaviour, such as crowds, mobs, and social movements. The underlying social conditions, action processes, and consequences of such behaviour will be considered. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2360 Small Group Interaction Cr. Hrs. 3

The basic sociological concepts and methods used in analyzing and designing small groups such as the family, children's groups, work groups, and friendship groups. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. SOC 2330 or SOC 2331 is recommended.

SOC 2370 Ethnic Relations Cr. Hrs. 3

Introduction to the social and social psychological aspects of ethnic relations in Canada. Students may not hold credit for both SOC 2370 and SOC 2371. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2380 Sociology of Religion Cr. Hrs. 3

A study of the nature and function of religion as a social institution with emphasis on early theorists, primitive religions, belief systems, and typologies. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2390 Social Organization Cr. Hrs. 3

The process of ordering social life and the structures that result. Power, conflict, social control, bureaucracy, industrialization, urbanization, and centralization. Students may not hold credit for both SOC 2390 and SOC 2391. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2450 Sociology of the Body Cr. Hrs. 3

Despite its centrality in social life, the human body is too often taken-for-granted. This course explores a variety of sociological perspectives on the socially constructed nature of bodies to understand how society and social relations both shape and are shaped by the human body. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2460 The Family Cr. Hrs. 3

A sociological analysis of the various family arrangements and practices in contemporary societies and their historical roots. An examination of the relationships between family and other institutions in the context of widespread social changes. Students may not hold credit for both SOC 2460 and SOC 2461. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2470 Courtship and Marriage Cr. Hrs. 3

Mate selection, marital interaction, adjustment, changing roles of wives and husbands, with special emphasis on division of labour, power relations, and sexual adjustment in contemporary Western marriage and across cultures. Experimental marriage forms will be examined. Students may not hold credit for both SOC 2470 and the former SOC 2471. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2480 Population Problems Cr. Hrs. 3

A survey of the impact of population growth, contraction, density and distribution on the social, political and economic institutions of developing and developed societies. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2490 Sociology of Health and Illness Cr. Hrs. 3

A general introduction to health sociology. The course examines health and illness as social concepts by exploring the personal and structural determinants of health status, and everyday health care practices in which people engage to maintain their health and to manage illness. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2510 Criminology Cr. Hrs. 3

A general introduction to theories of deviant behaviour and criminology. The explanation of crime with reference to physical, psychological, and social factors. Students may not hold credit for both SOC 2510 and SOC 2511. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2610 Sociology of Criminal Justice and Corrections Cr. Hrs. 3

The sociological study of the criminal justice system, including the police, the courts, prisons and other correctional agencies. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 2620 The Sociology of Aging Cr. Hrs. 3

This course explores sociological approaches to the study of age-related phenomena and processes, and aging societies, with a focus on Canadian issues. Associations will be drawn between individual aging experiences and outcomes, and broader political, economic, sociocultural, demographic and historical contexts (including globalization). Strategies to promote the social inclusion of older adults and reduce age-based social inequalities will be discussed. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 2630 Social Change Cr. Hrs. 3

Major trends of social changes in society, revolutionary and evolutionary change; problems in the measurement and prediction of social change patterns, consequences and problems of future change. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

8.27.5 Sociology Course Descriptions-3000 Level**SOC 3100 Practicum in Criminological/Sociological Research Cr. Hrs. 6**

This course is designed to develop students' research skills and experience through placement in a criminal justice or other social service agency having a mandate relevant to the study of sociology. The course consists of supervised work within the agency and classroom instruction, culminating in the production of a research report. Enrolment is competitive and special advance permission is required to register. To be considered for admission, students must complete an application form (available from the Department of Sociology website) by the last day of May preceding the Fall term in which the student intends to take the course. Students may not hold credit for both SOC 3100 and the former SOC 3760. Prerequisite: written consent of department head.

SOC 3310 Theorizing Crime, Law, and Social Justice Cr. Hrs. 3

Through investigation of a variety of theoretical approaches, this course fosters an appreciation of the relevance of theorizing for addressing contemporary issues related to crime, law, and social justice. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3330 Origins of Sociological Thought Cr. Hrs. 3

A systematic introduction to sociological thought from ancient philosophy to the middle of the 19th century. Emphasis is placed on social thought that is to become the foundations of sociological theory. Students may not hold credit for both SOC 3330 and SOC 3331. Prerequisite: [a grade of "C" or better in SOC 2220 or SOC 2221] or written consent of department head.

SOC 3350 Feminism and Sociological Theory Cr. Hrs. 3

A critical examination of how gender has been addressed in classical and contemporary sociological theories, with consideration of how sociological inquiry is being transformed through feminist theory and practice. Prerequisite: [a grade of "C" or better in SOC 2220 or SOC 2221] or written consent of department head.

SOC 3360 Theories in Social Psychology Cr. Hrs. 3

A review of the predominant theoretical perspectives currently utilized in social psychology in relation to contemporary sociological concerns. Prerequisite: [a grade of "C" or better in SOC 2220 or SOC 2221] or written consent of department head.

SOC 3370 Sociology of Work Cr. Hrs. 3

An examination of work as a central aspect of human social life; its changing nature and content in response to technological, political, and social change; how work is organized and understood by employers and workers; its consequences for individuals, social institutions, and society. Students may not hold credit for both SOC 3370 and SOC 3371. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3380 Power, Politics and the Welfare State Cr. Hrs. 3

A critical evaluation of sociological theory and research focusing on power and politics in society. Topics covered include: the dimensions of power (economic, political, ideological), classes and class conflict, political socialization, the origin and nature of the state, and the welfare state. Students may not hold credit for SOC 3380 and any of: SOC 3471 or the former SOC 3470. Prerequisite: [a grade of "C" or better in SOC 1200 or SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221] or written consent of department head.

SOC 3390 Contemporary Sociological Theory Cr. Hrs. 3

A critical examination of contemporary theoretical perspectives and developments in sociology, highlighting the contributions of some major theorists. Course content may vary from year to year depending upon the instructor's interest. Students may not hold credit for both SOC 3390 and SOC 3391. Prerequisite: [a grade of "C" or better in SOC 2220 or SOC 2221] or written consent of department head.

SOC 3400 Policing and Crime Prevention **Cr. Hrs. 3**

The sociological study of the organization and operation of the police and the evidence-based prevention of crime. Topics include the history and role and functions of the police, police culture and socialization, strategies and tactics, police deviance and ethics, future policing trends, and methods of crime prevention. Students may not hold credit for both SOC 3400 and SOC 3740 with topic "Policing and Crime Prevention." Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3410 Critical Victimology **Cr. Hrs. 3**

Through investigating a variety of theoretical perspectives, this course fosters an appreciation of forms of and factors leading to victimization and the experiences of victims in the criminal justice system. Students may not hold credit for both SOC 3410 and SOC 3740 when titled "Victims and the Criminal Justice System." Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3450 Sociological Perspectives on the Social Determinants of Health **Cr. Hrs. 3**

This course will apply a sociological perspective to a critical and theoretically informed study of the social structures influencing personal and population health, including intersections of class, gender, ethnicity, and aging as sources of health inequities. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3460 Selected Topics **Cr. Hrs. 3**

The content of this course will vary from year to year, but will consist of a thorough sociological treatment of some topic of current interest. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SOC 3540 The Sociology of Health Care Systems **Cr. Hrs. 3**

An analysis of the social organization of formal and informal health care, including topics such as professionalism and health care, the nature of therapeutic relationships, institutional vs. community-based care, social reform and health care policy, medicine and the state, and emerging patterns of health care. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. SOC 2490 is recommended.

SOC 3580 Media, Culture and Society **Cr. Hrs. 3**

A consideration of the influence of media on contemporary society, analyzing the production, circulation and consumption of various media forms and their relationship to social life. Students may not hold credit for SOC 3580 and any of: SOC 3581 or the former SOC 3590 or the former SOC 3591. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. SOC 2330 or SOC 2331 is recommended.

SOC 3660 Sociology of Mental Disorder **Cr. Hrs. 3**

A study of the social processes involved in becoming and being mentally ill. Topics such as the public imagery of madness, decision-making rules in psychiatry, life in the mental hospital, and community attitudes toward the mentally ill will be considered. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. SOC 2490 is recommended.

SOC 3700 Sociology of Law **Cr. Hrs. 3**

Description The aim of this course is to gain an understanding of the law-society relationship. Different theoretical approaches will be used to investigate substantive issues that pertain to the role of law in (re)producing social inequalities and its potential for alleviating them. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3710 Sociology of Criminal Careers **Cr. Hrs. 3**

An examination of patterns of criminal behaviour focusing on the sociological aspects of selected offences, the criminal career of the offender, and on societal reaction and legal processing. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3720 The Criminal Law and Its Procedure **Cr. Hrs. 3**

An introduction to the criminal law and an overview of the system by which the criminal law is administered. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3730 Society and Education **Cr. Hrs. 3**

A critical examination of schools at all levels and the challenges they face. Issues such as, curriculum, classroom interaction, gender, race, class and equality of educational opportunities will be explored. The course should be useful to students interested in careers in education and counselling. Students may not hold credit for both SOC 3730 and SOC 3731. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3740 Selected Topics in Criminology **Cr. Hrs. 3**

The specific content of this course will vary, but in general it will consist of an examination of a specialized topics relevant to Criminology. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SOC 3750 Institutional Responses to Violence in Family and Intimate Relationships **Cr. Hrs. 3**

This course will focus on the growing public awareness of the prevalence of interpersonal violence in Canada, examining studies of prevalence from victimization surveys and criminal justice statistics. We examine various criminological and sociological theories of the causes, dynamics and interventions in family and interpersonal violence, legislation and policy and assess these changes from the perspective of victims and accusers. Students may not hold credit for both SOC 3750 and SOC 3460 when titled "Interpersonal Violence and Institutional Responses." Prerequisite: a grade of "C" or better in SOC 2510 or SOC 2511.

SOC 3770 Women, Health and Medicine **Cr. Hrs. 3**

A systematic sociological analysis of women's participation in the health care system, as consumers as well as providers. Historical and contemporary health issues of women are explored, as are women's efforts to control their experiences and improve their well-being. Prerequisite: [a

grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221]. SOC 2490 is recommended.

SOC 3790 Women, Crime and Social Justice Cr. Hrs. 3

The course examines gender differences in crime, theories of women's crime and the treatment of women offenders and victims by the criminal justice system. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3810 Sociological Perspectives on Gender and Sexuality Cr. Hrs. 3

An exploration of the relations between men and women in contemporary society. This course will use historical and cross-cultural standpoints to examine the social construction of gender and sexuality, and the ideological and material structures which (re)produce gender difference. Students may not hold credit for both SOC 3810 and SOC 3811. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3820 Qualitative and Historical Methods in Sociology Cr. Hrs. 3

An introduction to a variety of data gathering techniques such as participant observation, interviewing, life histories, archival research, document analysis, and the use of case studies. Emphasis will be placed on the use of inductive/deductive procedures in the transformation of raw data into theoretical interpretations. Prerequisite: [a grade of "C" or better in SOC 2290 or SOC 2291] or written consent of department head.

SOC 3830 Youth, Crime, and Society Cr. Hrs. 3

An analysis of issues surrounding the treatment of children and youth in the Canadian criminal justice system. Topics include: historical changes in the role of children and youth; young offender legislation; young offenders and media; and current research on youth crime and its prevention in Canada and other countries. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3838 Ecology and Society Cr. Hrs. 3

Examines changing patterns of social organizations of civilizations, the resultant social constructions of the human/nature interface, the human social contribution to the global ecological crisis, and possible strategies to create sustainable societies. Consideration of topics such as population, consumption, capitalism, and agricultural practices. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3840 Community and Social Reconstruction Cr. Hrs. 3

An examination of the changing relationships between the global economic market, the declining resource base of the nation state, and the shift to local control within civil society. Topics may include: the central role of the household in civil society, the informal sector, local initiatives (e.g., co-housing, cooperative, land trusts), and community development. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3850 Restorative Justice Cr. Hrs. 3

A general introduction to the social theory and practice of restorative justice. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head.

SOC 3860 Genocide, Crime and Society Cr. Hrs. 3

A critical sociological and criminological examination of comparative genocide studies. Emphasis is placed on the utility of sociological and criminological theoretical frameworks for understanding and explaining genocide, as well as the conceptual and moral failings of criminology and sociology in the face of genocide. Students may not hold credit for both SOC 3860 and SOC 3740 when titled "Genocide." Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

SOC 3880 Global Criminology and Criminal Justice Cr. Hrs. 3

This course examines current developments and issues in the field of global criminology and criminal justice. Topics include: crime and globalization; transnational policing and security; world criminal justice systems; global criminal justice policy transfer; and international criminal justice. Students may not hold credit for both SOC 3880 and the former SOC 3780. Prerequisite: [a grade of "C" or better in SOC 2510 or SOC 2511] or written consent of department head. SOC 2610 is strongly recommended.

SOC 3890 Power and Inequality in Comparative Perspective Cr. Hrs. 3

Engaging in a cross-temporal and cross-national investigation, this course critically surveys classical and contemporary debates around the inevitability of social inequality, and explores the ways that inequalities have been reproduced and rationalized, or attenuated and challenged, throughout human history. Key facets and indicators of inequality (such as poverty, homelessness, social exclusion and the distribution of income and wealth) and their relation to central axes of social inequality (class, gender, race/ethnicity and age) are considered. Put simply, this course is concerned with 'who gets what and why?' Students may not hold credit for SOC 3890 and any of: SOC 3871 or the former SOC 3870. Prerequisite: [a grade of "C" or better in SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

8.27.5 Sociology Course Descriptions-4000 Level

SOC 4450 Honours Seminar Cr. Hrs. 6

An intensive discussion of selected sociological problems, culminating in a major Honours thesis. Prerequisite: written consent of department head.

SOC 4460 Advanced Sociological Theory Cr. Hrs. 3

A critical examination and analysis of sociological theories. Prerequisite: written consent of department head.

SOC 4490 Advanced Seminar in Criminology Cr. Hrs. 3

A critical examination of the field of criminology and the work of criminologists in shaping modern sensibilities about crime, law, and social justice. Topics include the origins of modern criminology, the development of competing knowledge frameworks in criminology (including the impact of feminist, post-modern, and post-colonial criminologies), and trajectories of 21st century criminology (including scientific, global, and public criminology). Prerequisite: written consent of department head.

SOC 4530 Readings in Sociology Cr. Hrs. 3

A reading course for undergraduates and pre-Master's in sociology. Prerequisite: written consent of department head. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

SOC 4560 Advanced Sociological Theory Cr. Hrs. 3

A critical examination and analysis of selected sociological theories. Course content may vary from year to year depending upon the instructor's interest. Prerequisite: written consent of department head.

SOC 4570 Quantitative Social Analysis Cr. Hrs. 3

The application of quantitative data analysis in the social sciences, including the following procedures: multiple regression, dummy variable regression, simple analysis of variance and covariance, and an introduction to path analysis. Students may not hold credit for both SOC 4570 and the former SOC 4480. Prerequisite: written consent of department head.

SOC 4580 Social Research Methods Cr. Hrs. 3

An introduction to the philosophy of science and logic of scientific method, as well as a survey of research methods and issues. Students are expected to gain a working knowledge of the research process. Students may not hold credit for both SOC 4580 and the former SOC 4470. Prerequisite: written consent of department head.

8.28 Ukrainian Canadian Heritage Studies Program

Program Director: (Acting) Orest Cap
 Campus Address/General Office: 207 St. Andrew's College
 Telephone: 204 474 8907
 Email Address: cucs@umanitoba.ca
 Website: http://umanitoba.ca/ukrainian_canadian_studies/

8.28.1 Program Information

Canada is a multicultural nation to which people of Ukrainian origin have made a significant contribution. The study of this community, its past and present, provides a general understanding of the Ukrainian heritage and its role in Canadian society. The program is cross-disciplinary and leads to a Major, Advanced Major, or Minor. In addition to its Canadian focus, the program also examines historical and contemporary issues in Ukraine.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in six credit hours from List A below. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in six credit hours from List A below.

8.28.2 Ukrainian Canadian Heritage Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| 6 credit hours from List A | 24 credit hours from List B taken from each of three different departments, to include at least 6 credit hours from the 3000 level or higher | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |

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| 6 credit hours from List A | <ul style="list-style-type: none"> • 6 credit hours from List A • 36 credit hours from List B, to include at least 12 credit hours from the 3000 level or higher |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | |
| 6 credit hours from List A | • 12 credit hours from List B taken from each of two different departments |

| List A | | |
|--|---|---|
| Faculty of Arts | | |
| Economics | | |
| ECON 1210 | Introduction to Canadian Economic Issues and Policies | 3 |
| ECON 1220 | Introduction to Global and Environmental Economic Issues and Policies | 3 |
| German and Slavic Studies | | |
| UKRN 1230 | Ukrainian Language Seminar Abroad | 3 |
| UKRN 1310 | Introductory Ukrainian | 6 |
| UKRN 2260 | Ukrainian Culture Seminar Abroad | 3 |
| UKRN 2720 | Intermediate Ukrainian | 6 |
| History | | |
| HIST 1200 | An Introduction to the History of Western Civilization (G) | 6 |
| HIST 1350 | An Introduction to the History of Western Civilization to 1500 (G) | 3 |
| HIST 1360 | An Introduction to the History of Western Civilization from 1500 (G) | 3 |
| HIST 1400 | History of the Canadian Nation Since 1867 (C) | 3 |
| Political Studies | | |
| POLS 1502 | Introduction to Political Studies | 3 |
| POLS 1506 | Survey of Political Studies | 3 |
| POLS 2502 | Introduction to World Affairs | 3 |
| POLS 2504 | Introduction to International Relations | 3 |
| POLS 2702 | Introduction to Canadian Politics | 3 |
| Religion | | |
| RLGN 1322 | Introduction to Eastern Religions | 3 |
| RLGN 1324 | Introduction to Western Religions | 3 |
| RLGN 1350 | The History of Eastern Christianity | 6 |
| Sociology and Criminology | | |
| SOC 1200 | Introduction to Sociology | 6 |
| Clayton H. Riddell Faculty of Environment, Earth, and Resources | | |
| Geography | | |
| GEOG 1280 | Introduction to Human Geography | 3 |
| GEOG 1290 | Introduction to Physical Geography | 3 |
| School of Art | | |

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| FAAH 1030 | Introduction to Art 1A | 3 |
| FAAH 1040 | Introduction to Art 2A | 3 |

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| List B | | |
| Faculty of Arts | | |
| Economics | | |
| ECON 2510 | The Economy of Ukraine | 3 |
| German and Slavic Studies | | |
| UKRN 2410 | Ukrainian Canadian Cultural Experience | 3 |
| History | | |
| HIST 2600 | Introduction to Ukraine (E) | 3 |
| HIST 2610 | Making of Modern Ukraine (E) | 3 |
| HIST 3910 | The Ukrainians in Canada (C) | 3 |
| Political Studies | | |
| POLS 3720 | Politics, Government and Society in Ukraine | 3 |
| Religion | | |
| RLGN 2520 | Eastern Christianity in North America | 3 |
| RLGN 2530 | Eastern Christianity in the Contemporary World | 3 |
| Ukrainian Canadian Heritage Studies | | |
| UCHS 3100 | The Ukrainian Arts in Canada | 3 |
| Clayton H. Riddell Faculty of Environment, Earth, and Resources | | |
| Geography | | |
| GEOG 2570 | Geography of Canada (A) | 3 |
| GEOG 2900 | Geography of Canadian Prairie Landscapes (A) | 3 |
| School of Art | | |
| FAAH 3280 | Early Byzantine Art and Architecture | 3 |
| FAAH 3290 | Later Byzantine Art and Architecture | 3 |

8.28.3 Ukrainian Canadian Heritage Studies Course Descriptions

UCHS 3100 The Ukrainian Arts in Canada Cr. Hrs. 3

Description A study of varied aspects of artistic performance and production among Ukrainians in Canada, past and present: music, theatre, dance, cinema, fine arts and architecture. The course will focus on crucial trends and processes and adopt an evaluative approach in its exploration of the above artistic phenomena.

8.29 Women's and Gender Studies Program

Program Coordinator: Shawna Ferris

Program Office: 218 Isbister Building

Telephone: 204 474 6984

E-mail: womens_gender_studies@umanitoba.ca

Website: umanitoba.ca/womens_gender_studies

8.29.1 Program Information

Fundamental questions of equality and social justice are still very much with us, and as a dynamic interdisciplinary program, we explore both current and historical debates about women's experiences, gender relations, and feminism. Courses take diverse theoretical and practical approaches, including feminist cultural studies and studies of popular

culture, violence against women, lesbian and queer studies, women in science and technology, gendered violence in urban spaces, sex work and sex workers, feminist geography, indigenous feminisms, masculinity studies, and reconstructing indigenous art histories that recontextualize museum collections and reclaim women's voices and lives.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

The following entries contain information which is not contained in Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in each of two 3 credit hour courses in Women's and Gender Studies. It is suggested that students wishing to Major in Women's and Gender Studies take both WOMN 1500 and WOMN 1600. For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

Minor (Concentration) Program

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in each of two 3 credit hour courses in Women's and Gender Studies.

Honours Program

For entry to the Honours program, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

Coordinated Programs in Women's and Gender Studies

Students may take courses in the Women's and Gender Studies program at the University of Winnipeg and, where applicable, have these courses credited to their degree at the University of Manitoba. The coordinated program offers students access to more faculty resources, greater course selection and additional library facilities and thus can enrich their Women's and Gender Studies program.

Students are advised to consult with the Women's and Gender Studies coordinator for information on courses available for credit in Women's and Gender Studies.

In addition, special courses under the rubric of selected topics or contemporary issues may be available in various Arts departments, particularly Anthropology, English, Psychology, and Sociology, for Women's and Gender Studies credit in any given academic term.

8.29.2 Women's and Gender Studies

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • WOMN 2000 and WOMN 3000 • 21 credit hours from Women's and Gender Studies courses and/or List A | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |

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| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • WOMN 2000 and WOMN 3000 • 9 credit hours from Women's and Gender Studies courses • 9 credit hours from courses numbered at or above the 3000 level from Women's and Gender Studies courses and/or List A • 21 credit hours from Women's and Gender Studies courses and/or List A |
| DOUBLE ADVANCED MAJOR TOTAL: 42 CREDIT HOURS | |
| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • WOMN 2000 and WOMN 3000 • 9 credit hours from Women's and Gender Studies courses • 9 credit hours from courses numbered at or above the 3000 level from Women's and Gender Studies courses and/or List A • 15 credit hours from Women's and Gender Studies courses and/or List A |
| MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS | |
| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • 6 credit hours from Women's and Gender Studies courses • 9 credit hours from Women's and Gender Studies courses and/or List A |
| SINGLE HONOURS³ | |
| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • WOMN 2000, WOMN 3000, WOMN 4100, WOMN 4200 • 18 credit hours from Women's and Gender Studies courses • 12 credit hours from courses numbered at or above the 3000 level from Women's and Gender Studies courses and/or List A • 12 credit hours from Women's and Gender Studies courses and/or List A • 24 credit hours in ancillary options¹ • 12 credit hours in free options² |
| DOUBLE HONOURS³ | |
| WOMN 1500 or WOMN 1600 | <ul style="list-style-type: none"> • WOMN 2000, WOMN 3000, WOMN 4100, WOMN 4200 • 12 credit hours from Women's and Gender Studies courses • 12 credit hours from courses numbered at or above the 3000 level from Women's and Gender Studies courses and/or List A • 36 credit hours in other Honours field • 6 credit hours in ancillary options¹ • 12 credit hours in free options² |
| NOTES: | |
| ¹ Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Women's and Gender Studies courses). | |
| ² Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Women's and Gender Studies courses). WOMN 4120 is strongly recommended although not required. | |
| ³ Honours courses: all 4000 level courses. | |

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| List A | | |
| Faculty of Arts | | |
| Anthropology | | |
| ANTH 3320 | Women in Cross-Cultural Perspective | 3 |
| ANTH 3321 | Femmes, société et cultures (USB) | 3 |
| ANTH 3330 | Sex and Sexualities | 3 |
| Classics | | |
| CLAS 2210 | Women in Ancient Greece and Rome | 3 |
| Economics | | |
| ECON 2362 | Economics of Gender | 3 |
| French, Spanish and Italian | | |
| FREN 2680 | Littérature féminine française (B) | 3 |
| FREN 3860 | Études sur Beauvoir (B) | 3 |
| German | | |
| GRMN 1310 | Love in German Culture in English Translation (C) | 3 |
| GRMN 3280 | Sex, Gender and Cultural Politics in the German-Speaking World (B) | 3 |
| GRMN 3282 | Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C) | 3 |
| History | | |
| HIST 2400 | History of Human Rights and Social Justice in the Modern World (G,M) | 3 |
| HIST 3572 | The History of Women, Gender, and Sexuality in Canada (C) | 6 |
| HIST 3760 | Problems in American History 1 | 3 |
| | Acceptable for credit only when the topic is "Gender and Sexuality in 20th Century America." | |
| HIST 3811 | Famille, amour et mariage dans la société occidentale, 1500-1800 (E) | 6 |
| HIST 4060 | Gender History in Canada (C) | 6 |
| Native Studies | | |
| NATV 2430 | Indigenous Women's Stories | 3 |
| NATV 3360 | Aboriginal Women of Canada | 3 |
| NATV 3380 | Cultural Constructions of Gender in Canadian Aboriginal Societies | 3 |
| Philosophy | | |
| PHIL 3220 | Feminist Philosophy | 3 |
| Political Studies | | |
| POLS 3100 | Gender and Politics in Canada | 3 |
| Psychology | | |
| PSYC 2380 | Psychology of Gender | 3 |

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| PSYC 3570 | Psychology of Women | 3 |
| Religion | | |
| RLGN 2680 | Women and Religion 1 | 3 |
| RLGN 2690 | Women and Religion 2 | 3 |
| Slavic Studies | | |
| UKRN 3970 | Women and Ukrainian Literature | 3 |
| Sociology | | |
| SOC 2460 | The Family | 3 |
| SOC 2461 | La famille (USB) | 3 |
| SOC 2470 | Courtship and Marriage | 3 |
| SOC 3350 | Feminism and Sociological Theory | 3 |
| SOC 3770 | Women, Health and Medicine | 3 |
| SOC 3790 | Women, Crime and Social Justice | 3 |
| SOC 3810 | Sociological Perspectives on Gender and Sexuality | 3 |
| SOC 3811 | Sociologie de la sexualité et des rôles sexuels (USB) | 3 |
| School of Art | | |
| FAAH 2110 | Women and Art | 3 |
| FAAH 4090 | Seminar on Contemporary Issues in Art | 3 |
| Acceptable for credit only when the topic is "Women Artists." | | |
| Clayton H. Riddell Faculty of Environment, Earth, and Resources | | |
| GEOG 4280 | Gender and the Human Environment | 3 |
| Marcel A. Desautels Faculty of Music | | |
| MUSC 4130 | History of Women in Music | 3 |
| Faculty of Nursing | | |
| NURS 3330 | Women and Health | 3 |

For course descriptions, see departmental listings.

NOTE: List A courses are identified in Aurora Student with the course attribute of "Women's Studies Requirement."

8.29.3 Women's and Gender Studies Course Descriptions-1000 Level

WOMN 1500 Introduction to Women's and Gender Studies in the Humanities **Cr. Hrs. 3**

Examination of the central concerns of women and gender in the Humanities. A focus on representation, voice, knowledge, and subjectivity. Students may not hold credit for both WOMN 1500 and the former WOMN 1530.

WOMN 1600 Introduction to Women's and Gender Studies in the Social Sciences **Cr. Hrs. 3**

Examination of women's historical and contemporary roles in the economy, family, and society from the perspective of the social sciences. Introduction of feminist theories, with emphasis on the role of gender. Topics covered focus on the social conditions of women's lives: work, health, violence and organizing for change. Students may not hold credit for both WOMN 1600 and the former WOMN 1540.

8.29.3 Women's and Gender Studies Course Descriptions-2000 Level

WOMN 2000 Feminist Thought **Cr. Hrs. 3**

Survey of the varieties of historical and contemporary feminist ideas. Students may not hold credit for both WOMN 2000 and the former WOMN 2520. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 2500 Race, Class and Sexuality **Cr. Hrs. 3**

An exploration of the various ways race, class, and sexual orientation impact on women's lives and identities. Focus is on how racism, classism and heterosexism are produced and reproduced both within and outside of the feminist movement. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 2530 Writing Women's Lives **Cr. Hrs. 3**

Examination of the ways that traditional scripts for women have been rewritten in literature and film. Topics include coming-of-age, madness, utopia, motherhood, and romantic love as represented in fairytales, autobiographies, documentaries, contemporary novels, and Hollywood films.

WOMN 2540 Special Topics in Women's Studies **Cr. Hrs. 3**

Course content will vary according to the needs and interests of students and instructors. Consult the Women's and Gender Studies Program office for information as to specific topics offered. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

WOMN 2560 Women, Science and Technology **Cr. Hrs. 3**

An overview of women's historical and contemporary participation in science, issues in science and math education, feminist critiques and theories on science and gender, and the impact of technology on women's lives.

WOMN 2600 Sex, Gender, Space and Place **Cr. Hrs. 3**

An examination of how we use places and spaces in our everyday lives to produce and maintain social differences of gender, sexuality, race, class, and citizenship. Drawing on perspectives from feminist geography and history, this course explores ideas about places (for example, homes) and spaces (for example, regions), as well as historical claims that women belong in place but men should control space. Students may not hold credit for both WOMN 2600 and WOMN 2540 with the topic "Sex, Gender, Space and Place."

WOMN 2610 Gender, Transport and Social Justice **Cr. Hrs. 3**

Examines the gendered impact of uneven access to transportation. Using feminist theories of gender and mobility, it considers claims that mobile women are in danger, and that different forms of transportation have gendered cultures. It studies the links between imperialism, development,

and transportation. The course also examines the particular ways in which transportation disadvantage, automobility, limited public transit services, and aging in place affect women as well as initiatives to promote sustainable transportation. Students may not hold credit for both WOMN 2610 and WOMN 2540 with the topic "Gender, Transport and Social Justice."

WOMN 2620 Feminism and Popular Culture Cr. Hrs. 3

This course introduces critical skills and a theoretical framework or "toolkit" in feminist popular cultural studies in order to facilitate more critically aware participation, analysis, and production in/of popular culture. It is a feminist examination, using various popular cultural and media forms, of how normative and revolutionary social relations of power are/may be constituted in and through popular culture. Students may not hold credit for both WOMN 2620 and the former WOMN 2570.

WOMN 2630 Indigenous Feminisms Cr. Hrs. 3

With reference to scholarship, activism, and literary, narrative, and/or creative works, this course examines Indigenous Feminisms past and present, including the development and framing of what Kwakwaka'wakw scholar Sarah Hunt has called "an emerging Indigenous feminist field."

WOMN 2640 Issues in Gender and the Body Cr. Hrs. 3

Using a feminist critical lens, this course examines issues relating to gender, the body, and embodiment. Topics to be considered include (but are not limited to) social and scientific constructions of the body; constructions of beauty, health, fitness, and fatness; intersectionality and embodiment; incongruence of sex and gender identification; symbolic and literal cultural discipline and punishment of gendered bodies; artistic representations of and responses to gendered bodies; embodiment in trans and queer communities; embodiment in Indigenous and racialized communities.

WOMN 2650 Issues in Gender and Sexualities Cr. Hrs. 3

Using a feminist critical lens, this course examines issues relating to gender and sexuality. Of particular interest will be considerations of how social, political, historical, and popular cultural forces influence representations and constructions of gender and sexuality, as well as how we understand ourselves, others, and our relationships to each other and the world around us.

8.29.3 Women's and Gender Studies Course Descriptions-3000 Level

WOMN 3000 Interdisciplinary Research in Women's and Gender Studies Cr. Hrs. 3

An introduction to the approaches scholars use to challenge the dominant theories of knowledge and the major methodologies used to produce it. The course examines the influence of gender theory and feminism on the research questions we ask, the types of materials we use, and the methods we employ. Students may not hold credit for both WOMN 3000 and the former WOMN 3580. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 3100 Sex Work in Contemporary Canadian Culture Cr. Hrs. 3

This course examines cultural linkages between femininity and prostitution in the context of contemporary Canadian culture. The course begins by considering historical cultural and feminist discourses about sex work and sex workers. Keeping in mind that the actual exchange of sexual services for money is currently legal in Canada, course discussions will interrogate enduring representations of sex work/ers. The course also examines some prostitution-related legislation, ideological and "real world" linkages

between violence and prostitution, and ongoing activism that reinforce or resist negative representations and the violent realities of sex work/ers in Canada today. Students may not hold credit for both WOMN 3100 and WOMN 2540 with the topic "Sex Work in Contemporary Canadian Culture." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 3110 Women and the Military Cr. Hrs. 3

The course will: introduce feminist theoretical analyses of militarization; explore the mobilization of women in wartime and its relation to postwar battles over women's on-going access to well-paid occupations inside and outside the armed forces; through case studies, examine the processes by which women challenged their exclusions from particular roles; compare women's experiences in different armed forces and their recruitment strategies; analyse sexual misconduct policies and the treatment of military families and veterans; consider the relationship between the feminist peace movement and women in the military; and study the struggles to commemorate women's wartime contributions. Students may not hold credit for WOMN 3110 and WOMN 3500 with the topic "Women in the Military." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of instructor.

WOMN 3120 Indigenous Women and the Camera Cr. Hrs. 3

Indigenous women have had a long and problematic relationship with the camera. The colonial lens created a visual legacy of exoticism and objectification, creating images that continue to haunt us. However, women also sought the camera for their own purposes, seizing control of their own representation, and 'speaking back'. Now photography and film are among the strongest modes of women's contemporary artistic expression. This course will explore both legacies from Indigenous women worldwide. Whenever possible, the class will integrate with the Native Women & Film festival, a film event that brings women filmmakers to Winnipeg. Students may not hold credit for WOMN 3120 and WOMN 2540 with the topic "Indigenous Women and the Camera." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of instructor.

WOMN 3130 Gender, Race and Environmental Justice Cr. Hrs. 3

Relying on interdisciplinary feminist and Indigenous perspectives, this course examines how historical and present-day environmental issues do not exist "out there," but profoundly shape our bodies and lives, and in turn are shaped by social structures and inequities. It includes study of relationships between human and non-human beings in different places and times, and invites students to consider both the interconnection between social and environmental struggles and the misperception that humans and environments somehow exist in isolation from one another. It also provides room to study, envision and enact alternative planetary relationships. Students may not hold credit for both WOMN 3130 and WOMN 3500 with the topic "Nature, Culture, Gender." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of instructor.

WOMN 3500 Selected Topics in Women's Studies Cr. Hrs. 3

Course in which content varies from year to year according to needs and interests of students and instructors. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

WOMN 3520 Transnational Feminisms Cr. Hrs. 3

Introduction to transnational feminist perspectives in order to analyse our contemporary world, including gendered, racialized, and classed power relations and inequalities. Focus is placed on how current global phenomena such as neoliberalism, structural adjustment, and migration shape people's lived experiences in different regions of the world. Students may not hold credit for both WOMN 3520 and the former WOMN 3510. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of instructor.

WOMN 3530 Readings in Women's Studies Cr. Hrs. 6

Directed readings in a range of Women's Studies literature. This is an independent study course. Prerequisite: written consent of instructor and Women's and Gender Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

WOMN 3540 Readings in Women's Studies Cr. Hrs. 3

Directed readings in a range of Women's Studies literature. This is an independent study course. Prerequisite: written consent of instructor and Women's and Gender Studies coordinator. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different.

WOMN 3550 Feminist Community Organizing: Theories and Practices Cr. Hrs. 3

Overview of organizing efforts and techniques, community issues and strategies that women have developed in North American and especially Canadian communities. Focus is on a synthesis of thought and action, theory and practise. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 3560 Feminist Perspectives on Violence Against Women Cr. Hrs. 3

An overview of feminist research and theories on violence against women as an integral component of our social structure, and on issues of social change to alleviate the problem. Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

WOMN 3620 Masculinities Cr. Hrs. 3

An introduction to the key debates in masculinity studies from a feminist perspective. Considering the idea of "hegemonic masculinity" and the practice of creating a typology of masculinity, this course examines the changing forms of masculinity as a political and cultural category, using historical examples from the 19th century and the 1970s and considers the influence of feminist theories on men's engagement with masculinity in North America. Students may not hold credit for both WOMN 3620 and WOMN 3500 with the topic "Masculinities." Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

8.29.3 Women's and Gender Studies Course Descriptions-4000 Level**WOMN 4100 Honours Thesis Cr. Hrs. 6**

Description The Thesis presents the results of an independent research project supervised by a faculty member. Prerequisite: written consent of the Women's and Gender Studies coordinator.

WOMN 4120 Practicum in Feminist Organizing Cr. Hrs. 6

Between September and March, the student will complete a minimum of 80 hours of unpaid independent work in a feminist or woman-centered organization and meet regularly with the instructor and other practicum students. Students will reflect critically on the work experience in course assignments. Prerequisite: [a grade of "C" or better in at least 24 credit hours in Women's and Gender Studies courses] and written consent of the Women's and Gender Studies coordinator.

WOMN 4200 Seminar in Women's and Gender Studies Cr. Hrs. 3

An advanced seminar on a contemporary theme in Women's and Gender Studies. The theme will vary from year to year in accordance with the research interests of the instructor and new developments in the field. Student presentations and discussions will be emphasized. Students may not hold credit for both WOMN 4200 and the former WOMN 4110. Prerequisite: [a grade of "C" or better in WOMN 2000 or the former WOMN 2520] and written consent of the Women's and Gender Studies coordinator.

SECTION 9: Courses and Programs Offered by Other Faculties and Schools for Credit in Arts

Courses

All degree credit courses offered by other Faculties or Schools at the University of Manitoba are acceptable for credit in Arts (excludes Pass/Fail courses) subject to the Faculty of Arts overall degree requirements. Such courses taken prior to admission to Arts will be included on transfer and will also be used in determining eligibility for admission. For details see Section 5.3. For course descriptions see the departmental listing in this Calendar.

Programs

Also listed below are eight programs which can be used by Faculty of Arts students to satisfy the Major or Minor requirement for graduation with a Bachelor of Arts degree. These programs are:

| | |
|------------------------------|----------------------------|
| History of Art General Major | Mathematics General Major |
| History of Art Minor | Mathematics Advanced Major |
| Minor in Management | Mathematics Minor |

Effective September 2009 Arts students may complete Minor programs offered by other Faculties/Schools not listed above providing the Minor program consists of a minimum of 18 credit hours and all other degree requirements are satisfied.

9.1 School of Art: Art History

Program Coordinator: L. Stirling
Program Office: 349 University College
Telephone: 204 474 7357

9.1.1 Program Information

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 3: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs. NOTE: It is strongly recommended that students majoring in Art History have competence in a second language.

9.1.2 Art History

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| FAAH 1030, FAAH 1040 | <ul style="list-style-type: none"> • FA 1990 • 12 credit hours from List A • FAAH 3260 or FAAH 3270 • 9 credit hours from either List A or List B | | |
| MINOR TOTAL: 18 CREDIT HOURS | | | |
| FAAH 1030, FAAH 1040 | 12 credit hours from either List A or List B | | |

| Introductory Courses | | |
|----------------------|------------------------|---|
| FAAH 1030 | Introduction to Art 1A | 3 |
| FAAH 1040 | Introduction to Art 2A | 3 |
| FA 1990 | First Year Field Trip | 0 |

| List A | | |
|------------------------|--|---|
| Faculty of Arts | | |
| Classics | | |
| CLAS 2670 | Greek Art and Archaeology | 3 |
| CLAS 2680 | Roman Art and Archaeology | 3 |
| School of Art | | |
| Art History | | |
| FAAH 1100 | Survey of Asian Art | 3 |
| FAAH 2060 | Medieval to Early Renaissance Art and Architecture | 3 |
| FAAH 2070 | Renaissance to Baroque Art and Architecture | 3 |
| FAAH 2080 | Modern to Contemporary Art | 3 |
| FAAH 2090 | Art of the North American Aboriginal Peoples | 3 |
| FAAH 2110 | Women and Art | 3 |
| List B | | |
| School of Art | | |

| | | |
|-----------|--|---|
| FAAH 2910 | Field Studies in Art History 1 | 3 |
| FAAH 2920 | Field Studies in Art History 2 | 6 |
| FAAH 2930 | Writing about Art | 3 |
| FAAH 3130 | Topics in Medieval Art and Architecture | 3 |
| FAAH 3140 | Topics in Renaissance and Baroque Art and Architecture | 3 |
| FAAH 3150 | Topics in 18th and 19th Century Art | 3 |
| FAAH 3160 | Topics in 20th Century Art | 3 |
| FAAH 3180 | History of Photography | 3 |
| FAAH 3190 | History of Ceramics | 3 |
| FAAH 3200 | Art in New Media | 3 |
| FAAH 3202 | Contemporary Art History | 3 |
| FAAH 3212 | Introduction to the Theory of Art | 3 |
| FAAH 3220 | Topics in Aboriginal Art | 3 |
| FAAH 3230 | Chinese Art and Architecture | 3 |
| FAAH 3240 | Japanese Art and Architecture | 3 |
| FAAH 3250 | Topics in Art History | 3 |
| FAAH 3260 | Canadian Art and Architecture to World War II | 3 |
| FAAH 3270 | Canadian Art Since World War II | 3 |
| FAAH 3280 | Early Byzantine Art and Architecture | 3 |
| FAAH 3290 | Later Byzantine Art and Architecture | 3 |
| FAAH 3430 | Inuit Art | 3 |
| FAAH 3590 | Islamic Art and Architecture | 3 |
| FAAH 3780 | Twentieth Century American Art Until 1950 | 3 |
| FAAH 3930 | Introduction to Curatorial Studies | 3 |
| FAAH 4060 | Seminar on the Theory and Criticism of Art | 3 |
| FAAH 4070 | Seminar in Art History 1 | 3 |
| FAAH 4090 | Seminar on Contemporary Issues in Art | 3 |

| | | |
|-----------|------------------|---|
| FAAH 4710 | Directed Study 1 | 3 |
| FAAH 4720 | Directed Study 2 | 3 |

9.2 Faculty of Management/I.H. Asper School of Business

All courses offered by the Asper School of Business in the Faculty of Management are acceptable for credit in the Faculty of Arts. Management courses may be taken by Faculty of Arts students subject to availability of space and satisfaction of prerequisites.

Minor in Management

For entry to the Minor, the prerequisite is a grade of "C" or better in the first 6 hours of Management courses. The Management Minor will consist of any 18 credit hours in the Faculty of Management/Asper School of Business courses.

9.3 Faculty of Science

All Minors offered by the Faculty of Science can be used as satisfying the Faculty of Arts requirement of a Minor (Concentration); (for details, see the Faculty of Science chapter of this Calendar). In addition, Arts students may also choose a General or Advanced Major, or a Minor in Mathematics as described below.

The Mathematics General Major offered at the Université de Saint-Boniface differs from the one offered at the Fort Garry campus. For a complete description, consult the Université de Saint-Boniface's Calendar.

9.3.1 Mathematics

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|---|--------|
| GENERAL MAJOR TOTAL: 30 CREDIT HOURS | | | |
| MATH 12201, MATH 12301, MATH 12321, MATH 12401 | 18 credit hours of 2000, 3000 and/or 4000 level Mathematics courses (of these a minimum of 3 credit hours must be at the 3000 or 4000 level) | | |
| SINGLE ADVANCED MAJOR TOTAL: 48 CREDIT HOURS | | | |
| MATH 12201, MATH 12301, MATH 12321, MATH 12401 | MATH 2080, MATH 2090, MATH 2150 | <ul style="list-style-type: none"> • MATH 2020, MATH 2180, MATH 3470 • MATH 2160 or MATH 3440 • 15 credit hours from the following list of which at least 3 credit hours must be at the 3000 or 4000 level: MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160, MATH 2170, or any 3000 or 4000 level Mathematics course | |
| MINOR TOTAL: 18 CREDIT HOURS | | | |
| <ul style="list-style-type: none"> • MATH 12201, MATH 12301, MATH 12321 • 9 credit hours from: MATH 12401 and 2000 and/or 3000 level Mathematics courses | | | |

NOTES:

1 MATH 1500 or MATH 1510 may be taken in place of MATH 1230; MATH 1300 or MATH 1310 may be taken in place of MATH 1220; MATH 1700 or MATH 1710 may be taken in place of MATH 1232; MATH 1200 may be taken in place of MATH 1240, but these courses are not equivalent, i.e., students should note that MATH 1240 is a prerequisite to some 2nd year Mathematics courses for which MATH 1200 is not a prerequisite.

For entry to either Major in Mathematics, the prerequisite is a grade of "C+" or better in six hours of Mathematics courses taken.

For entry to the Minor in Mathematics, the prerequisite is a grade of "C" or better in six hours of Mathematics courses taken.

A detailed listing of courses in the Department of Mathematics is available in the Calendar entries of the Faculty of Science.

9.4 Interfaculty Option in Aging

Program Coordinator: Laura Funk

Program Office: 307 Isbister Building

Telephone: 204 474 6678

E-mail: laura.funk@ad.umanitoba.ca

The Interfaculty Option in Aging Concentration is available to students in all B.A. degree programs.

This Concentration is offered by: Arts, Nursing, Kinesiology and Recreation Management, and Social Work. To complete the Concentration, Arts students will need to complete each of the following: a) The Social Aspects of Aging, HMEC 2650 or REC 2650 or SWRK 2650; and b) Health and Physical Aspects of Aging, NURS 2610 or KIN 2610; and c) an additional twelve credit hours from the following courses:

| English, Theatre, Film & Media | | |
|---|------------------------------------|---|
| FILM 3420 | Film Theory | 3 |
| Psychology | | |
| PSYC 2360 | Brain and Behaviour | 3 |
| PSYC 2490 | Abnormal Psychology | 3 |
| PSYC 3070 | Adult Development | 3 |
| PSYC 3350 | Behaviour Neuroscience | 3 |
| PSYC 3490 | Individual Differences | 3 |
| PSYC 3610 | Memory | 3 |
| PSYC 4420 | Neuroimaging: Imaging and Thoughts | 3 |
| PSYC 4430 | Vision: Perception and Action | 3 |
| PSYC 4566 | Psychology of Health and Aging | 3 |
| Religion | | |
| RLGN 1410 | Death and Concepts of the Future | 3 |
| Sociology and Criminology | | |

| | | |
|----------|--|---|
| SOC 2310 | Selected Social Problems (acceptable for credit only when topic is "Canadian Social Issues") | 3 |
| SOC 2490 | Sociology of Health and Illness | 3 |
| SOC 2620 | Sociology of Aging | 3 |
| SOC 3540 | The Sociology of Health Care Systems | 3 |

Upon completion of these requirements, the Option in Aging will be recorded as a concentration on the student's official transcript. For information concerning the option, interested students are directed to faculty general offices.

E-mail: bachofed@umanitoba.ca
 Website: umanitoba.ca/education

Post Baccalaureate Diploma in Education (PBDE)

Telephone: (204) 474-7886
 Fax: (204) 474-7551
 E-mail: pbde@umanitoba.ca
 Website: umanitoba.ca/education

Graduate Studies in Education

Telephone: (204) 474-7886
 Fax: (204) 474-7551
 E-mail: edgradpr@umanitoba.ca
 Website: umanitoba.ca/education

SECTION 1: DEGREE AND DIPLOMA PROGRAMS OFFERED

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1.2 Professional Teacher Certification Requirements for Manitoba Education and Training

1.3 Specialized Certificate Programs

SECTION 2: ADMISSION TO BACHELOR OF EDUCATION & INTEGRATED BACHELOR OF MUSIC/BACHELOR OF EDUCATION PROGRAMS

2.1 Admission Requirements for Bachelor of Education After-Degree Program

2.2 Admission Requirements for Integrated Bachelor of Music/Bachelor of Education Degrees

2.3 Other Admission Requirements for After-Degree Bachelor of Education

2.4 Other Admission Requirements for After-Degree Bachelor of Education and Integrated Bachelor of Music/Bachelor of Education

Faculty of Education

Dean: David Mandzuk
 Associate Dean(s): Francine Morin (Undergraduate); Thomas Falkenberg (Graduate Programs, and Research)
 Campus Address/General Office: 203 Education Building
 Telephone: (204) 474-9004
 Fax: (204) 474-7551
 Website: umanitoba.ca/education
 Academic Staff: Please refer to the Faculty website at umanitoba.ca/faculties/education/directory/faculty-directory-index.html

Student Services Faculty of Education

B.Ed. Programs (including Integrated Music/Education)

Telephone: (204) 474-9004
 Fax: (204) 474-7551

2.5 Diversity Admission Category

2.6 Criminal Records and Child Abuse Registry

SECTION 3: AFTER DEGREE BACHELOR OF EDUCATION

3.1 Program Requirements for After-Degree Bachelor of Education

3.2 Early Years Stream Chart

3.3 Middle Years Stream Chart

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SECTION 4: INTEGRATED BACHELOR OF MUSIC/BACHELOR OF EDUCATION

4.1 Program Requirements for Integrated Bachelor of Music/Bachelor of Education

4.2 Integrated Music/Education Program Chart

SECTION 5: ACADEMIC REGULATIONS FOR BACHELOR OF EDUCATION

5.1 Academic Regulations for All Bachelor of Education Programs

5.2 Academic Regulations for the After-Degree Bachelor of Education

5.3 Academic Regulations for the Integrated Bachelor of Music/Bachelor of Education

SECTION 6: POST BACCALAUREATE DIPLOMA IN EDUCATION

6.1 Admission Requirements

6.2 Admission Procedure

6.3 Program Requirements

6.4 Academic Regulations

6.5 Transfer of Credit

6.6 Courses Grouped by Subject

SECTION 7: ADDITIONAL INFORMATION

7.1 Information Updates

7.2 Other Students

7.3 Program Days

7.4 Registration, Voluntary Withdrawal and Fee Refund Deadlines

SECTION 8: COURSE DESCRIPTIONS

SECTION 1: Degree and Diploma Programs Offered

1.1 Faculty of Education Programs

| Program/Degree | Years to Complete | Total Credit Hours |
|--|-------------------|--------------------|
| After-Degree Bachelor of Education | *2 | 60 |
| Integrated Bachelor of Music/Bachelor of Education | **5 | 174-177 |
| Post Baccalaureate Diploma in Education | *1 | 30 |

* Requires previous degree for entry.

** This includes two years (67 credit hours) of study in the Marcel A. Desautels Faculty of Music and includes two May-June school placements.

The educational objective of the Faculty of Education is to prepare students for a career in the teaching profession. Attaining the Bachelor of Education (B.Ed.) degree leads to professional certification by Manitoba Education and Training and the opportunity to attain employment as a classroom teacher in Manitoba and elsewhere. Those desiring other roles in education can achieve the professional requirements via the Post Baccalaureate Diploma in Education (PBDE) or graduate degrees in education (M.Ed. or Ph.D.)

1.1.1 After-Degree Bachelor of Education: Early Years, Middle Years and Senior Years

Following the completion of a first bachelor's degree of at least 90 credit hours (three years in duration), the After-Degree B.Ed. is a two year program consisting of 60 credit hours of coursework taken within the Faculty of Education and leads to general certification and a B.Ed. degree. Current certification requirements for the Province of Manitoba require twenty-four weeks of practicum which are completed as part of the 60 credit hours required for the After-Degree B.Ed.

1.1.2 Integrated Bachelor of Music/Bachelor of Education Degrees (Intake for this program is currently suspended)

The Marcel A. Desautels Faculty of Music offers a degree program that integrates the requirements of its degree program with those of the Faculty of Education After-Degree B.Ed. program. The integrated program is five years in length, leading to general certification and preparing of teachers for specialist Music and classroom teaching. Both degrees are awarded upon completion of the five year program. See [sections 1 and 5 of the chapter for the Marcel A. Desautels Faculty of Music](#) for information.

1.1.3 Post Baccalaureate Diploma in Education

Designed for teacher professional development, the Post Baccalaureate Diploma in Education (PBDE) is a 30 credit hour program following completion of an undergraduate degree, normally a B.Ed. degree.

1.2 Professional Teacher Certification Requirements for Manitoba Education and Training

During the final year of the B.Ed. degree, the university will provide a list of potential B.Ed. graduates to the Professional Certification Unit, Manitoba

Education and Training and make a recommendation that they be granted the Professional Certificate which is permanent and entitles the holder to teach any subject at any level (K-12) in Manitoba. Students are required to apply for certification. The application form and specific requirements for certification can be found at <http://www.edu.gov.mb.ca/k12/profcert/certificates/bedgradap.html>.

1.3.1 Certificate in Adult and Continuing Education

The following four courses in addition to 100 hours in elective courses offered through Extended Education will complete a Certificate in Adult and Continuing Education (CACE). For further information contact Extended Education @ (204) 474-8917.

EDUA 1560 Adult Learning and Development (3)

EDUA 1570 Foundations of Adult Education (3)

EDUA 1580 Program Planning in Adult Education (3)

EDUA 1590 Facilitating Adult Education (3)

SECTION 2: Admission to Bachelor of Education & Integrated Bachelor of Music/Bachelor of Education Programs

2.1 Admission Requirements for After-Degree Program

All After-Degree B.Ed. applicants must choose a stream: Early, Middle or Senior and must meet the requirements outlined below (see 2.1.1 and 2.1.2). In addition, see sections 2.3 Other Admission Requirements; 2.4 Diversity Admission Category; and 2.5 Criminal Records and Child Abuse Registry.

2.1.1 Early and Middle Years Programs

A recognized bachelor's degree of a minimum of 90 credit hours and the requirements for two different subjects plus a breadth component as follows:

- 18 credit hours in a teachable major ¹
- 12 credit hours in a teachable minor ¹
- 6 credit hours English literature or French literature
- 6 credit hours Social Studies (History or Geography)
- 6 credit hours Mathematics (or Statistics)
- 6 credit hours Science (Biology, Chemistry, Environmental Science, Geology or Physics).

¹See Chart 2.1.1.1 below.

2.1.2 Senior Years Programs

A recognized bachelor's degree of a minimum of 90 credit hours and the requirements for two different subjects:

- 30 credit hours in a teachable major ²
- 18 credit hours in a teachable minor ²

²See Chart 2.1.2.1 below.

2.1.1.1 Applicable Early and Middle Years teachable majors and minors

Applicable subjects for both majors & minors

| | | | |
|--|--|---|-------------------------------------|
| Art ¹ | Computer Science ² (Middle Years Only) | Drama/Theatre | English (Language Arts) |
| French | General Science ³ (Major only) | Geography ⁴ | History ⁵ |
| Human Ecology ⁶ (Home Economics) (Middle Years Only) | Mathematics ⁷ | Music ⁸ | Native Studies ⁹ |
| Physical Education ¹⁰ | Second Language ¹¹ | | |
| Additional teachable minors: in addition to the teachable areas above, the Minister of Education recognizes the following as minors only. | | | |
| Anthropology | Classics | Dance | Developmental Studies ¹² |
| Earth Science (Geological Science) | Economics | Environmental Science (Environmental Studies) | Law |
| Philosophy | Political Studies (Political Science) | Psychology | Religious Studies |
| Sociology | | | |

¹ Art: Middle Years applicants must possess a minimum of 12 credit hours of studio courses for a major and 9 credit hours of studio courses for a minor. Early Years applicants have no specific course requirements.

² Computer Science: Applicable for Middle Years applicants only.

³ General Science: Major only. This is not available as a minor teachable area. Must include three (3) (only) Science disciplines (Biology/Biological Science, Chemistry, Computer Science, Environment Science, Geological Science, and Physics. Does not include Geography courses). A minimum of 3 credit hours is required in each of the three disciplines. Additionally, 3 credit hours must be at the 2000 level or above.

⁴ Geography: Must include 6 credit hours of Canadian and/or North American content.

⁵ History: Must include 6 credit hours of Canadian and/or North American content.

⁶ Human Ecology: Applicable for Middle Years applicants only. Consists of courses with the designation of HNSC (Human Nutritional Sciences), FMLY (Family Social Science), TXSC (Textile Science) and/or HMEC (General Human Ecology) or their equivalents. Future applicants are encouraged to contact the Faculty of Education for guidance.

⁷ Mathematics: A minimum of 6 credit hours must be above the 1000 level. Both major and minor may include courses from either the department of Mathematics and/or the department of Statistics.

⁸ Music: Middle Years applicants must possess a major or minor in one of the following specializations: Choral, Early/Middle or Instrumental music. (See 4.2.1 Integrated Music Specializations and Music Education Electives Chart for list of acceptable courses). Applicants must declare two different subjects areas as their teachables (Example: A major in Music: Choral and a

minor in Mathematics). Early Years applicants have no specific course requirements.

⁹ Native Studies: May include 6 credit hours of a Native Language course.

¹⁰ Physical Education: Courses with a PHED designation will fulfill this requirement. In addition, PERS 1200, 1500, 2200, 3100, 3170, 3340 & 3460 will meet the teachable requirements.

¹¹ Second Language: Language other than English or French

¹² For applicable coursework see the Faculty of Education website <http://umanitoba.ca/faculties/education/future/developmental-minor-courses.html>

2.1.2.1 Applicable Senior Years teachable majors and minors

| Applicable subjects for both majors & minors | | | |
|--|-----------------------------|---|------------------------------|
| Art ¹ | Biology | Chemistry | Computer Science |
| Drama/Theatre | English (Language Arts) | French | General Science ² |
| Geography | History | Human Ecology ³ (Home Economics) | Mathematics ⁴ |
| Music ⁵ | Native Studies ⁶ | Physical Education ⁷ | Physics |
| Second Language ⁸ | | | |

¹ Art: Applicants must possess a minimum of 18 credit hours of studio courses for a major and 12 credit hours of studio courses for a minor.

² General Science: Must include two (only) Science disciplines (Biology/Biological Science, Chemistry, Computer Science, Environment Science, Geological Science, and Physics. Does not include Geography courses). A minimum of 3 credit hours is required in each of the two disciplines. Additionally, applicants selecting this major must present 3 credit hours at the 3000 level or above; and, applicants selecting this minor must present 6 credit hours at the 2000 level or above.

³ Human Ecology: Consists of courses with the designation of HNSC (Human Nutritional Sciences), FMLY (Family Social Science), TXSC (Textile Science) and/or HMEC (General Human Ecology) or their equivalents. Future applicants are encouraged to contact the Faculty of Education for guidance.

⁴ Mathematics: A minimum of 6 credit hours must be above the 1000 level. Both major and minor may include courses from either the department of Mathematics and/or the department of Statistics.

⁵ Music: Applicants must possess a major or minor in one of the following specializations: Choral, Early/Middle or Instrumental music. (See 4.2.1 Integrated Music Specializations and Music Education Electives Chart for list of acceptable courses). Applicants must declare two different subjects areas as their teachables (Example: A major in Music - Choral and a minor in Mathematics).

⁶ Native Studies: May include 6 credit hours of a Native Language course.

⁷ Physical Education: Courses with a PHED designation will fulfill this requirement. In addition, PERS 1200, 1500, 2200, 3100, 3170, 3340 & 3460 will meet the teachable requirements.

⁸ Second Language: Language other than English or French

2.2 Admission Requirements for Integrated Bachelor of Music/Bachelor of Education Degrees

Intake for this program is currently suspended.

2.3 Other Admission Requirements for After-Degree Bachelor of Education

Minimum admission GPA for consideration: 2.50 on university coursework with a minimum grade of "C" in each teachable major/minor course and in breadth component coursework, if required. The admission GPA is calculated on the most recent 30 credit hours of university coursework available at February 1 of admission year. Courses graded 'Satisfactory' or 'Pass' will be used within the teachable courses, but excluded from the GPA calculation. International Baccalaureate (IB) and Advanced Placement (AP) will follow the University of Manitoba regulations and will be calculated if part of the above mentioned 30 credit hours.

To be eligible for the After-Degree program, applicants must have a conferred bachelor's degree and all course requirements as stipulated in 2.1 at the 1000 level or higher completed from a recognized institutions by May 1 of the year of application.

In addition to criteria outlined above, all applicants must complete:

- writing skills exercise
- references

Selection criteria: 69.0% on GPA; and 31.0% on writing skills.

2.4 Other Admission Requirements for After-Degree Bachelor of Education and Integrated Bachelor of Music/Bachelor of Education

In addition to criteria outlined above, all applicants must complete:

- writing skills exercise
- references

Selection criteria: 69.0% on GPA; and 31.0% on writing skills.

2.5 Diversity Admission Category

The Faculty of Education has a Diversity Admissions Category. The Faculty recognizes the importance of providing the highest quality of education to all students in Manitoba via a teaching force that is fully representative of the cultural, ethnic and racial diversity of the province.

As the largest teacher education institution in the province, the Faculty recognizes its responsibility to facilitate the development of such a teaching force. Furthermore, the Faculty recognizes the need to ensure that its recruitment and admission policies and procedures do not inappropriately obstruct the achievement of such a goal, but rather actively promote its attainment.

In keeping with the above, the Faculty will admit up to forty-five percent (45%) of the After-Degree B.Ed. applicants under this policy. For the purposes of self-identification, the Diversity Admissions Categories include: Canadian Indigenous Peoples, Racialized Persons, Persons with Gender Identity/Sexual Orientation Difference, Persons with Disabilities, and Disadvantaged Persons.

Canadian Indigenous Peoples (Allocations 15% of each stream) – This includes Canadian First Nations, Metis, and Inuit peoples.

Racialized Persons (Allocation 7.5% of each stream) – This includes those who have been treated differently by people or institutions on the basis of their

perceived racial backgrounds, colour, and/or ethnicity. This diversity category includes non-Canadian Indigenous peoples.

Persons with Gender Identity/Sexual Orientation Difference (Allocation 7.5% of each stream) – This includes persons who self-identify as lesbian, gay, bisexual, transgender/transsexual, two spirit or queer (LGBTQQ).

Persons with Disabilities (Allocation 7.5% of each stream) – This includes those who have a diagnosed physical, mental, psychological, sensory or diagnosed learning disability.

Disadvantaged Persons (Allocation 7.5% of each stream) – A student graduating from the University of Manitoba ACCESS¹ Program from an Undergraduate Degree Program in May of the application year or in October of the preceding year. For those applying to the Integrated Music/Education Program, a student currently registered in the University ACCESS¹ Program or those who have experienced systemic barriers and/or inequalities on the basis of their religion, creed, language or state of social disadvantage.

All information on admission requirements are described in detail in the applicant information bulletin that includes application deadline dates and information about applying online. This material is available from Student Affairs: Enrolment Services: Admissions, 424 University Centre or online at: <http://umanitoba.ca/student/admissions/application/programs/education-application.html>

¹ For the purpose of admission, the Faculty of Education follows the University of Manitoba criteria for ACCESS Program applicants, that is: those who have not had the opportunity for university studies at the degree level because of social, economic and cultural reasons, lack of formal education or residence in remote areas.

2.6 Criminal Records and Child Abuse Registry

All applicants offered admission to the After-Degree Bachelor of Education and the Integrated Bachelor of Music/Bachelor of Education programs are required to complete the “Self-Declaration for Newly Admitted Students: Child Abuse Registry and Statement of Criminal Records” form as a condition of final acceptance to the program. Only adult convictions must be disclosed, and the existence of such a record will not automatically exclude applicants.

In addition to the above self-declaration, all successful applicants will be conditionally admitted pending clearance of an official Criminal Record Search (including vulnerable sector screening) and clearance from the Child Abuse Registry. Both documents must be current (dated April 1 or later of admit year). Registration will not be permitted until these clearances are received. Failure to clear or failure to provide these documents by the stated deadline (see Applicant Bulletin) will result in admission offer being revoked. It is strongly recommended that applicants order these documents immediately following admission offer.

SECTION 3: Program Requirements After-Degree Bachelor of Education

The following program requirements are for students accepted into the After-Degree B.Ed. program commencing September 2015.

For students admitted prior to September 2015, please refer to 2014-2015 Academic Calendar - Undergraduate PDF or Archived Academic Calendars at: <http://umanitoba.ca> (Studying at the U of M / Academic Calendar).

REMINDER: While Education Academic Advisors are available to clarify faculty and university regulations and degree requirements, it is the

student’s responsibility to ensure that degree and program requirements are met.

3.1 Program Requirements for After-Degree Bachelor of Education

3.1.1 Application Deadline for School Placement

Actively registered After-Degree B.Ed. students will be contacted by February via email requesting that they complete an online “Request for School Placement” and must reply by the date specified in the email.

Part time students or students not currently in attendance must contact the B.Ed. Student Services office no later than February 1 to make their intentions known. Failure to reply or make contact by the specified dates may result in students being denied a school placement.

After-Degree B.Ed. students who anticipate needing special accommodations are required to register with Student Accessibility Services and to speak with an Academic Advisor about the kinds of supports they may need. Once students have registered with Student Accessibility Services, reasonable accommodations for practicum can be made in consultation with the Director of the School Experience Office (SEO).

3.1.2 Student Criminal Background Check

Applicants should also be aware that the Professional Certification Unit will require students graduating from the Bachelor of Education program to undergo a criminal record check, including vulnerable sector screening as part of the certification process. Information on the “Self-Declaration for Newly Admitted Students: Child Abuse Registry and Statement of Criminal Records” form is included in the applicant information bulletin available from Student Affairs: Enrolment Services: Admissions, 424 University Centre or at: <http://umanitoba.ca/student/admissions/application/programs/education-application.html>.

All continuing students will be required to complete and submit a “Self-Declaration for Continuing Students: Child Abuse Registry and Statement of Criminal Records” form prior to registration for every year they are enrolled in the After-Degree B.Ed. program.

3.1.3 Orientation and Faculty Program Days

All After-Degree B.Ed. and Integrated B.Mus./B.Ed. students registered for the current academic year must attend the annual Orientation session (late August/early September) in order to proceed to Practicum. The date will be provided to new students following submission of their deposit (April/May), to returning students via the B.Ed. Newsletter (in the previous March-May), and to all students via their registration information in June/July. Orientation dates will also be available on the Faculty website.

The Faculty sponsors a number of lectures, workshops and forums. Details will be posted on the faculty's website: <http://umanitoba.ca/education>.

3.2 Early Years Stream Course Chart

| Early Years Stream | | | |
|--------------------|-----------|-----------|---------------------------------|
| Year 1 | | Year 2 | |
| Fall | Winter | Fall | Winter |
| EDUB 3012 | EDUB 3016 | EDUB 4010 | EDUB 4014 |
| EDUB 3010 | EDUB 3014 | | EDUA/EDUB Elective ³ |

| | | | |
|---|-------------------------|-------------------------|---------------------------------|
| Aboriginal Education ¹ | EDUB 3018 ² | EDUB 4012 | EDUA/EDUB Elective ³ |
| EDUA 3000 or EDUA 3002 | EDUA 3000 or EDUA 3002 | | EDUA 4000 |
| EDUB 3310 (Practicum 1) | EDUB 3312 (Practicum 2) | EDUB 4310 (Practicum 3) | EDUB 4312 (Practicum 4) |
| 15 Credit Hours | 15 Credit Hours | 15 Credit Hours | 15 Credit Hours |
| <p>1 All graduates of the After-Degree B.Ed. program must have 3 credit hours of Aboriginal Education coursework chosen from: EDUA 3400 or EDUB 3402.</p> <p>2 Meets the Special Education/Diversity coursework requirement.</p> <p>3 See 5a: Education Electives</p> | | | |

3.3 Middle Years Stream Course Chart

Middle Years Stream

| Year 1 | | Year 2 | |
|---|--|---------------------------------|-------------------------|
| Fall | Winter | Fall | Winter |
| EDUB 3050 | EDUB 3052 | EDUB 3060 | EDUB 4050 |
| EDUB 3056 | EDUB 3054 | EDUB 3062 | EDUB 3058 |
| Aboriginal Education ¹ or Special Education /Diversity ² | Aboriginal Education ¹ or Special Education /Diversity ² | EDUB 3064 | EDUB 4052 |
| EDUA 3000 or EDUA 3002 | EDUA 3000 or EDUA 3002 | EDUA/EDUB Elective ³ | EDUA 4000 |
| EDUB 3320 (Practicum 1) | EDUB 3322 (Practicum 2) | EDUB 4320 (Practicum 3) | EDUB 4322 (Practicum 4) |
| 15 Credit Hours | 15 Credit Hours | 15 Credit Hours | 15 Credit Hours |
| <p>¹ All graduates of the After-Degree B.Ed. program must have 3 credit hours of Aboriginal Education coursework chosen from: EDUA 3400 or EDUB 3402.</p> <p>² All graduates of the After-Degree B.Ed. program must have 3 credit hours of Special Education/Diversity coursework chosen from: EDUA 3420, EDUB 1620, EDUB 1820, or EDUB 3426.</p> <p>³ See 5a: Education Electives</p> | | | |

3.4 Senior Years Stream Course Chart

Senior Years Stream

| Year 1 | | Year 2 | |
|---|---|---|---------------------------------|
| Fall | Winter | Fall | Winter |
| EDUB 3100 | EDUB 3102 | EDUB 4XXX ^{4,5} Curriculum & Instruction | EDUB 4102 |
| EDUB 3XXX ³ Curriculum & Instruction | EDUB 4XXX ^{4,5} Curriculum & Instruction | EDUA/EDUB Electives ⁶ | EDUB 4100 |
| Aboriginal Education ¹ or Special | Aboriginal Education ¹ or Special | EDUA/EDUB Electives ⁶ | EDUA/EDUB Elective ⁶ |

| | | | |
|--|------------------------------------|-------------------------|---------------------------------|
| Education / Diversity ² | Education / Diversity ² | | |
| EDUA 3000 or EDUA 3002 | EDUA 3000 or EDUA 3002 | EDUA 4000 | EDUA/EDUB Elective ⁶ |
| EDUB 3330 (Practicum 1) | EDUB 3332 (Practicum 2) | EDUB 4330 (Practicum 3) | EDUB 4332 (Practicum 4) |
| 15 Credit Hours | 15 Credit Hours | 15 Credit Hours | 15 Credit Hours |
| <p>¹ All graduates of the After-Degree B.Ed. program must have 3 credit hours of Aboriginal Education coursework chosen from: EDUA 3400 or EDUB 3402.</p> <p>² All graduates of the After-Degree B.Ed. program must have 3 credit hours of Special Education/Diversity coursework chosen from: EDUA 3420, EDUB 3506, EDUB 3508 EDUB 3510 or EDUB 3426.</p> <p>³ 3 credit hours chosen from EDUB 3110, EDUB 3120, EDUB 3130 or EDUB 3140 dependent on Major subject area.</p> <p>⁴ 3 credit hours chosen from EDUB 4110, EDUB 4112, EDUB 4114, EDUB 4120, EDUB 4122, EDUB 4124, EDUB 4130, EDUB 4132, EDUB 4134, EDUB 4140, EDUB 4142, EDUB 4144, EDUB 4146, EDUB 4148, EDUB 4150, EDUB 4152, EDUB 4154 as required for major and as required for minor. Not all courses are offered every year.</p> <p>⁵ Registration in EDUB 4XXX is dependent on scheduling. May require 6 credits of EDUB 4XXX for both subject areas to be taken in second term of program.</p> <p>⁶ See 5a: Education Electives</p> | | | |

SECTION 4: Program Requirements Integrated Bachelor of Music/Bachelor of Education

For students admitted 2016 and earlier

REMINDER: While Education Academic Advisors are available to clarify faculty and university regulations and degree requirements, it is the student's responsibility to ensure that degree and program requirements are met.

4.1 Program Requirements for Integrated Bachelor of Music/Bachelor of Education (Intake Suspended)

4.1.1 Application Deadline for School Placement

Actively registered Year 3 & 4 Integrated Bachelor of Music/Bachelor of Education (B.Mus./B.Ed.) students will be contacted in October regarding their intentions for the upcoming summer session practicum via email, and must reply by the date specified in the email. Part time students or students not currently in attendance should contact the B.Ed. Student Services office no later than November 1 to make their intentions known. Failure to reply by the specified dates may result in students being denied a school placement.

Actively registered Integrated B.Mus./B.Ed. students intending to proceed to Year 5 (final year) will be contacted by February via email requesting that they complete an online "Request for School Placement" and must reply by the date specified in the email. Part time students or students not currently in attendance who intend to proceed to Year 5 (final year) should contact the B.Ed. Student Services office no later than February 1 to make their intentions known. Failure to reply by the specified dates may result in students being denied a school placement.

Integrated B.Mus./B.Ed. students who anticipate needing special accommodations are required to register with [Student Accessibility](#)

[Services](#) and to speak with an Academic Advisor about the kinds of supports they may need. Once students have registered with Student Accessibility Services, reasonable accommodations for practicum can be made in consultation with the Director of the School Experience Office (SEO).

4.1.2 Student Criminal Background Check

Newly admitted Integrated B.Mus./B.Ed. students should also be aware that the Professional Certification Unit will require students graduating from the Bachelor of Education program to undergo a criminal record check, including vulnerable sector screening as part of the certification process. Information on the “Self-Declaration for Newly Admitted Students: Child Abuse Registry and Statement of Criminal Records” form is included in the applicant information bulletin available from Enrolment Services: Admissions, 424 University Centre and the website:

<http://umanitoba.ca/student/admissions/application/programs/education-application.html>.

All continuing students will be required to complete and submit a “Self-Declaration for Continuing Students: Child Abuse Registry and Statement of Criminal Records” form prior to registration for every year they are enrolled in the Integrated B.Mus./B.Ed. program.

4.1.3 Orientation and Faculty Program Days

All After-Degree B.Ed. and Integrated B.Mus./B.Ed. students registered for the current academic year must attend the annual Orientation session (late August/early September) in order to proceed to Practicum. The date will be provided to new students following submission of their deposit (April/May), to returning students via the B.Ed. Newsletter (in the previous March-May), and to all students via their registration information in June/July. Orientation dates will also be available on the Faculty website.

The Faculty sponsors a number of lectures, workshops and forums. Details will be posted on the faculty's website: <http://umanitoba.ca/education>.

4.2 Integrated Music/Education Program/Course Chart

Students choose a specialization in Music (see chart 4.2.1 below) for their teachable major and a subject other than Music for their teachable minor.

Students who complete the program of studies satisfactorily receive a Bachelor of Music (B.Mus.) degree and a Bachelor of Education (B.Ed.) degree. Students are expected to maintain academic standards consistent with the granting of the degrees in non-integrated programs.

| Integrated Music/Education Program | | | | |
|------------------------------------|---------------------------------------|------------------------|------------------------|-----------|
| Year 1 | Year 2 1 | Year 3 | Year 4 | Year 5 |
| MUSC 1004 | Core Music History Elective MUSC XXXX | MUSC 3180 or MUSC 3182 | MUSC 3974 | EDUB 2980 |
| MUSC 1014 | Core Music History Elective MUSC XXXX | MUSC 3190 or MUSC 3192 | MUSC 4180 or MUSC 4182 | EDUA 1800 |
| MUSC 1110 | MUSC 2110 | MUSC 3470 | MUSC 4190 or MUSC 4192 | EDUA 3002 |
| MUSC 1120 | MUSC 2120 | MUSC 3964 | MUSC 4470 | EDUB 1990 |

| | | | | |
|------------------------------------|------------------------|---------------------------------|---------------------------------|----------------------------|
| MUSC 1180 or MUSC 1182 | MUSC 2180 or MUSC 2182 | MUSC XXXX 4 | EDUB 4112 5 or EDUB 2160 5 | EDUA 2800 |
| MUSC 1190 or MUSC 1192 | MUSC 2190 or MUSC 2192 | MUSC XXXX 4 | | EDUA 3000 |
| MUSC 1384 | MUSC 2384 | EDUB 3110 | MUSC XXXX 4 | EDUB 2500 6 |
| MUSC 1394 | MUSC 2394 | EDUB 1600 | MUSC XXXX 4 | EDUB 3102 6 |
| MUSC 1400 or MUSC 1404 & MUST 1414 | MUSC 2400 | Teachable Minor 3 | MUSC XXXX 4 | EDUB 1XXX 7 or EDUB 1614 7 |
| MUSC 3230 or MATH 1XX or STAT 1XXX | MUSC 2460 | | | |
| ENGL 1XXX | Teachable Minor 2,3 | Teachable Minor 3 | MUSC XXXX 4 | |
| | Teachable Minor 2,3 | See “NOTE” Below | Teachable Minor 3 | |
| | | See “NOTE” Below | Teachable Minor 3 | |
| | | Summer Session EDUB 1940 | Summer Session EDUB 1950 | |

1 Apply to Faculty of Education, Integrated Music/Education Program during Year 2. Deadline to apply is February 1.

2 Students must choose one of the following for their minor: Art, Biology, Chemistry, Computer Science, English, French, General Science, Geography, History, Human Ecology (Home Economics), Mathematics, Native Studies, Physical Education, Physics, Second Language (other than English or French), or Drama/Theatre.

3 Some minors have specific level/course requirements. See the Applicant Information Bulletin for After-Degree B.Ed. (Senior Years) for specifics or contact a student advisor in the Faculty of Education B.Ed. Student Services office. Some minors have pre-requisite courses or faculty restrictions and may be problematic to complete in a timely manner.

4 See Chart 4.2.1 to determine course requirements.

5 Students with Instrumental & Choral Specialization will take EDUB 4112 and students with Early/Middle Specialization will take EDUB 2160.

6 Students with an Early or Middle specialization; replace EDUB 2500 and EDUB 3102 with EDUA/EDUB elective courses (see 5a: Education Electives).

7 Students with an Early/Middle specialization take EDUB 1614. Students with Instrumental & Choral Specializations take Year 1 Curriculum & Instruction course for minor.

NOTE: Prior to beginning Year 5 all B.Ed. students must have completed the Aboriginal Education Requirement and the Special Education/Diversity Requirement which is defined as 3 credit hours Aboriginal Education (EDUA 3400 Aboriginal Education or EDUB 3402

Aboriginal Perspectives and the Curriculum) and 3 credit hours Special Education/Diversity (EDUA 3420 Cross Cultural Education, EDUB 3506 Principles and Procedures of Second Language Education, EDUB 3508 Language and Content Instruction of EAL Students, EDUB 3510 Language Awareness for Teachers or EDUB 3426 La pédagogie du français de base aux niveaux intermédiaire et de la jeune enfance).

4.2.1 Integrated Music Specializations and Music Education Electives Chart

| Integrated Music Specializations | | | Music Education Electives | |
|-------------------------------------|---|---|---------------------------|-----------|
| Instrumental Music Required Courses | Choral Music Required Courses | Early/Middle Years Music Required Courses | Music Education Electives | |
| MUSC 3690 | MUSC 3770 | MUSC 3130 | MUSC 3090 | MUSC 3780 |
| MUSC 3780 | MUSC 3884 | MUSC 3730 | MUSC 3130 | MUSC 3790 |
| MUSC 3790 | MUSC 4154 | MUSC 3770 | MUSC 3140 | MUSC 3800 |
| MUSC 3884 | MUSC 4750 | 6 credit hours Music Education Elective | MUSC 3150 | MUSC 3884 |
| MUSC 4770 | MUSC 4760 | The Marcel A. Desautels Faculty of Music recommends as the 6 credit hours Music Education Electives: MUSC 3140 or MUSC 4750 & MUSC 4760 | MUSC 3360 | MUSC 3894 |
| MUSC 4780 | 3 credit hours Music Education Elective | | MUSC 3690 | MUSC 4154 |
| | | | MUSC 3620 | MUSC 4350 |
| | | | MUSC 3730 | MUSC 4750 |
| | | | MUSC 3770 | MUSC 4760 |
| | | | | MUSC 4770 |
| | | | | MUSC 4780 |
| | | | | |

SECTION 5: Academic Regulations for Bachelor of Education

The following academic regulations are for students accepted into the After-Degree B.Ed. program commencing September 2015 and Integrated B.Mus./B.Ed. program.

For students admitted prior to September 2015, please refer to 2014-2015 Academic Calendar - Undergraduate PDF or Archived Academic Calendars at: <http://umanitoba.ca> (Studying at the U of M, Academic Calendar)

The provisions of the Academic Calendar chapters, [General Academic Regulations](#) and [University Policies](#) and Procedures, apply to all students. In addition, the Faculty of Education has regulations and requirements, published below, that apply specifically to its students.

5.1 Academic Regulations of All Bachelor of Education Programs

5.1.1 Academic Requirement for Graduation

A DGPA of 2.50 is required for graduation in the B.Ed.

5.1.2 Academic Standing

A minimum DGPA of 2.50 must be maintained in the B.Ed. program for clear standing. A grade of "C" or a Pass (P) is a passing grade for Education courses including practicum.

5.1.3 Additional Academic Considerations

Each student in the Faculty of Education is presumed to be generally suited to a teaching program. Should this prove not to be the case, the Faculty reserves the right, at any time, to require a student to withdraw from the B.Ed. program. Unsatisfactory performance in Practicum courses may be considered reason to require a B.Ed. student to withdraw from the faculty. See Professional Unsuitability By-Law in this section.

5.1.4 Appeal Procedures

The general university policy for appeal of assigned grades applies to the Faculty of Education. See the Academic Calendar chapter, General Academic Regulations, Appeals of Assigned Grades. Information about admission decision appeals may be found in the Academic Calendar chapter, Admissions.

5.1.5 Assessment of Student Academic Performance

Academic performance is assessed at the end of each regular term in which the B.Ed. student is registered in all courses that are used for credit towards the B.Ed. degree. Decisions concerning academic standing are normally made upon initial completion of 15 credit hours.

Based on the DGPA attained in these courses, the following decisions with respect to the student's eligibility to continue as a Faculty of Education B.Ed. student will be made.

5.1.5.1 Eligible to Proceed

The student with a minimum of 2.50 is eligible to proceed.

5.1.5.2 Academic Probation

The student who passes all courses, but whose DGPA is below 2.50 but above 1.99 is placed on academic probation

The student with failing grades whose DGPA is below 2.50 but above 1.99 may be granted permission to repeat and/or replace the failed courses and permission to proceed on probation until completion of an additional 15 credit hours of Education coursework

Students placed on academic probation may continue on probation until they have completed an additional 15 credit hours of required degree coursework. To clear probation, a student must raise their DGPA to 2.50 by the end of the probationary period. Students on probation who fail to raise the DGPA to at least 2.50 will be required to withdraw on academic grounds (suspension) for a period of two years.

5.1.5.3 Academic Suspension

Any student who does not meet the minimum academic requirements or whose DGPA is below 2.00 shall be required to withdraw on academic grounds (suspension) from the Faculty of Education for a period of two academic years.

Students who have been required to withdraw on academic grounds will be informed via registered mail. These students may not register at the university for two academic years. Following this period, students wishing to pursue a B.Ed. degree, must make a written request for reinstatement. The following will apply in such cases:

No application for reinstatement will be considered before a minimum period of two academic years has lapsed from the effective date of the required withdrawal to the effective date of the requested reinstatement.

The applicant will be expected to demonstrate that he or she will now be able to meet the academic requirements of the program.

If the student is reinstated after the time limit for program completion has expired (see Statute of Limitation section below), the Associate Dean (Undergraduate) shall determine which, if any, courses previously successfully completed shall be repeated or replaced.

5.1.6 Attendance at Class/Withdrawal

Regular attendance is expected for all students in all courses, including practicum. An instructor or Associate Dean Undergraduate in consultation with the instructor, will normally initiate procedures to withdraw a student from a course where unexcused absences exceed 10% of the scheduled instructional class hours for a course in any one term, or where absences (excused or unexcused) reach 20% or higher of the scheduled class instructional hours for a course in any one term.

Students must contact instructors regarding absences. Students may be required to complete alternative professional learning activities.

The Director of Practicum & Partnerships can initiate proceedings to withdraw a student from a practicum course where absences from required practicum days, excused or unexcused, cannot be made up within the term.

See Attendance Policy (http://umanitoba.ca/faculties/education/media/BEd_Attendance_Policy_Sept17_2014.pdf) for details.

See the Academic Calendar chapter General Academic Regulations, [Attendance and Withdrawal](#)

5.1.7 Authorized Withdrawals

Authorized Withdrawals (AWs) may be permitted on medical or compassionate grounds, subject to satisfactory documentation. Students must contact an Education Academic Advisor to initiate an authorized withdrawal.

5.1.8 Dean's Honour List

Students registered in a minimum of 12 credit hours within a single term and who achieve a Term Grade Point Average of 3.90 or better will be included in the Dean's Honour List. Grades for coursework taken on a Letter of Permission and used towards the B.Ed. degree will be used in meeting the eligibility requirements of the Dean's Honour List.

Students receiving failing grades where such coursework is required to earn the B.Ed. degree and/or practicum will not be eligible for the Dean's Honour List.

Eligible students must be enrolled in either the After-Degree B.Ed. program or the Integrated B.Mus./B.Ed. programs.

5.1.9 Degree with Distinction

A student graduating from the After-Degree B.Ed. program will have the degree granted "With Distinction" if a minimum DGPA of 4.20 has been attained on all courses that are used for credit towards the B.Ed. degree. This distinction will be noted on the parchment and on the student's transcript.

5.1.10 Gold Medal

The Gold Medal is awarded each year to the B.Ed. graduate who has the highest GPA (minimum 3.75) in the last 60 credit hours of the B.Ed. degree and who has completed at least 80 percent of what is considered to be the normal full course load in each of the last two years of the program.

5.1.11 Grading Scale

| Letter Grade | Grade Point | Level of Achievement | Percentage Range |
|--------------|-------------|----------------------|------------------|
| A+ | 4.50 | Exceptional | 95 and above |
| A | 4.00 | Excellent | 90-94 |
| B+ | 3.50 | Very Good | 85-89 |
| B | 3.00 | Good | 80-84 |
| C+ | 2.50 | Satisfactory | 75-79 |
| C | 2.00 | Adequate | 70-74 |
| D | 1.00 | Unacceptable | 60-69 |
| F | 0.00 | Failure | Below 60 |

The required B.Ed. Practicum courses are marked on a Pass/Fail basis.

A minimum grade of "C" or a Pass (P) is required for all B.Ed. courses.

5.1.12 Incompletes

See the Academic Calendar chapter, General Academic Regulations, Academic Evaluation.

5.1.13 Leave of Absence and Part-Time Studies

Although most students will complete the After-Degree B.Ed. program in two years, the Faculty recognizes that individual circumstances may arise that require a student to take one or more full years away from study. In such cases a student should meet with an Education Academic Advisor as early as possible to discuss their particular situation and to map out plans for completing their program. It is important to note that in such cases the following applies:

- Newly admitted students must successfully complete a minimum of 3 credit hours of required B.Ed. coursework in the fall or winter term of the year of admission. That is, a leave of absence is not permitted in the first year.
- The normal maximum time allowed for completion of the B.Ed. program is six years from the date of admission.
- Application to return for a practicum following a leave must be made by the deadline stated under "Application Deadline for School Placement" in the "Program Requirements" sections.
- Any student returning to resume studies after a leave of absence is expected to conform to any new requirements that have been approved during their absence.
- A student who is on a leave of absence is still considered to be within the B.Ed. program and therefore, cannot take courses at another post-secondary institution unless approved on a Letter of Permission (see the Academic Calendar, General Academic Regulations, Academic Evaluation 2.1).

Students considering part-time options should note that required B.Ed. courses may not always be offered each term or each year (for example, Senior Years C & I in Physics is offered in alternate years). Therefore, students should consult with an Academic Advisor when considering part-time options.

5.1.14 Professional Unsuitability By-Law

The Senate of the University has approved a by-law granting authority to the Faculty of Education to require a student to withdraw from the Faculty for reasons of professional unsuitability. A student may be required to withdraw from the Faculty or may face other disciplinary action when, at any time, the Professional Unsuitability Committee has determined that the student is unsuited, on consideration of competence or professional fitness, for the practice of teaching.

Copies of this by-law may be obtained from the Faculty of Education website.

5.1.15 Repeating a Course

Required courses which receive a grade of "F" or "D" must be repeated. Education elective courses which receive a grade of "F" or "D" must be repeated or replaced with other Education elective courses. Courses which receive a "C" grade or higher may be repeated; but only with the consent of the Associate Dean, Undergraduate Program.

Education courses may only be repeated once. When a course is repeated, the last grade achieved will be used in calculating the DGPA.

Effective September 2016, students admitted to the After-Degree B.Ed. program will be required to withdraw from the B.Ed. program on academic grounds upon failure (receipt of a grade of "F") of any 3 (of the 4) required practicum courses.

Applicable to After-Degree B.Ed. students admitted prior to September 2015 and Integrated B.Mus./B.Ed. students only:

Senior Years and Integrated B.Mus./B.Ed. students who fail a school experience practicum will normally be required to repeat the Curriculum and Instruction courses associated with that practicum. Students who fail a Curriculum and Instruction course will normally be required to repeat the practicum course associated with that curriculum area.

Early and Middle Years B.Ed. students who fail a school practicum course will normally be required to repeat all of the Curriculum and Instruction courses related to that year's practicum.

5.1.16 Statute of Limitation

The normal maximum time allowed for the completion of the B.Ed. program is six years from the date of admission.

5.1.17 Supplemental Examinations

Supplemental examinations are not permitted in Education courses.

5.1.18 Voluntary Withdrawals

See the Academic Calendar chapter, General Academic Regulations.

5.1.19 Voluntary Withdrawal from Practicum Limit

All students admitted are permitted one voluntary withdrawal from each of the practicum courses.

5.1.20 5000-Level Courses

Students enrolled in the After-Degree B.Ed. program and the Integrated B.Mus./B.Ed. programs are not permitted to take 5000-level courses.

5.2 Academic Regulations for the After-Degree Bachelor of Education

In addition to 5.1 the following regulations apply to the After-Degree B.Ed. program.

5.2.1 Maximum Course Load

The maximum credit hour load for After-Degree B.Ed. students is 30 credit hours in the regular session (September-April). The following requests for exception will apply:

- Requests to register for 33 credit hours, from students who are in good standing, do not need approval but the student must contact an Academic Advisor for assistance.
- Requests to register for 36 credit hours are approved by an Academic Advisor provided the student's minimum DGPA is 3.50.
- Requests to register for 3 credit hours above the maximum load but where the student's DGPA is below 2.50 are not permitted.
- Requests to register for more than 36 credit hours must be submitted, in writing, to the Associate Dean, Undergraduate Programs.

5.2.2 Transfer of Credit

Students may transfer a maximum of five full courses (30 credit hours) from another recognized university or college Professional Education program toward the After-Degree B.Ed. provided the courses are comparable and acceptable to the program, and they have not been applied to another degree program.

Students will not receive advance standing for any Education course which is more than six years old at the point of their admission to the Faculty of Education.

Courses taken as part of the Certificate in Teaching English as a Second Language (CTESL) (completed by end of Winter 2017) or Certificate in Adult and Continuing Education (CACE) through Extended Education, U of M, may receive credit for some coursework. See PBDE 6.5 Transfer of Credit section for a listing of equivalents.

Those students who are currently in the program and wish to register for a course at another university or college must complete an application for "Letter of Permission" prior to registering. Further information can be found at <http://umanitoba.ca/student/records/forms.html>

Courses at the 5000-level cannot be transferred to the B.Ed. After-Degree program (see 5.1.21).

5.3 Academic Regulations for the Integrated Bachelor of Music/Bachelor of Education

In addition to 5.1 the following regulations apply to the Integrated B.Mus./B.Ed. program.

5.3.1 Major/Minor Academic Requirements

In addition to Education courses, students must achieve a grade of C or greater in courses which apply to the major and minor.

5.3.2 Maximum Course Load

The maximum credit hour load for Integrated B.Mus./B.Ed. students in the regular session (September-April) are:

34 credit hours (Year 3)

37 credit hours (Year 4)

30 credit hours (Year 5)

The following requests for exception will apply:

- Requests to register for an additional 3 credit hours above the maximum load for students who are in good standing do not need approval but the student must contact an Academic Advisor for assistance.
- Requests to register for 6 credit hours above the maximum load are approved by an Academic Advisor provided the student's minimum DGPA is 3.50.
- Requests to register for 3 credit hours above the maximum load where the student's DGPA is below 2.50 are not permitted.
- Requests to register for more than 6 credit hours above the maximum load must be submitted, in writing, to the Associate Dean, Undergraduate Programs (Education).

5.3.3 Part-Time

Integrated B.Mus./B.Ed. students must complete Years 1 to 4 inclusive before proceeding to Year 5. When exceptions are permitted, they would normally only be allowed as a result of scheduling conflicts, unavailability of courses scheduled on a rotating basis, compassionate grounds or other exceptional circumstances.

5.3.4 Transfer of Credit

Students may transfer a maximum of ten full courses (60 credit hours) from another recognized university or college toward the Integrated B.Mus./B.Ed. degree provided the courses are comparable and acceptable to the program. Those students who are currently in the B.Ed. program and wish to register for a course at another university or college must complete an "Application for Letter of Permission" prior to registering.

5.3.5 University Written English and Mathematics

All Integrated B.Mus./B.Ed. students are required to complete the university written English and Mathematics requirement. This requirement is described in the Academic Calendar chapter, General Academic Regulations.

SECTION 5a: Education Elective Courses

Education Electives

Not all courses are offered every year.

All students admitted to the Bachelor of Education degree programs for September 2015 or later are required to complete education elective courses as part of their program (see 3.2, 3.3, or 3.4)

Students can choose from the lists of electives below. Students may seek permission to have other B.Ed. courses considered as an elective in their program by first consulting the Student Services Office (203 Education) and then obtaining approval from the instructor, the department head and an Academic Advisor. Forms are available from the Student Services Office or from the Faculty of Education website. (Note: If permission is being sought to take courses with a prerequisite and/or those intended for Senior Years teachable major or minor subjects, evidence of having appropriate background in the area as acquired through coursework or related experiences should be provided on the "Registration Permission" form).

PBDE students can request permission to enrol in B.Ed. courses by following the procedure outlined above.

Education Electives (restricted to B.Ed. students):

EDUA 3400 Aboriginal Education

EDUA 3420 Cross-Cultural Education

EDUA 3500 Recent Developments in Educational Administration & Foundations

EDUA 3502 Recent Developments in Educational Psychology

EDUA 3506 Foundations of Moral & Religious Education

EDUA 3508 Measurement and Evaluation

EDUA 3510 Communication & Interpersonal Relationships in Education

EDUB 1610 CyberPedagogy: Technology Production in Education

EDUB 1614 K-8 Curriculum Studies

EDUB 2160 Teaching Music in Early/Middle Years

EDUB 3402 Aboriginal Perspectives and the Curriculum

EDUB 3426 La pédagogie du français de base aux niveaux intermédiaire et de la jeune Enfance

EDUB 3502 Recent Developments in Curriculum, Teaching & Learning 1

EDUB 3504 Academic & Professional English for Multilingual Teachers

EDUB 3506 Principles and procedures of Second Language Teaching

EDUB 3508 Language and Content Instruction of ESL/Bilingual Students

EDUB 3510 Language Awareness for Teachers

EDUB 3512 Literature for Adolescents

EDUB 3514 Literature for Children

EDUB 3516 Art Across the Curriculum

EDUB 3518 Drama Across the Curriculum

EDUB 3520 Historical Development of Physical Science up to the 20th Century

EDUB 3522 Recent Developments in Learning and Teaching Senior Years Mathematics

EDUB 3524 Practical Work in School Science

EDUB 3526 Integration of Technological Literacy Across the K-12 Curriculum

EDUB 3528 Media Literacy

EDUB 3530 Beyond Schools: Experiencing Teaching & Learning in Community Settings

EDUB 3532 Basic Experiences in Movement & Dance Education

EDUB 4100 Teacher and Technology

EDUB 4502 Recent Developments in Curriculum, Teaching & Learning 2

Education Electives (open to non-Education students during Open Access period):

EDUA 1560 Adult Learning and Development

EDUA 1570 Foundations of Adult Education

EDUA 1580 Program Planning in Adult Education

EDUA 1590 Facilitating Adult Education

EDUB 1600 Teaching General Music

SECTION 6: Post Baccalaureate Diploma in Education

The Faculty of Education offers a Post Baccalaureate Diploma in Education (PBDE) designed for teachers and other professionals.

The unique features of the PBDE program are that students can: design their own program of study and tailor it to their own areas of interest; take courses at the Faculty of Education as well as at other faculties and schools at the U of M or other approved institutions. A wide selection of courses are available through Summer Session, distance education, and summer institutes.

This program is also used for Internationally Educated Teachers who require additional coursework to meet Manitoba Teacher Certification requirements.

The PBDE is recognized by Manitoba Education and Training for salary classification purposes. Further, the PBDE program provides the opportunity for teachers to follow courses of study leading to the school counsellor, special education and special education coordinator certificates, certificate in school leadership, and to partial fulfilment of the requirements of the school administrators' (Level 1) and principals' (Level 2) certificates, all of which are issued by Manitoba Education and Training. For information regarding specialist certificates, contact: Professional Certification Unit, Manitoba Education and Training, Box 700, Russell, Manitoba, R0J 1W0; telephone toll free at: 1-800-667-2378, or 1-204-773-2998, or e-mail certification@gov.mb.ca, or web: www.edu.gov.mb.ca/k12/profcert/.

6.1 Admission Requirements

Applicants for Admission must possess:

- A bachelor's degree and one of the following types of certificates granted by Manitoba Education and Training: Permanent Professional Certificate, Provisional Professional Certificate, or Clinicians' Certificate; or equivalent from other provinces [See note 1 on teacher certification] or a bachelor's degree and two years of appropriate teaching/work experience (see note 2);
- A Grade Point Average of 2.00 in the bachelor's degree (including any after degree certification program).

Note 1:

Teacher Certification

The majority of applicants will possess a valid teaching certificate before being admitted to the Post Baccalaureate Diploma in Education Program.

The granting of a certificate to teach in the public schools of Manitoba is the prerogative of Manitoba Education and Training and is based on a recognized program of teacher education. Individuals wishing to apply for such certification should contact the Professional Certification Unit, Manitoba Education and Training.

Note 2:

Individuals must also complete a Supplementary Application and include a brief statement as to educational plans and a resume showing evidence of two years of appropriate full-time teaching or work experience. Applications are reviewed by the Office of the Associate Dean (Undergraduate) for suitability for PBDE study.

6.2 Admission Procedure

Applications may only be completed online and the form is available at <http://umanitoba.ca/faculties/education/future/index.html>. The deadlines are:

Application Deadlines*

April 1/June 1 for classes beginning Summer (May-July)**

August 1 for classes beginning Fall (September)

December 1 for classes beginning Winter (January)

*International Applicants should apply at least five (5) months in advance of the above deadlines.

**Students who wish to enrol in courses that start in May should apply by April 1.

6.3 Readmission, Continuing, and Returning Students

All students who were admitted and who did not follow through with course registration or who voluntarily withdrew from their first year of studies must reapply for admission (www.umanitoba.ca/applynow).

All students who were admitted to the PBDE and who have not been in attendance for three consecutive terms, must request permission to re-register in the program and pay the re-admission fee. The 'Request for Permission to Re-Register in the Post Baccalaureate Diploma in Education' is available at <http://umanitoba.ca/education/>.

6.4 Program Requirements

REMINDER: While Education academic advisors are available to clarify faculty and university regulations and degree requirements, it is the student's responsibility to ensure that diploma and program requirements are met.

The Post Baccalaureate Diploma in Education consists of 30 credit hours of coursework, subject to the following regulations:

- a) A minimum of 12 credit hours must be taken in the Faculty of Education at the 5000-level;
- b) A maximum of 18 credit hours may be taken in the Faculty of Education below the 5000-level;
- c) A maximum of 18 credit hours may be taken outside the Faculty of Education at the introductory or higher level of which six credit hours may be taken at the 1000-level. In the case of language study other than English or French, a maximum of 12 credit hours may be taken at the 1000-level provided both are in the same language.
- d) A maximum of six credit hours may be earned through approved external field-led courses. These courses are Faculty-approved courses offered by approved partner organizations. Prior approval through the 'Application for Letter of Permission' will be required before taking courses and only students enrolled in the PBDE may take these courses.
- e) PBDE students are not permitted to take graduate courses.

6.5 Academic Regulations

Appeal Procedures

The general university policy for appeal of assigned grades applies to the Faculty of Education. See the chapter, General Academic Regulations and

Policy, of this Calendar, Appeals of Grades. Information about admission decision appeals may be found in the chapter, Admissions.

Assessment of Student Academic Performance

Academic performance is normally assessed at the completion of nine credit hours of course work and at the end of every session thereafter. A minimum grade of "C" is required for each course that is to be included in the student's diploma program. Effective September 2011, a student must maintain a minimum Degree Grade Point Average (DGPA) of 2.50 to continue in the program. A student whose DGPA falls below 2.50 will be placed on academic suspension for two years. Reapplication is required for readmission to the program.

Attendance at Class and Debarment

Regular attendance is expected of all students in all courses. An instructor can initiate procedures to debar a student from attending classes and from final examinations where unexcused absences exceed three hours of scheduled classes in any one term. See the chapter, General Academic Regulations and Requirements, Attendance at Class and Withdrawal. In addition, see Post-Baccalaureate Diploma in Education Attendance Procedures for full details.

Continuing Students

See the chapter, [University of Manitoba Admissions](#).

Grading Scale

| Letter Grade | Grade Point | Level of Achievement | Percentage Range |
|--------------|-------------|----------------------|------------------|
| A+ | 4.50 | Exceptional | 95 and above |
| A | 4.00 | Excellent | 90-94 |
| B+ | 3.50 | Very Good | 85-89 |
| B | 3.00 | Good | 80-84 |
| C+ | 2.50 | Satisfactory | 75-79 |
| C | 2.00 | Adequate | 70-74 |
| D | 1.00 | Marginal | 60-69 |
| F | 0.00 | Failure | Below 60 |

Incompletes

See the chapter, General Academic Regulations and Requirements, Academic Evaluation. Students who are unable to complete the term work prescribed in a course may apply to the instructor prior to the end of term for consideration of a grade classification of 'incomplete.' It is understood that the student is to write the final examination if one is scheduled for the course.

Taking into account the results of the final examination, the value of the term work completed, and the extent of the incomplete term work, the instructor shall calculate the temporary grade using a zero value for incomplete work.

Normally, the following maximum extensions are allowed:

August 1 for courses terminated in April

December 1 for courses terminated in August

April 1 for courses terminated in December

If a final grade is not reported within one month of the extension deadline, the Incomplete (I) classification will be dropped and the grade will remain

as awarded. The student will no longer have an opportunity to improve the grade. In no case will the satisfaction of the incomplete requirements result in a lower grade being awarded.

Maximum Time Limits

The maximum time allowed for completing the PBDE is six* years from the time of admission. In addition, a student will not be permitted to count toward the diploma any course completed more than six* years prior to the time of admission. Students will be permitted to retake and use as PBDE credit Education courses beyond the six* years provided they have not been previously used elsewhere for credit toward a degree or diploma program. Courses from other faculties will need to be dealt with on an individual basis.

* For students admitted prior to September 2015, the maximum time allowed to complete the PBDE is nine years and courses cannot be older than nine years at the completion of the PBDE.

Repeating a Course

Courses for which a grade of "F" or "D" is obtained, must be repeated or replaced; however, courses may only be repeated once. Courses in which a grade of "C" or higher is obtained may not be repeated. Courses may be repeated once. When a course is repeated, the last grade achieved will be used in calculating the Degree Grade Point Average.

Supplemental Examinations

Supplemental examinations are not permitted in education courses.

Voluntary Withdrawals

See the chapter, General Academic Regulations and Requirements.

Authorized Withdrawals (AWs) may be permitted on medical or compassionate grounds, subject to satisfactory documentation. Students must contact an Education Student Advisor to initiate an authorized withdrawal.

6.6 Transfer of Credit

Subject to approval by the Faculty, transfer of credit may be granted on the basis of:

- completed university level courses that have not been previously used towards a degree,
- completed M.Ed. courses not used to satisfy requirements for the M.Ed. degree, and
- the following courses completed through the Certificate in Adult and Continuing Education (CACE), University of Manitoba:

ADED 0170 Foundations of Adult Education transferred as EDUA 1570 Foundations of Adult Education (3); ADED 0180 Program Planning in Adult Education transferred as EDUA 1580 Program Planning in Adult Education (3); ADED 0160 Adult Learning and Development transferred as EDUA 1560 Adult Learning and Development (3); ADED 0190 Facilitating Adult Education transferred as EDUA 1590 Facilitating Adult Education (3).

Completion of the CACE certificate is not required to receive individual credit.

Courses taken as part of the Certificate in Teaching English as a Second Language (CTESL), University of Manitoba (completed by end of Winter 2017) may receive a maximum of 15 credit hours. Transfer will be awarded as follows:

CTSL 0100 Principles and Procedures of Second Language transferred as EDUB 1620 Principles and Procedures of Second Language Teaching (3); CTSL 0102 Teaching ESL Vocabulary and Pronunciation as EDUB 1640

Teaching ESL Vocabulary and Pronunciation (3); CTSL 0104 Teaching ESL Grammar as EDUB 1650 Teaching ESL Grammar (3); CTSL 0120 Practicum in Teaching English as a Second Language (TESL) as EDUB 1860 Practicum in Teaching English as a Second Language (TESL) (3); CTSL 0108 Content-based Second Language Instruction as EDUB 1820 Language and Content Instruction of ESL/Bilingual Students (3); 39306 Computers in Second Language Teaching as EDUB 1660 Computers in Second Language Teaching (3); CTSL 0106 Teaching ESL Literacy as EDUB 1606 Teaching ESL Foundational Literacy, Academics & Language (3); CTSL 0110 Adult ESL & the Canadian Language Benchmarks as EDUB 1612 Adult ESL and the Canadian Language Benchmarks (3); CTSL 0114 Assessment and Teaching of ESL Learners as EDUB 1608 Assessment and Testing of EAL/ESL Learners.

Completion of the CTESL certificate is not required to receive individual credit.

A maximum of 12 credit hours may be transferred from an institution other than the University of Manitoba. There is no maximum credit limit for courses completed at the University of Manitoba. Transferred courses must have a grade of C or better. Students will not be permitted to count toward the diploma any course completed more than six years* prior to the time of admission.

*For students admitted prior to September 2015, courses transferred to the PBDE must fall within the nine year statute of limitation at the completion date, must be within the program requirements, and must have a grade of C or better.

6.7 Extension of Time to Complete Program of Study

All requests for extensions must be made to the Associate Dean (Undergraduate), and must be made within the final term prior to the expiration. The student must complete the "Request for Extension" form available at <http://umanitoba.ca/education/> and submit it to the Office of the Associate Dean (Undergraduate), Faculty of Education at least three, but no more than four, months prior to expiration of the respective maximum time limit. Requests for an extension are reviewed by Associate Dean (Undergraduate) on a case by case basis.

Requests for extension must be accompanied by a realistic timeline for completion.

The normal time requested for extensions is one term. More than one extension period may be considered; however, the total approved for all extensions will not normally exceed one year. Students requesting extensions should consult with an Academic Advisor.

6.8 Leave of Absence

6.8.1 Regular Leave

A request for a leave of absence must be made to the Associate Dean (Undergraduate) who may grant a leave for a maximum of one year. While on leave of absence, a student would not be expected to maintain study. Students on a Regular Leave of Absence will be required to register for courses at the end of the leave period. A Regular Leave of Absence status does not extend the time limits as outlined in the Faculty regulations.

Fees: No Re-Admission fee will be levied upon return to study at the end of a 12 month leave.

6.8.2 Exceptional Leave

In exceptional circumstances, at the request of the PBDE student, the Associate Dean (Undergraduate) may grant an exceptional leave of absence for a period of time not to exceed one year. While on leave of absence for exceptional reasons, a student would not be expected to maintain study

nor pay the Re-Admission fee. In addition, the leave period would not be included in the time period allowed for the completion of the diploma.

Fees: No Re-Admission fee will be levied upon return to study at the end of a 12 month leave.

6.8.3 Parental Leave

A PBDE student who is bearing a child or who has primary responsibility of the care of an infant or young child immediately following a birth or adoption of a child is eligible for parental leave. The request should be made to the Associate Dean (Undergraduate) and may be granted for up to one year. While on leave of absence for parental reasons, a student would not be expected to maintain study. The leave period is not included in the time period allowed for completion of the diploma.

Fees: No Re-Admission fee will be levied upon return to study at the end of a 12 month leave.

Note: At the time of approval of an application for leave, the procedures for the return of the student to the Faculty at the completion of the leave must be stipulated.

The **Leave of Absence Application Form** is available at <http://umanitoba.ca/education/>.

6.8.4 Awards & Leave of Absence

Students granted exceptional or parental leave will retain the full value of an award whose terms and conditions are established by the Faculty of Education. Such an award will be suspended at the onset of the leave and reinstated at the termination of the leave period (4 to 12 months) provided that the student returns to full time study at that time. Other awards will be paid according to the conditions established by the donor or granting agency.

6.9 Courses Grouped by Subject

Ungrouped courses

EDUA 5012 Legal and Administrative Aspects of Schools for Clinicians Cr.Hrs.3
EDUB 5870 Mentoring for Teachers Cr.Hrs.3
EDUB 5940 Instructional Product Development Cr.Hrs.3

Counselling Psychology

EDUA 5480 Counselling Skills Cr.Hrs.3
EDUA 5490 Field Placement in Counselling Cr.Hrs.3
EDUA 5500 Theories and Issues in School Counselling Cr.Hrs.3
EDUA 5510 Elementary School Counselling Cr.Hrs.3
EDUA 5520 Ethics in Counselling Cr.Hrs.3
EDUA 5530 Secondary School Counselling Cr.Hrs.3
EDUA 5540 Groups in Guidance Cr.Hrs.3
EDUA 5550 Psychology of Human Relationships Cr.Hrs.3
EDUA 5570 Family Life Education Cr.Hrs.3
EDUA 5580 Career Development Cr.Hrs.3
EDUA 5590 Career Information Cr.Hrs.3

Cross-cultural, Sociological, and Philosophical Foundations in Education

EDUA 5200 Readings in Educational Foundations Cr.Hrs.3
EDUA 5210 Recent Developments in Educational Foundations 1 Cr.Hrs.3
EDUA 5230 Studies in International Education Cr.Hrs.3

Early Years Education

EDUA 5930 Observing Child Behaviour Cr.Hrs.3
EDUA 5940 Language and Symbolic Process Cr.Hrs.3

Educational Administration

EDUA 5010 Introduction to Educational Administration Cr.Hrs.3
EDUA 5020 Principles of Curriculum Development Cr.Hrs.3
EDUA 5030 Management of Educational Institutions Cr.Hrs.3
EDUA 5040 Personnel Administration in Education Cr.Hrs.3
EDUA 5060 Principles of Instructional Supervision Cr.Hrs.3
EDUA 5070 Organizational Behaviour in Educational Institutions Cr.Hrs.3
EDUA 5080 Recent Developments in Educational Administration 1 Cr.Hrs.3
EDUA 5090 Recent Developments in Educational Administration 2 Cr.Hrs.3
EDUA 5100 Issues in the Administration of Education Cr.Hrs.3

Educational Psychology

EDUA 5710 Readings in Educational Psychology 1 Cr.Hrs.3
EDUA 5730 Recent Developments in Educational Psychology 1 Cr.Hrs.3
EDUA 5740 Recent Developments in Educational Psychology 2 Cr.Hrs.3
EDUA 5760 Psychology of Instruction in Educational Contexts Cr.Hrs.3

Educational Technology

EDUB 5840 Internet Pedagogy Cr.Hrs.3
EDUB 5850 Theory and Practice of Designing and Developing Web-based Courses Cr.Hrs.3
EDUB 5860 Project Management in Education and Training Cr.Hrs.3

Expressive Arts

EDUB 5012 Video Art, Culture and Education Cr.Hrs.3
EDUB 5040 Theory and Practice of Teaching Art (Elementary) Cr.Hrs.6
EDUB 5060 Theory and Practice of Teaching Art in the Senior Years 1 Cr.Hrs.3
EDUB 5120 Music in the Early Years/Middle Years School 1 Cr.Hrs.3
EDUB 5130 Music in the Early Years/Middle Years School 2 Cr.Hrs.3
EDUB 5140 Special Methods in Music 1 Cr.Hrs.3
EDUB 5150 Special Methods in Music 2 Cr.Hrs.3
EDUB 5160 School Band Cr.Hrs.3
EDUB 5190 School Music Productions Cr.Hrs.3
EDUB 5250 Music: Advanced Choral Methods Cr.Hrs.3

Inclusive Education

EDUA 5600 Introduction to Inclusive Special Education Cr.Hrs.6
EDUA 5610 Field Experience in Inclusive Special Education Cr.Hrs.6
EDUA 5620 Teaching Children Through Alternative and Augmented Communication Cr.Hrs.3
EDUA 5630 Assessment and Instruction in Inclusive Special Education Cr.Hrs.6
EDUA 5640 Inclusive Special Education: Early and Middle Years Cr.Hrs.3
EDUA 5650 Inclusive Special Education: High School and Transition to Adult Life Cr.Hrs.3
EDUA 5660 Organization and Delivery of Resource Program and Support Services Cr.Hrs.3
EDUA 5670 Strategies for Organizing Inclusive Classrooms and Schools Cr.Hrs.3
EDUA 5680 Promoting Responsible Behaviour in Educational Settings Cr.Hrs.3
EDUA 5690 Focus on Exceptionality: Gifted and Talented Cr.Hrs.3
EDUA 5770 Focus on Exceptionality: An Ecological Approach to FAS/E Cr.Hrs.3

Instructional Design and Evaluation

EDUA 5800 Introduction to Educational Research Cr.Hrs.3

EDUA 5810 Theory of Test Construction Cr.Hrs.3

Language Arts

EDUB 5330 Teaching Language and Literacy in the Content Areas Cr.Hrs.3
EDUB 5350 Current Issues in Language and Literacy Cr.Hrs.3
EDUB 5360 Children's Literature Cr.Hrs.3
EDUB 5370 Adolescent Literature Cr.Hrs.3
EDUB 5380 Theory and Practice in Written Composition Cr.Hrs.3
EDUB 5390 The Teaching of Written Composition Cr.Hrs.3
EDUB 5400 Diagnostic and Remedial Techniques in Language Arts Cr.Hrs.6.

Library Science

EDUB 5550 Library Reference and Informational Materials Cr.Hrs.6.

Mathematics

EDUB 5760 Recent Developments in Mathematics Education Cr.Hrs.3
EDUB 5770 Diagnosis and Remediation in Elementary School Mathematics Cr.Hrs.3

Readings in Curriculum

EDUB 5200 Readings in Curriculum, Teaching and Learning 1 Cr.Hrs.3
EDUB 5210 Readings in Curriculum, Teaching and Learning 2 Cr.Hrs.3
EDUB 5220 Recent Developments in Curriculum, Teaching and Learning 1 Cr.Hrs.3
EDUB 5230 Recent Developments in Curriculum, Teaching and Learning 2 Cr.Hrs.3
EDUB 5470 Recent Developments in Curriculum: Mathematics and Natural Sciences 1 Cr.Hrs.3
EDUB 5480 Recent Developments in Curriculum: Mathematics and Natural Sciences 2 Cr.Hrs.3

Second Language Education

EDUB 5510 ESL Materials Development and Practicum Cr.Hrs.3
EDUB 5512 Teacher Development and Leadership in Second Language Education Cr.Hrs.3
EDUB 5514 Assessment and Testing of ESL/EAL Learners Cr.Hrs.3
EDUB 5516 Teaching Literacy, Academics and Language (LAL) Learners Cr.Hrs.3
EDUB 5518 Intercultural Communication in Transnational Contexts Cr.Hrs.3
EDUB 5520 Grammar in ESL Learning and Instruction Cr.Hrs.3
EDUB 5530 ESL and Content Instruction Cr.Hrs.3
EDUB 5540 Vocabulary and Pronunciation Instruction Cr.Hrs.3
EDUB 5580 Fundamentals of ESL (English Second Language) Instruction Cr.Hrs.3

Social Studies

EDUB 5600 The Teaching of Social Studies in the Early and Middle Years Cr.Hrs.3
EDUB 5660 Theoretical Foundations of Social Studies Cr.Hrs.3

Technical/Vocational

EDUB 5100 Developing Competency Skills in Enterprise Education 1 Cr.Hrs.3
EDUB 5110 Developing Competency Skills in Enterprise Education 2 Cr.Hrs.3
EDUB 5690 Seminar in Business Education Cr.Hrs.6

SECTION 7: Additional Information

Scheduling changes to courses and practicum will be updated to *Aurora Student*. Students are expected to check their Week-At-A-Glance on *Aurora*

Student to confirm location, time, and instructor changes. Cohort meetings and faculty events will be posted on the faculty website. Students are encouraged to regularly refer to the website.

7.2.1 Continuing Students

See the Academic Calendar chapter, Admissions, Section 5: Other Admission Categories

7.2.2 Part-Time Students

Opportunities for part-time study are available in all B.Ed. After-Degree streams as well as the Integrated B.Mus./B.Ed. program. In addition to 5.1.16 and 5.3.3, the following should be noted:

- Students can begin part-time studies in the first year provided they successfully complete 3 credit hours of Education coursework from the Year 1 program requirements. Failure to do so will result in ineligibility to continue in program and require re-application and re-admission.
- Part-time students should note that not all Curriculum and Instruction courses are offered every year.
- Part-time students should work with an Academic Advisor for program planning.

7.2.3 Special Students

The Faculty of Education does not admit students to this category.

7.2.4 Students enrolled in Other Faculties/Schools

Students currently enrolled in other faculties/schools at the University of Manitoba may take some 1000-level Education courses. Students who hold a recognized degree from an accredited institution may also take 5000-level courses, however, students must obtain permission by completing the Registration Permission form available @ <http://umanitoba.ca/education/current/> or from the B.Ed. Student Services office, Education Building. 5000-level courses cannot be applied towards a B.Ed. degree or Integrated B.Mus./B.Ed. degrees.

7.2.5 Visiting Students

For admissions procedure, refer to [Registration and Fees](#) chapter of the Academic Calendar and contact the B.Ed. Student Services office, Faculty of Education at (204) 474-9004.

The Faculty sponsors a number of lectures, workshops and forums. Attendance for B.Ed. students at program days is expected. Details will be posted on the "News and Events" of the faculty's website: <http://umanitoba.ca/education>.

Education courses may have unique start and end dates. Students are referred to *Aurora Class Schedule* to view voluntary withdrawal and fee refund dates.

SECTION 8: Department of Curriculum, Teaching and Learning Course Descriptions-1000 Level

EDUB 1520 Education in the Senior Years Integrated Programs 1 Cr. Hrs. 2

An examination of the assumptions about and goals of Senior Years education, the role of the Senior Years teacher, and the Senior Years curriculum in the schools. For students in the integrated B.Ed. programs. Not to be held with EDUB 1500. Corequisite: EDUB 1940.

EDUB 1530 Education in the Senior Years Integrated Programs 2 Cr. Hrs. 1

An examination of the assumptions about and goals of Senior Years education, the role of the Senior Years teacher, and the Senior Years curriculum in the schools. For students in the integrated B.Ed. programs. Not to be held with EDUB 1500. Prerequisite: EDUB 1520. Corequisite: EDUB 1950.

EDUB 1600 Teaching General Music Cr. Hs. 3

A study of teaching music in Early and Middle Years schools. For both classroom teachers and Music specialists, the course covers all traditional areas of music instruction as well as music's role across the curriculum.

EDUB 1610 CyberPedagogy: Technology Production in Education Cr. Hrs. 3

An examination of technologies in education focusing on the production, and creation of educational computer-based new media.

EDUB 1614 K-8 Curriculum Studies Cr. Hrs. 3

A focused study of the philosophy, purposes and content of K-8 provincial curriculum documents; current learning theories, teaching approaches and instructional planning in both discipline-based and interdisciplinary contexts; and assessment and evaluation of student learning. Not to be held with EDUB 1840 where the course section taken was "General Curriculum."

EDUB 1940 Integrated Programs School Experience 1 Cr. Hrs. 3

For students in the Integrated Bachelor of Human Ecology/Bachelor of Education and Bachelor of Music/Bachelor of Education programs. Practical teaching experience in schools under the guidance and supervision of faculty members and collaborating teachers. This course is graded pass/fail. Prerequisite: EDUB 1200 for Integrated B.Mus./B.Ed. and EDUB 1240 for Integrated B.H.Ecol./B.Ed. Corequisite: EDUB 1520.

EDUB 1950 Integrated Programs School Experience 2 Cr. Hrs. 3

For students in the Integrated Bachelor of Human Ecology/Bachelor of Education and Bachelor of Music/Bachelor of Education programs. A continuation of practical teaching experience in schools under the guidance and supervision of faculty members and collaborating teachers. This course is graded pass/fail. Prerequisite: EDUB 1940; EDUB 2240 for Integrated B.Mus./B.Ed. and EDUB 2290 for Integrated B.H.Ecol./B.Ed. corequisite: EDUB 1530.

SECTION 8: Department of Curriculum, Teaching and Learning Course Descriptions-2000 Level

EDUB 2160 Teaching Music in Early/Middle Years Cr. Hrs. 3

The specialized study and application of curriculum, instructional approaches and techniques relevant to music education at the early and middle years levels (K-8). This course is intended for music specialists (music majors/minors, or with permission or instructor). Prerequisite: EDUB 1200 and EDUB 1940 or permission of instructor.

EDUB 2970 Middle Years School Experience 2 Cr. Hrs. 9

A continuation of practical teaching experience in Middle Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Middle Years level. This course is graded pass/fail. Prerequisite: successful completion of year one; Co-requisite:

EDUB 2100, EDUB 2110, EDUB 2120, EDUB 2130, EDUB 2140, EDUB 2150, and EDUB 2400.

SECTION 8: Department of Curriculum, Teaching and Learning Course Descriptions-3000 Level

EDUB 3010 Classroom Community and Early Years Literacy Cr. Hrs. 3

This course is designed to provide an introductory study of English language and literacy in Early Years education and how it relates to development of classroom communities. May not be held with EDUB 1010.

EDUB 3012 Early Years Mathematics and Quantitative Reasoning for All Learners Cr. Hrs. 3

This course addresses mathematical sense making, quantitative reasoning, and practical instructional approaches in the context of the Manitoba Early Years mathematics curriculum towards a developing mathematics teacher identity. May not be held with EDUB 1000 or EDUB 1050.

EDUB 3014 Early Years Science and Social Studies: Pedagogy and Curriculum Cr. Hrs. 3

Instructional approaches to helping young children construct knowledge about the natural world and the human society they inhabit. Attention is given to planning for learning in science and in social studies represented by current research, and provincial outcomes documents. May not be held with EDUB 1040 or EDUB 1060.

EDUB 3016 Creative Collaboration in the Arts Cr. Hrs. 3

An exploration of art, drama, and music. An emphasis will be placed on the value of play in early childhood development, the creative process, aesthetics, constructivism and the emergent curriculum. May not be held with EDUB 1030 or EDUB 2030.

EDUB 3018 Multi-Language Development in Early Years Cr. Hrs. 3

This course examines English as an Additional Language (EAL) development related to early years education. Issues to be addressed include: trends in EAL education, orienting newcomer students and parents to the school context, EAL-inclusive lesson/ unit planning, the new EAL curriculum, cooperative learning, and other related issues.

EDUB 3050 Middle Years Learners & Learning Cr. Hrs. 3

This course will explore the theoretical concepts of learning and development, both for Middle Years students and teachers as adult professional learners. This is a professional inquiry into practice and learning to observe students to assess their social and emotional, cognitive, and physical development, and how this information impacts learning and classroom dynamics. May not be held with EDUA 1800.

EDUB 3052 Middle Years: Teaching for Learning Developing a Responsive Pedagogy Cr. Hrs. 3

This course focuses on effective teaching across curriculum areas with emphasis on classroom based assessment to develop a learner-responsive pedagogy. Strategies for integrating educational technologies into teaching and assessing for learning will be addressed. May not be held with EDUB 2100. Prerequisite EDUB 3050.

EDUB 3054 Introduction to Teaching Mathematics in Middle Years 1 Cr. Hrs. 3

This course introduces Middle Years teacher candidates to pedagogically appropriate teaching in Mathematics. May not be held with EDUB 1140.

EDUB 3056 Teaching English Language Arts in Middle Years Cr. Hrs. 3

A study of curriculum, theories, and instructional approaches and techniques relevant to teaching English Language Arts in the Middle Years. This course will include a focus on teacher candidates' literacy practices and the processes of Middle Year students' literacy learning. May not be held with EDUB 1100.

EDUB 3058 Teaching Science in Middle Years Cr. Hrs. 3

This course facilitates the development of teacher candidates' view of (1) themselves as educators of science and (2) science as a learning area. The course focus is on the learning and teaching practices that contribute to engagement and learning for diverse student populations in Middle Years science. May not be held with EDUB 2130.

EDUB 3060 Teaching Social Studies in Middle Years Cr. Hrs. 3

The course focus is on the learning and teaching practices that contribute to engagement and learning for diverse student populations in Middle Years social studies. Contemporary learning, teaching and assessment models and practices are investigated with integrated inquiry unit planning as the central activity. May not be held with EDUB 2110.

EDUB 3062 Teaching the Arts in Middle Years Cr. Hrs. 3

A study of current arts curricula (dance, drama, music, visual arts) and pedagogical practices. Emphasis will be placed on the critical role that the arts play in creating rich classroom learning communities, as well as the role of technology in arts teaching and learning. May not be held with EDUB 1120 or EDUB 2120.

EDUB 3064 Teaching Physical Education/Health Education in Middle Years Cr. Hrs. 3

Engagement in physical activities in the gymnasium/ classroom that highlight teaching learning strategies in PE/HE pedagogy. A central theme in this course is the promotion and understanding of physical and health literacies in our classes. May not be held with EDUB 1130 or EDUB 2150.

EDUB 3100 Senior Years: Principles and Processes for Teaching Cr. Hrs. 3

A general curriculum and instruction course designed to illuminate the connections between theory and practice and offers a practical approach to planning, teaching, and learning regardless of subject area specialty. Teacher candidates will critically consider the qualities of an effective Senior Years learning environment and recognize the elements at work. May not be held with EDUB 1510.

EDUB 3102 Senior Years: Language and Literacy Across the Curriculum Cr. Hrs. 3

A deeper examination of the relationship between language, literacy and learning through an interdisciplinary approach, including how to understand language and literacy as a part of multiple sociocultural practices that are interconnected within various identities and contexts. May not be held with EDUB 2510.

EDUB 3110 Senior Years Curriculum & Instruction: The Arts Cr. Hrs. 3

A curriculum and instruction course for the clustered subject areas of Arts: Visual Arts, Dance, Drama and Music with opportunities to examine the pedagogical possibilities of their particular art form. The course will explore foundational principles for the study of curriculum, instructional strategies, and assessment in the Arts. May not be held with EDUB 1200. Pre- or Corequisite: EDUB 3100.

EDUB 3120 Senior Years Curriculum & Instruction: Languages **Cr. Hrs. 3**

A curriculum and instruction course for the cluster subject areas for languages. This course provides an introduction to the study of curriculum, instructional strategies and assessment in teaching languages and how to make connections between research, theory, and practice in the teaching/learning of languages in the Manitoba context. May not be held with EDUB 1210, EDUB 1280, EDUB 1350. Pre- or Corequisite: EDUB 3100.

EDUB 3130 Senior Years Curriculum & Instruction: Social Sciences **Cr. Hrs. 3**

A curriculum and instruction course for the cluster of subject areas for the Social Sciences: History, Geography, Native Studies. This course provides the foundational principles for the study of curriculum, instructional strategies and assessment in the Social Sciences. May not be held with EDUB 1230. Pre- or Corequisite: EDUB 3100.

EDUB 3140 Senior Years Curriculum & Instruction: Sciences **Cr. Hrs. 3**

A curriculum and instruction course for the cluster of subject areas for the Natural Sciences includes: General Science, Biology, Chemistry, Physics, Mathematics, Human Ecology, Physical Education/Health Education, and Computer Science. This course provides teacher candidates with the foundational principles for the study of curriculum, instructional strategies and assessment in the Natural Sciences. May not be held with EDUB 1240, EDUB 1250, EDUB 1260, EDUB 1270. Pre- or Corequisite: EDUB 3100.

EDUB 3310 Early Years: Practicum 1 **Cr. Hrs. 3**

Practical teaching experience for Early Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). This is a pass/fail course. May not be held with EDUB 1960. Pre- or corequisites: [3 credit hours from EDUA 3400, EDUB 3402, EDUB 3018] and [3 credit hours from EDUB 3010, EDUB 3012].

EDUB 3312 Early Years: Practicum 2 **Cr. Hrs. 3**

Practical teaching experience for Early Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). This is a pass/fail course. May not be held with EDUB 1960. Prerequisite: EDUB 3310. Pre- or Corequisites: [EDUA 3400 or EDUB 3402] and EDUB 3010, EDUB 3012, EDUB 3018.

EDUB 3320 Middle Years: Practicum 1 **Cr. Hrs. 3**

Practical teaching experience for Middle Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). May not be held with EDUB 1970. Pre- or corequisites: EDUB 3050 and [3 credit hours from: EDUA 3400, EDUB 3402, EDUB 3506 (the former EDUB 1620), EDUB 3508 (the former EDUB 1820), EDUA 3420, EDUB 3426, EDUB 3510]. This is a pass/fail course.

EDUB 3322 Middle Years: Practicum 2 **Cr. Hrs. 3**

Practical teaching experience for Senior Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). May not be held with EDUB 1980. Pre- or corequisites: EDUB 3100 and [3 credit hours from EDUA 3400, EDUB 3402, EDUB 3506 (the former EDUB 1620), EDUB 3508 (the former EDUB 1820), EDUA 3420, EDUB 3426, EDUB 3510] and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140]. This is a pass/fail course

EDUB 3330 Senior Years: Practicum 1 **Cr. Hrs. 3**

Practical teaching experience for Senior Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). May not be held with EDUB 1980. Pre- or corequisites: EDUB

3100 and [3 credit hours from EDUA 3400, EDUB 3402, EDUB 3506 (the former EDUB 1620), EDUB 3508 (the former EDUB 1820), EDUA 3420, EDUB 3426, EDUB 3510] and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140]. This is a pass/fail course.

EDUB 3332 Senior Years: Practicum 2 **Cr. Hrs. 3**

Practical teaching experience for Senior Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). May not be held with EDUB 1980. Prerequisite: EDUB 3330. Pre- or corequisites: [3 credit hours from EDUA 3400, EDUB 3402] and [3 credit hours from: EDUB 3506 (or the former EDUB 1620), EDUB 3508 (or the former EDUB 1820), EDUA 3420, EDUB 3426, EDUB 3510]. This is a pass/fail course..

EDUB 3402 Aboriginal Perspectives and the Curriculum **Cr. Hrs. 3**

The course will focus on fostering teacher candidate pedagogical knowledge, orientations and capabilities for developing and implementing curricula for kindergarten through to Grade 12 that reflect Aboriginal perspectives. May not be held with EDUB 1602 or EDUB 1840 when titled "Integrating Aboriginal Perspectives into the Manitoba Curriculum."

EDUB 3426 La pédagogie du français de base aux niveaux intermédiaire et de la jeune enfance **Cr. Hrs. 3**

Ce cours ser d'introduction aux principes et aux pratiques de base dans le domaine de l'enseignement et de l'apprentissage du Français comme langue seconde (FL2) ou additionnelle. Les participants au cours examineront les principes fondamentaux et la mise en pratique de l'enseignement et de l'apprentissage du français en tant que langue seconde ou additionnelle. L'accent est mis sur les pratiques pédagogiques de l'approche communicative expérientielle, telle qu'approuvée par le Ministre d'éducation du Manitoba. Puisque ce cours forme partie de la liste de cours répondant au 'Diversity Requirement' de Ministère de l'éducation, une philosophie d'ouverture et d'inclusion de la diversité sous-tendent l'essentiel de ce cours. May not be held with EDUB 1830. Prerequisite: 18 credit hours of French or permission of instructor.

EDUB 3502 Recent Developments in Curriculum, Teaching and Learning 1 **Cr. Hrs. 3**

The study of emerging topics in curriculum, teaching, and learning not studied in regular program courses.

EDUB 3504 Academic and Professional English for Multilingual Teachers **Cr. Hrs. 3**

This course provides English language development for multilingual teachers of English as a second/additional language and other subject areas. The focus is on teacher, classroom, and professional English that can be applied in various contexts. May not be held with EDUB 1604.

EDUB 3506 Principles and Procedures of Second Language Education **Cr.Hrs. 3**

Examination of principles and demonstration of procedures for developing basic second language knowledge and skills in various contexts, e.g., ESL, EFL, AL, HL, IL. May not be held with the former EDUB 1620.

EDUB 3508 Language and Content Instruction of EAL Students **Cr.Hrs. 3**

Principles and procedures of teaching ESL/Bilingual students in subject-area classrooms, using content-based language instruction and language sensitive content instruction. May not be held with the former EDUB 1820.

EDUB 3510 Language Awareness for Teachers **Cr.Hrs. 3**

This course will focus on responding to students from immigrant, refugee and Indigenous backgrounds in the classroom, understanding how to teach pronunciation, grammar, word choice and subject area content. Through structural linguistics, this course aims to enhance teacher candidates' confidence in, and knowledge of, language structures necessary for teaching EAL learners. May not be held with EDUB 3502 when titled, "Language Awareness for Teachers."

EDUB 3512 Literature for Adolescents Cr. Hrs. 3

A survey of the literature available for adolescents. The course includes reading and discussion of the literature, and consideration of techniques for encouraging extensive reading. May not be held with EDUB 1710.

EDUB 3514 Literature for Children Cr. Hrs. 3

A survey of the literature available for children. The course includes reading and a discussion of the literature, and consideration of techniques for encouraging extensive reading. May not be held with EDUB 1720.

EDUB 3516 Art Across the Curriculum Cr. Hrs. 3

This course will emphasize the importance of visual learning and its potential for teaching in the various curriculum areas at all levels. Opportunities for studio work, discussion and planning will be provided. May not be held with EDUB 1730.

EDUB 3518 Drama Across the Curriculum Cr. Hrs. 3

For all students, specialist and non-specialist, who wish to develop a greater understanding and practice of drama in the classroom across the curriculum. May not be held with EDUB 1740.

EDUB 3520 Historical Development of Physical Science up to the 20th Century Cr. Hrs. 3

The major ideas and discoveries in science of the Ionians and the Greeks, the scientific revolution of the 16th and 17th centuries, and the 'modern' period of science, up to the 20th century will be explored with an emphasis on science education and scientific literacy. May not be held with EDUB 1760, PHYS 2700.

EDUB 3522 Recent Developments in Learning and Teaching Senior Years Mathematics Cr. Hrs. 3

The study of selected topics in mathematics in Senior Years. May not be held with EDUB 1800.

EDUB 3524 Practical Work in School Science Cr. Hrs. 3

This course, which is appropriate for early, middle and senior teacher candidates, will critically examine the role of practical work in the teaching and learning of school science. Topics will include: demonstrations, experiments, investigations, field experiences, simulations, data collection and interpretation, new educational technologies, assessment and laboratory safety. May not be held with EDUB 1870.

EDUB 3526 Integration of Technological Literacy Across the K-12 Curriculum Cr. Hrs. 3

Training teachers to analyze and teach about technological principles within the content area, and to develop specific teaching and learning interventions to infuse technological literacy across content areas. May not be held with EDUB 1780.

EDUB 3528 Media Literacy Cr. Hrs. 3

The role of media in society, designed to assist educators in all disciplines and levels to develop an informed and critical understanding of the mass media and its impact on teaching and learning. May not be held with EDUB 1680.

EDUB 3530 Beyond Schools: Experiencing Teaching and Learning in Community Settings Cr. Hrs. 3

This course provides a community-based field experience. Students will attend a weekly seminar and spend 20 hours a week for six weeks at a host site. The focus of the course is to consider, challenge, and broaden understandings of education, curriculum, and pedagogy within the context of social justice. Site examples: arts programs, nature reserves, youth programs. This is a pass/fail course. May not be held with EDUB 1840 when titled "Beyond Classrooms: Teaching and Learning in Community- Based Settings". Prerequisites: 3 credit hours from: EDUB 3312, EDUB 3322, EDUB 3332.

EDUB 3532 Basic Experiences in Movement and Dance Education Cr. Hrs. 3

A study of teaching movements/ dance education in Early (K-4) and Middle Years (5-8) schools. For both classroom teachers and physical education specialists, the course covers all traditional areas of movement instruction as well as movements' role across the curriculum. May not be held with EDUB 1750.

SECTION 8: Department of Curriculum, Teaching and Learning Course Descriptions-4000 Level

EDUB 4140 Senior Years: Teaching Biology Cr. Hrs. 3

An exploration of the Manitoba Science Curriculum Framework for Biology in grades 11 and 12, focusing particularly on the foundational principles underlying the learning and teaching of science in these documents, as well as the key scientific concepts in each unit of the curriculum. Following contemporary approaches to teaching and learning, particularly conceptual change and socio-scientific issues (SSI), readings and discussions will focus on content-specific issues related to teaching and learning biology at the senior level. May not be held with EDUB 2260. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4142 Senior Years: Teaching Chemistry Cr. Hrs. 3

An exploration of the Manitoba Science Curriculum Framework for Chemistry in grades 11 and 12, focusing particularly on the foundational principles underlying the learning and teaching chemistry. May not be held with EDUB 2270. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4144 Senior Years: Teaching Computer Science Cr. Hrs. 3

A study of the curriculum, instructional approaches, and assessment as they pertain to teaching computer science at the secondary level. Teacher candidates will compare and contrast technical, educational, assessment and professional development aspects of computer-related secondary school courses. This involves knowing and understanding the strengths and limitations of current curriculum documents. May not be held with EDUB 2330. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4146 Senior Years: Teaching General Science Cr. Hrs. 3

An overview of the theory and practice of teaching General Science in the context of the Manitoba Curriculum Framework at the Grade 9- 10 level. General principles of science and education, conceptual development, cognitive and learning theories, and scientific literacy, are presented and discussed. Emphasis is placed on using conceptual development models to help science teachers present concepts and topics. May not be held with EDUB 2280. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4148 Senior Years: Teaching Human Ecology Cr. Hrs. 3

A study of the planning and teaching of home economics. Emphasis will be placed on the new research on teaching, learning, assessment, principles of educational change, ICT, inclusivity, current brain research and how it affects learning, differentiated instruction, and multiple intelligences. May not be held with EDUB 2290. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4150 Senior Years: Teaching Mathematics Cr. Hrs. 3

A study of the curriculum and instructional approaches to teaching mathematics, including how mathematics is learned, how to structure learning opportunities for students, and developing and expressing, pedagogically sound approaches to teaching mathematics courses in secondary schools. May not be held with EDUB 2300. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4010 Pedagogy for Sustainable Well-being: Science, Mathematics and Social Studies Cr. Hrs. 3

An exploration and critical reflection on theory, research, and practice in education for sustainability in science, mathematics, and social studies and the ways in which multiple literacies can assist children in consolidating their knowledge and understanding of sustainable well-being. Course offered off-campus. May not be held with EDUB 2040, EDUB 2050 or EDUB 2060. Prerequisites: EDUB 3012, EDUB 3014, EDUB 3312. Corequisite: EDUB 4012.

EDUB 4012 Pedagogy in Multiple Literacies: Children as Meaning Makers Cr. Hrs. 3

A school-based course, taught in collaboration with EDUB 4010 Pedagogy for Sustainable Well-being: Science, Mathematics, and Social Studies, providing opportunities for teacher candidates to be immersed with children and teachers in curriculum inquiry related to learning languages/literacies, learning about languages/literacies, and learning through languages. Course offered off-campus. May not be held with EDUB 2000, EDUB 2010, EDUB 2070, and EDUB 2080. Prerequisite: EDUB 3010, EDUB 3312. Corequisite: EDUB 4010.

EDUB 4014 Early Years: Physical Education/Health Education Cr. Hrs. 3

The focus of this course is to promote the development of movement and personal management skills for lifelong activity and fitness. Teacher candidates will learn to create activities and strategies within the gymnasium/classroom that incorporate physical activity into daily routines. May not be held with EDUB 1020 or EDUB 2020.

EDUB 4050 Middle Years: Creating Classroom Learning Environments Cr. Hrs. 3

A study of the effective teaching practices which are essential for creating positive learning environments in middle-years classroom communities. Emphasis is placed on the social processes and pedagogy, especially the use of formative assessment and integrated curriculum approaches. May not be held with EDUB 1110 or EDUB 2400. Prerequisite: EDUB 3052.

EDUB 4152 Senior Years: Teaching Physical Education/Health Education Cr. Hrs. 3

A course designed to prepare teacher candidates to work with students in ways that enable and encourage them to develop the commitment and capacity to lead an active healthy lifestyle. The course will also develop and enhance students' life skills to promote physical and health literacy, and health related behaviours. May not be held with EDUB 2310. Prerequisite: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4154 Senior Years: Teaching Physics Cr. Hrs. 3

An exploration of the Manitoba Science Curriculum Framework for Physics in grades 11 and 12, focusing particularly on the foundational principles underlying the learning and teaching of physics. May not be held with EDUB 2320. Prerequisite: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4310 Early Years Practicum 3 Cr. Hrs. 3

Practical teaching experience for Early Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher (s). This is a pass/fail course. May not be held with EDUB 2960. Prerequisite: EDUB 3312.

EDUB 4312 Early Years Practicum 4 Cr. Hrs. 3

Practical teaching experience for Early Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher (s). This is a pass/fail course. May not be held with EDUB 2960. Prerequisite: EDUB 4310. Pre- or Corequisite: EDUA 4000.

EDUB 4320 Middle Years: Practicum 3 Cr. Hrs. 3

Practical teaching experience for Middle Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher (s). This is a pass/fail course. May not be held with EDUB 2970. Prerequisite: EDUB 3322. Pre- or Corequisite: EDUB 4050.

EDUB 4052 Teaching Mathematics in Middle Years 2 Cr. Hrs. 3

This course focuses on advanced instructional strategies in the teaching of mathematics in the middle years. May not be held with EDUB 2140. Prerequisite: EDUB 3054.

EDUB 4100 Teacher and Technology Cr. Hrs. 3

An introduction to educational and information technology in the classroom. Focus will be on the utilization of technology, the development of information skills for teachers and critical analyses of the potential of educational technology. May not be held with EDUB 1990.

EDUB 4102 Themes in Senior Years Cr. Hrs. 3

Themes in Senior Years is a topics course designed to expose students to current issues and topics relevant to professional thinking and practice. Topics are offered and represent those pedagogical practices that enhance and expand upon broad forms of teaching practice. Students will focus on an area of interest to experience pedagogies that promote choice and multiple modes of expression. May not be held with EDUB 2500. Prerequisite: EDUB 3332.

EDUB 4110 Senior Years: Teaching Art Cr. Hrs. 3

The development of skills for planning, teaching, and assessing visual art in a Senior Years setting. May not be held with EDUB 2200. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4112 Senior Years: Teaching Music Cr. Hrs. 3

An advanced study of curriculum, and instructional approaches and techniques relevant to the teaching of music in Senior Years. May not be held with EDUB 2240. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4114 Senior Years: Teaching Drama & Theatre Cr. Hrs. 3

An examination of the issues of arts, pedagogy, creative process and program development. May not be held with EDUB 2250. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4330 Senior Years: Practicum 3 Cr. Hrs. 3

Practical teaching experience for Senior Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). This is a pass/fail course. May not be held with EDUB 2980.

Prerequisite: EDUB 3332. Pre- or corequisites: 6 credit hours from: EDUB 4110, EDUB 4112, EDUB 4114, EDUB 4120, EDUB 4122, EDUB 4124, EDUB 4130, EDUB 4132, EDUB 4134, EDUB 4140, EDUB 4142, EDUB 4144, EDUB 4146, EDUB 4148, EDUB 4150, EDUB 4152, EDUB 4154.

EDUB 4332 Senior Years: Practicum 4 Cr. Hrs. 3

Practical teaching experience for Senior Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). This is a pass/fail course. May not be held with EDUB 2980.

Prerequisite: EDUB 4330. Pre-or corequisite: EDUA 4000.

EDUB 4502 Recent Developments in Curriculum, Teaching and Learning 2 Cr. Hrs. 3

The study of emerging topics in curriculum, teaching and learning not studied in regular program courses.

EDUB 4322 Middle Years: Practicum 4 Cr. Hrs. 3

Practical teaching experience for Middle Years in a Manitoba school with the guidance and under the supervision of a faculty advisor and cooperating teacher(s). This is a pass/fail course. May not be held with EDUB 2970. Prerequisite: EDUB 4320. Pre- or Corequisite: EDUA 4000.

EDUB 4120 Senior Years: Teaching English Language Arts Cr. Hrs. 3

An in-depth study of the curriculum and pedagogy relevant to inquiries into curriculum and pedagogy relevant to teaching English Language Arts in diverse, 21st century classrooms. May not be held with EDUB 2210.

Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4122 Senior Years: Teaching French Cr. Hrs. 3

A course that will focus on theory and practices as well as strategies in teaching French as a Secondary Language. Students will address issues and challenges faced in FSL literacy and spend time focusing on inclusion in the FSL classroom and benefits of allophone students in the FSL classroom. May not be held with EDUB 2340. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4124 Senior Years: Teaching Languages Cr. Hrs. 3

A course that will focus on theory and practices as well as strategies in teaching Heritage, Aboriginal, or International Languages. Students will address issues and challenges faced in literacy and spend time focusing on inclusion in the classroom. May not be held with EDUB 2350. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4130 Senior Years: Teaching Geography Cr. Hrs. 3

Designed to prepare students to become teachers of Geography using the Manitoba Senior Years Social Sciences curriculum. May not be held with EDUB 2220. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4132 Senior Years: Teaching History Cr. Hrs. 3

Designed to prepare students to become teachers of history with expertise to help students acquire historical knowledge, historical thinking, and attain the enduring understanding (topics) listed in the Manitoba Curriculum documents for history/ social studies. May not be held with EDUB 2230. Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

EDUB 4134 Senior Years: Teaching Native Studies Cr. Hrs. 3

An examination of the curricular and pedagogical issues relating to the teaching of Native Studies in Senior Years. Includes the study of trends and current issues relevant to the Canadian indigenous experience.

Prerequisites: EDUB 3100 and [3 credit hours from: EDUB 3110, EDUB 3120, EDUB 3130, EDUB 3140].

SECTION 8: Department of Curriculum, Teaching and Learning Course Descriptions-5000 Level

EDUB 5012 Video Art, Culture, and Education Cr. Hrs. 3

This course will focus on fostering students pedagogical, historical, theoretical, and sociological knowledge, as well as creative video skills. Students will learn about developing and implementing video across the curricula from grade 1 to grade 12 in order to incorporate video making and current viewing practices into classrooms. May not be held for credit with EDUB 1840 or EDUB 5220 where the title is 'Video Art, Culture, and Education.'

EDUB 5040 Theory and Practice of Teaching Art (Elementary) Cr. Hrs. 6

The theory and practice of teaching Art in the Elementary School will be examined through an inquiry into both the development of the child through his/her art expression and related curricular experiences.

EDUB 5060 Theory and Practice of Teaching Art in the Senior Years 1 Cr. Hrs. 3

An overview of major aspects of Art Education in the context of Senior Years 1 curriculum through a study of current theory, a variety of studio areas and related aesthetic concepts.

EDUB 5100 Developing Competency Skills in Enterprise Education 1 Cr. Hrs. 3

Promotes the development and integration of skills of creativity, innovation, self-reliance and responsibility in students, within the framework of an enterprise education/entrepreneurship paradigm. Participants develop teaching strategies and materials and learn to integrate these skills into current educational practices. Corequisite: EDUB 5110.

EDUB 5110 Developing Competency Skills in Enterprise Education 2 Cr. Hrs. 3

This course continues the promotion and application of student competency skills, within the framework of an enterprise education/entrepreneurship paradigm. Participants plan and organize a school, community or business venture, develop plans for the promotion and marketing of the product or service, arrange financial support, and make a presentation of their venture plan to a panel of evaluators. Corequisite: EDUB 5100.

EDUB 5120 Music in the Early Years/Middle Years School 1 Cr. Hs. 3

A course to assist classroom teachers plan for music making activities based on knowledge and proficiency in the use of Orff instruments and recorder.

EDUB 5130 Music in the Early Years/Middle Years School 2 Cr. Hrs. 3

A course to assist classroom teachers plan for music making activities based on knowledge and proficiency in the use of a wide range of string instruments (guitar, baritone ukulele, dulcimer, etc

EDUB 5140 Special Methods in Music 1 Cr. Hrs. 3

An advanced study of the Orff method as it applies to Early and Middle Years schools with emphasis on ensemble performance. The course is designed for the music specialist.

EDUB 5150 Special Methods in Music 2 Cr. Hrs. 3

An advanced study of the Kodaly method as it applies to Early and Middle Years schools with emphasis on the contributions of the method to fine choral performance. The course is designed for the music specialist.

EDUB 5160 School Band Cr. Hrs. 3

An advanced study of the methods for initiating and continuing a band in Middle and Senior Years schools with emphasis on the contributions of a band program to Middle Years education.

EDUB 5190 School Music Productions Cr. Hrs. 3

A study of the principles and procedures for presenting school music productions.

EDUB 5200 Readings in Curriculum, Teaching and Learning 1 Cr. Hrs. 3

Readings and research in special areas of curricular study related to curriculum, teaching and learning.

EDUB 5210 Readings in Curriculum, Teaching and Learning 2 Cr. Hrs. 3

Readings and research in special areas of curricular study related to curriculum, teaching and learning.

EDUB 5220 Recent Developments in Curriculum, Teaching and Learning 1 Cr. Hrs. 3

An opportunity to examine the theoretical bases for, and practical application of, recent or emerging developments in the area.

EDUB 5230 Recent Developments in Curriculum, Teaching and Learning 2 Cr. Hrs. 3

A continuation of certain topics of EDUB 5220 to extend and develop the study previously undertaken in these areas.

EDUB 5250 Music: Advanced Choral Methods Cr. Hrs. 3

Advanced methods in choral instruction and conducting through a study of choral literature related to school music programs.

EDUB 5330 Teaching Language and Literacy in the Content Areas Cr. Hrs. 3

An examination of approaches to literacy in the content areas (science, mathematics, social studies, etc); emphasis on strategies for reading, writing, and studying, materials, and material assessment, procedures, and supporting research.

EDUB 5350 Current Issues in Language and Literacy Cr. Hrs. 3

A special topics course designed to update students on the most recent developments in Language and Literacy Education.

EDUB 5360 Children's Literature Cr. Hrs. 3

The nature and psychology of literature for children in the elementary grades. Areas for consideration include an examination of materials, use of evaluative criteria to assess the materials, and research findings concerning development, interest and use of the material. Not to be held with EDUB 5361.

EDUB 5370 Adolescent Literature Cr. Hrs. 3

The nature and psychology of literature for students in Grades 7-12. Areas for consideration include an examination of materials, use of evaluative criteria to assess the materials, and research findings concerning development, interest and use of the material. Not to be held with EDUB 5371.

EDUB 5380 Theory and Practice in Written Composition Cr. Hrs. 3

A course designed to explore the nature of written composition and to provide practice in various types of writing.

EDUB 5390 The Teaching of Written Composition Cr. Hrs. 3

A course designed to assist teachers in organizing and implementing writing programs. Consideration will be given to motivational strategies, useful writing activities and exercises, and practice in editing and evaluation.

EDUB 5400 Diagnostic and Remedial Techniques in Language Arts Cr. Hrs. 6

Diagnosis and correction at the classroom level. Opportunities for detailed analysis of diagnostic instruments. Practical aspects include diagnosis of language arts problems, prescriptions, and correction on the basis of evaluation.

EDUB 5470 Recent Developments in Curriculum: Mathematics and Natural Sciences 1 Cr. Hrs. 3

This course will provide an opportunity to examine the theoretical bases for, and practical application of, recent or emerging developments in the area.

EDUB 5480 Recent Developments in Curriculum: Mathematics and Natural Sciences 2 Cr. Hrs. 3

A continuation of certain topics of EDUB 5470 to extend and develop the previous study undertaken in these areas.

EDUB 5510 ESL Materials Development and Practicum Cr. Hrs. 3

A general survey of published ESL instructional materials will form the basis for students to develop lesson materials to be demonstrated in a supervised practicum. May not be held with the former EDUB 1860. Pre- or corequisites: EDUB 5580 and instructor permission

EDUB 5512 Teacher Development and Leadership in Second Language Education Cr. Hrs. 3

This course explores current approaches in the development of second language teachers and initiatives to facilitate leadership in programs inclusive of language learners.

EDUB 5514 Assessment and Testing of ESL/EAL Learners Cr.Hrs. 3

This course will examine various methods in assessment and testing of English language learners, including formative, summative and alternative assessment strategies. Attention will be paid to the following areas: initial and ongoing needs assessment, evaluating without tests, evaluating with tests, and questioning the educative value of assessment and testing. May not be held with EDUB 5220 when titled "Assessment and Testing of ESL/EAL Learners."

EDUB 5516 Teaching Literacy, Academics, and Language (LAL) Learners Cr.Hrs. 3

This course will introduce course participants to the theoretical and practical aspects of teaching K-12 LAL learners, who are newcomers to Manitoba and have limited or no previous schooling experiences due to war or refugee status. These learners need to develop literacy and foundational academic skills in addition to learning English as an additional language as they usually have little or no literacy in any language. Course

participants will examine LAL students' backgrounds, learn different instructional strategies and develop appropriate materials to meet the diverse needs of LAL learners effectively. May not be held with EDUB 5220 when titled "Teaching Literacy, Academics, and Language (LAL) Learners."

EDUB 5518 Intercultural Communication in Transnational Contexts **Cr.Hrs. 3**

This course provides an introduction to theory and practice related to intercultural communication. Students will investigate the ways in which language, culture, and nonverbal communication play out in cross cultural contact. Students will become attuned to the values, beliefs, and assumptions they hold generally and about communication specifically as they interact with people unlike themselves. The course combines theory and research as well as the application of concepts, both in class and out of class, by way of activities, simulations, and interactions with people of other cultures. May not be held with EDUB 5220 when titled "Intercultural Communication in Transnational Contexts."

EDUB 5520 Grammar in ESL Learning and Instruction **Cr. Hrs. 3**

A survey of English grammar and its applications to teaching all levels of ESL, from beginning to very advanced. Lectures, readings, group discussions, and demonstrations are designed to develop knowledge and skills necessary to teach oral and written grammar in traditional and innovative ways.

EDUB 5530 ESL and Content Instruction **Cr. Hrs. 3**

Principles and procedures of teaching ESL/bilingual students in subject-area classrooms, using content-based language instruction and language sensitive content instruction.

EDUB 5540 Vocabulary and Pronunciation Instruction **Cr. Hrs. 3**

Principles and procedures in teaching English vocabulary and pronunciation for effective communication (sounds, spellings, word and sentence stress, rhythm, intonation, connected speech, integration). May not be held with the former EDUB 1640.

EDUB 5550 Library Reference and Informational Materials **Cr. Hrs. 6**

Principles of reference and research with special emphasis on interdisciplinary investigation; the problems of access to information; types of reference sources, their evaluation and selection for library reference collections; services to library users.

EDUB 5580 Fundamentals of ESL (English Second Language) Instruction **Cr. Hrs. 3**

Examination of principles and demonstration of procedures for teaching ESL in Canada and EFL overseas.

EDUB 5600 The Teaching of Social Studies in the Early and Middle Years **Cr. Hrs. 3**

This course concentrates on the teaching of social studies in schools from Kindergarten to approximately Grade Nine, with particular reference to the implications of social studies teachers of the characteristics of students at those levels.

EDUB 5660 Theoretical Foundations of Social Studies **Cr. Hrs. 3**

This course examines recent developments in social studies education. It aims to familiarize students with the debates, the research and the innovations (successful and otherwise) that have characterized social studies curriculum.

EDUB 5690 Seminar in Business Education **Cr. Hrs. 6**

Curriculum development; methodologies; evaluation and measurement; research.

EDUB 5760 Recent Developments in Mathematics Education **Cr. Hrs. 3**

Reading and research in mathematics education (selected topics).

EDUB 5770 Diagnosis and Remediation in Elementary School Mathematics **Cr. Hrs. 3**

Diagnostic and remedial methods in elementary school mathematics. Not to be held with EDUB 5771.

EDUB 5840 Internet Pedagogy **Cr. Hrs. 3**

Theory and practice of teaching and learning with the Internet. Focus on instructional applications of the Internet, for all levels from K-12 as well as adult, post-secondary and training settings. Current research will be examined and monitored for its relevance to this fast-changing field.

EDUB 5850 Theory and Practice of Designing and Developing Web-based Courses **Cr. Hs. 3**

Theory and practice of the design, development and evaluation of on-line web-based distance education courses for K-12 through adult/post-secondary programs.

EDUB 5860 Project Management in Education and Training **Cr. Hrs. 3**

Theory and practice of project management principles in education and training. Emphasis on application of concepts and procedures of educational project management including planning and proposal creation for developmental and/or research activities in educational agencies.

EDUB 5870 Mentoring for Teachers **Cr. Hrs. 3**

An examination of mentoring practices with particular focus on educative ways of mentoring teacher candidates and new teachers

EDUB 5940 Instructional Product Development **Cr. Hrs. 3**

Systematic development of an instructional product. Includes needs assessment, goal setting, writing objectives, task analyses, product development, evaluation techniques.

SECTION 8: Department of Educational Administration, Foundation and Psychology Course Descriptions-1000 Level

EDUA 1560 Adult Learning and Development **Cr. Hrs. 3**

A study of the extensive knowledge of lifespan development and its importance for adult education practitioners. With a focus on development, learning and change, emphasis is placed on the importance of context and individual differences in adult learning.

EDUA 1570 Foundations of Adult Education **Cr. Hrs. 3**

An introduction to the field of Education from a local and global perspective. Attention will be given to historical movements in adult education, philosophical perspectives, participation and motivation, transformative perspectives on adult learning, and current and future perspectives on adult education. Not to be held with EDUA 5300.

EDUA 1580 Program Planning in Adult Education **Cr. Hrs. 3**

An introduction to the theory and practice of program planning in adult education. Attention is given to the context in which learning is to take place, the structuring of adult learning opportunities, and the logistics of successful programming.

EDUA 1590 Facilitating Adult Education Cr. Hrs. 3

A study of theoretical and practical aspects of facilitation in adult education.

SECTION 8: Department of Educational Administration, Foundation and Psychology Course Descriptions-3000 Level

EDUA 3000 Canadian School Systems and Their Public Purpose Cr. Hrs. 3

The purpose of the course is to explore with teacher candidates the ways in which schooling and teachers work is shaped by, and shapes, particular administrative, social, political, economic, historical, legal, organizational, and professional contexts. May not be held with EDUA 2810.

EDUA 3002 Contested Spaces in Education Cr. Hrs. 3

An examination of educational ideas and practices that are often contested in the context of a diverse society. The course also focuses on understanding schooling through historical, philosophical, sociological, and cross-cultural perspectives. May not be held with EDUA 1810.

EDUA 3400 Aboriginal Education Cr. Hrs. 3

A study of fundamental issues, philosophies, and models of Aboriginal education. Within a multi-modal and interactive setting, cultural, spiritual, social, and political perspectives regarding Aboriginal education will be critically explored. May not be held with EDUA 1500.

EDUA 3420 Cross-Cultural Education Cr. Hrs. 3

Theory and practical applications related to understanding the complexities of culture, race, ethnicity, social inequality in classrooms, focusing on Aboriginal groups, immigration, and the needs of students in culturally diverse classrooms. May not be held with EDUA 1540.

EDUA 3500 Recent Developments in Educational Administration and Foundations Cr. Hrs. 3

Topics will vary depending on the needs and interests of students, and will include specialized topics in educational administration and foundations.

EDUA 3502 Recent Developments in Educational Psychology Cr. Hrs. 3

Topics will vary depending on the needs and interested of teacher candidates, and will include specialized topics in educational psychology not studied in regular program courses.

EDUA 3506 Foundations of Moral and Religious Education Cr. Hrs. 3

Examination of the theory and practice of moral and religious education, including curricular and pedagogical issues in both humanistic and religious perspectives. May not be held with EDUA 1510.

EDUA 3508 Measurement and Evaluation Cr. Hrs. 3

Theory and practical applications are stressed in the preparation, use, and interpretation of various approaches to assessing student learning. May not be held with EDUA 1502.

EDUA 3510 Communication and Interpersonal Relationships in Education Cr. Hrs. 3

The purpose of this course is to help teacher candidates increase their awareness, understanding and proficiency in communication and interpersonal relationships. Emphasis in this course is on the integration of theory, research and practice in the areas of communication and interpersonal relationships in schools. May not be held with EDUA 1550.

SECTION 8: Department of Educational Administration, Foundations and Psychology Course Descriptions-5000 Level

EDUA 5010 Introduction to Educational Administration Cr. Hrs. 3

A study of the basic concepts, tasks and processes of administration as they apply to education. Not to be held with EDUA 5011.

EDUA 5012 Legal and Administrative Aspects of Schools for Clinicians Cr. Hrs. 3

This course will involve an examination of the form, functioning and organizational aspects of schooling through the lenses of legislation, policy, and public expectations. Students will gain an understanding of The Public Schools Act and The Education Administration Act (and associated Regulations), as well as other pertinent statutes, and their individual and collective application to, and impact upon, the work of school personnel in Manitoba. May not be held for credit with EDUA 5080 where title is "Legal and Administrative Aspects of Schools for Clinicians."

EDUA 5020 Principles of Curriculum Development Cr. Hrs. 3

An examination of approaches to curriculum design. Influences on the design process, and aspects of implementation. Emphasis is given to teacher participation in creating curriculum. Not to be held with EDUA 5021.

EDUA 5030 Management of Educational Institutions Cr. Hrs. 3

A study of basic patterns of organization and the administrator's role in educational institutions. The focus is on decision making, communicating, planning and evaluating in educational institutions. Not to be held with EDUA 5031.

EDUA 5040 Personnel Administration in Education Cr. Hrs. 3

An examination of the administrator's relationships with other personnel in education, with emphasis on personnel policy, staff development and motivation. Not to be held with EDUA 5041.

EDUA 5060 Principles of Instructional Supervision Cr. Hrs. 3

An analysis of theoretical models of instruction and supervision and their application in education. Not to be held with EDUA 5061.

EDUA 5080 Recent Developments in Educational Administration 1 Cr. Hrs. 3

An opportunity to examine the theoretical bases for, and application of, recent or emerging developments in educational administration.

EDUA 5090 Recent Developments in Educational Administration 2 Cr. Hrs. 3

A continuation of certain topics of EDUA 5080 to extend and develop studies previously undertaken in these areas.

EDUA 5100 Issues in the Administration of Education Cr. Hrs. 3

An analysis of issues in the administration of educational organizations. Not to be held with EDUA 5101.

EDUA 5200 Readings in Educational Foundations Cr. Hrs. 3

Readings and research in selected areas of the study of education.

EDUA 5210 Recent Developments in Educational Foundations 1 Cr. Hrs. 3

An opportunity to examine the theoretical bases for, and application of, recent or emerging developments in educational foundations.

EDUA 5230 Studies in International Education Cr. Hrs. 3

An examination of educational issues and practices in other countries, especially those of the third world. Emphasis will be given to teaching and administration in developing countries.

EDUA 5480 Counselling Skills Cr. Hrs. 3

Emphasis will be on the development of counselling skills such as attending and listening, reflection of content and feelings, feedback and self-disclosure, focusing and summarization. Not to be held with EDUA 5481.

Prerequisite or co-requisite: EDUA 5500 or EDUA 5501 (C). Course evaluated on a pass/fail basis. Enrolment limited.

EDUA 5490 Field Placement in Counselling Cr. Hrs. 3

A field-based counselling situation for students to apply counselling skills under qualified professionals in the field, and supported by university instructors. Not to be held with EDUA 5491. Prerequisite or co-requisite: [EDUA 5500 or EDUA 5501 (C)] and [EDUA 5480 or EDUA 5481 (P)]. Course evaluated on a pass/fail basis. Enrolment limited.

EDUA 5500 Theories and Issues in School Counselling Cr. Hrs. 3

A study of the philosophy and theories of counselling, issues in school guidance and counselling. Not to be held with EDUA 5501.

EDUA 5510 Elementary School Counselling Cr. Hrs. 3

An examination of the role and functions of the counsellor in the elementary school. Not to be held with EDUA 5511. Prerequisite or co-requisite: EDUA 5500 or EDUA 5501 (C).

EDUA 5520 Ethics in Counselling Cr. Hrs. 3

In this course, participants will be introduced to the Codes of Ethics for counsellors. Major ethical issues related to the following topics will be discussed: informed consent, confidentiality, record-keeping, boundary issues, training and competence, clinical supervision and multicultural and diversity issues. Participants will get an opportunity to practice various ethical decision-making models.

EDUA 5530 Secondary School Counselling Cr. Hrs. 3

A study of counselling as related to secondary-school practice. Emphasis on the secondary-school counsellor's role and functions. Examination of the various counsellor services: educational, orientation, staff, etc. Not to be held with EDUA 5531. Prerequisite or co-requisite: EDUA 5500 or EDUA 5501 (C).

EDUA 5540 Groups in Guidance Cr. Hrs. 3

A study of groups, group leadership and related skill development, especially as related to a counsellor's functioning in the schools. Not to be held with EDUA 5541. Prerequisite or co-requisite: EDUA 5500 or EDUA 5501 (C).

EDUA 5550 Psychology of Human Relationships Cr. Hrs. 3

A study of interpersonal relationships. A laboratory approach is used to increase the personal sensitivity of the participants to people. Particularly

suitable for teachers, school administrators, and other professionals. Not to be held with EDUA 5551.

EDUA 5570 Family Life Education Cr. Hrs. 3

A study of human sexuality and family relationships. Consideration is given to research findings, teaching resources and the methods, development, and cooperation with home and community. Not to be held with EDUA 5571.

EDUA 5580 Career Development Cr. Hrs. 3

Study and application of theories of career development, occupational choice, and decision making; evaluation and design or self-knowledge programs in counselling for decision. Not to be held with EDUA 5581.

EDUA 5590 Career Information Cr. Hrs. 3

A study of work, local employment, and training; analysis of career information; evaluation and design of career resource centres; a development study of career education.

EDUA 5600 Introduction to Inclusive Special Education Cr. Hrs. 6

A survey course for educators interested in inclusive special education - legislative, pedagogical, attitudinal and systemic barriers to inclusion and exemplary inclusive provisions are covered. Not to be held with EDUA 5601.

EDUA 5610 Field Experience in Inclusive Special Education Cr. Hrs. 6

A field-based situation for full and part-time students to apply inclusive special education skills under the supervision of qualified school staff and supported by professional peer mentors and university instructors. Approximately 160 hours of field-based service required. Prerequisite or co-requisite: [EDUA 5600 or EDUA 5601 (C) or equivalent] and [EDUA 5630 or EDUA 5631 (C) or equivalent] and [EDUA 5660 or EDUA 5661 (C) or equivalent]. Course evaluated on a pass/fail basis.

EDUA 5620 Teaching Children Through Alternative and Augmented Communication Cr. Hrs. 3

An examination of alternative and augmented communication issues, services, supports, and inclusive teaching and learning strategies.

EDUA 5630 Assessment and Instruction in Inclusive Special Education Cr. Hrs. 6

An examination of curriculum-based and classroom-based assessment to guide the instruction of students experiencing learning or behavioural difficulties in inclusive classrooms. Not to be held with EDUA 5631. Prerequisite or co-requisite: EDUA 5600 or 5601 (C) or equivalent.

EDUA 5640 Inclusive Special Education: Early and Middle Years Cr. Hrs. 3

This course is designed for educators responsible for the integration of students with special learning needs into the early and/or middle years classroom.

EDUA 5650 Inclusive Special Education: High School and Transition to Adult Life Cr. Hrs. 3

This course is designed for those responsible for the education of students with special learning needs into high school.

EDUA 5660 Organization and Delivery of Resource Program and Support Services Cr. Hrs. 3

A critical study of the nature of resource teacher programs and an analysis of factors influencing program development and effectiveness. Not to be held with EDUA 5661. Prerequisite or co-requisite: EDUA 5600 (C).

EDUA 5670 Strategies for Organizing Inclusive Classrooms and Schools **Cr. Hrs. 3**

An examination of the organization and implementation of school-wide supports for access, learning, socialization, behaviour, family liaison, clinical engagement, and community services. Organizational strategies to enhance consultation, cooperation, collaboration and professional development are included. Not to be held with EDUA 5671. Prerequisite or co-requisite: [EDUA 5600 or EDUA 5601 (C) or equivalent].

EDUA 5680 Promoting Responsible Behaviour in Educational Settings **Cr. Hrs. 3**

The course is designed to provide teachers with an understanding of the needs of children who display maladaptive behaviours in a school setting. Conceptualization of behaviour disorders, identification/assessment procedures, and intervention strategies will be studied. The purpose of the course is to enable teachers to generate intervention strategies which are appropriate in an educational setting. Not to be held with EDUA 5681.

EDUA 5690 Focus on Exceptionality: Gifted and Talented **Cr. Hrs. 3**

Students will be introduced to various topics and issues in the realm of gifted education, including theoretical models; relevant research, and appropriate teaching and assessment practices.

EDUA 5710 Readings in Educational Psychology 1 **Cr. Hrs. 3**

Directed readings and study of topics in various aspects of education from the psychological viewpoint.

EDUA 5730 Recent Developments in Educational Psychology 1 **Cr. Hrs. 3**

An opportunity to examine the theoretical bases for, and practical application of, recent or emerging developments in this area.

EDUA 5740 Recent Developments in Educational Psychology 2 **Cr. Hrs. 3**

An opportunity to examine the theoretical bases for, and practical application of, recent or emerging developments in this area.

EDUA 5760 Psychology of Instruction in Educational Contexts **Cr. Hrs. 3**

Designed primarily, although not exclusively, for classroom teachers and school personnel. A critical examination of major theoretical foundations and models of instruction. The course aims at the integration and application of traditional and emerging approaches and strategies of classroom instruction. Prerequisite: [EDUA 1800 (C)] or [PSYC 1200 (C)], or equivalent.

EDUA 5770 Focus on Exceptionality: An Ecological Approach to FAS/E **Cr. Hrs. 3**

Students will be introduced to an ecological or multidisciplinary approach regarding children with FAS/E. Theoretical frameworks and evidence based assessment and instructional practices will be covered.

EDUA 5800 Introduction to Educational Research **Cr. Hrs. 3**

A study of scientific inquiry in the field of education. Research and statistical methods are surveyed within the context of educational research. Particularly recommended for students interested in the evaluation and application of research findings. Not to be held with EDUA 5801.

EDUA 5810 Theory of Test Construction **Cr. Hrs. 3**

Particular attention is given to problems of item analysis, validity, reliability, and test evaluation in the educational setting. Norm and criterion referenced tests are considered. Not to be held with EDUA 5811.

EDUA 5930 Observing Child Behaviour **Cr. Hrs. 3**

The use of qualitative observation techniques, especially in educational settings, to understand children's behaviour, thinking, and motivations. Not to be held with EDUA 5930.

EDUA 5940 Language and Symbolic Process **Cr. Hrs. 3**

The focus in this course is on the role of symbolic learning in the development of the young child. A study of theories on symbol formation is intended to serve as a framework for examining the emergence of representational capacities in movement, gesture, play, drawing and three dimensional media.

Faculty of Engineering

Dean: Dr. Jonathan Beddoes, Ph.D., P.Eng.
 Associate Dean(s): Nariman Sepehri, Ph.D., P.Eng. (Undergraduate Programs); Dr. Cyrus Shafai, Ph.D., P.Eng. (Research and Graduate Programs); Dr. Marcia Friesen, Ph.D., P.Eng., (Design Education).
 Campus Address/General Office: E2-290 EITC (Engineering and Information Technology Complex)
 Email Address: eng_info@umanitoba.ca
 Telephone: (204) 474 9809
 Fax: (204) 275-3773
 Website: umanitoba.ca/faculties/engineering

Academic Staff:

Biosystems Engineering:

For a complete listing of academic staff, please refer to the following website:
<http://umanitoba.ca/faculties/engineering/departments/biosystems/facstaff/acadstatic.html>

Civil Engineering

For a complete listing of academic staff, please refer to the following website:
<http://umanitoba.ca/faculties/engineering/departments/civil/facultystaff/acadstatic.html>

Electrical and Computer Engineering

For a complete listing of academic staff, please refer to the following website:
<http://umanitoba.ca/faculties/engineering/departments/ece/staff/academics.html>

Mechanical Engineering:

For a complete listing of academic staff, please refer to the following website:
<http://umanitoba.ca/faculties/engineering/departments/mechanical/staff/2199.html>

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SECTION 1: Degrees Offered

| Degree Offered | Years to Complete | Total Credit Hours |
|---|-------------------|--------------------|
| Bachelor of Science in Engineering (Biosystems) | *4 | 150-153 |
| Bachelor of Science in Engineering (Civil) | *4 | 163 |
| Bachelor of Science in Engineering (Computer) | *4 | 152-157 |
| Bachelor of Science in Engineering (Electrical) | *4 | 158-163 |
| Bachelor of Science in Engineering (Mechanical) | *4 | 157-162 |
| Post-Baccalaureate Diploma in Engineering | 1-2 | Minimum of 24 |

*One year in Preliminary Program (36 credit hours) for direct admission students or in Preliminary Program courses (or equivalent) taken while in other faculties or University I, plus three years in a departmental program.

1.1 The Profession of Engineering

Engineers use fundamental principles and energy sources from the natural world and direct them to the benefit of people. They interpret science in terms of material, human needs and, managing personnel, cost, and supplies. The profession is involved in all aspects of construction and manufacturing, including conceptualization, design, preparation of plans and specifications, and fabrication of products to meet predetermined standards of reliability and performance. Engineers acquire competence through instruction in basic sciences, mathematics, and engineering sciences; by introduction to the processes of synthesis and design; by complementary studies in the humanities, social sciences, and management; by learning from the skills and experience of more senior engineers during the early years of employment.

The educational objective in the Faculty of Engineering is to prepare students for positions of leadership in a world where engineering, science, and management are of major importance.

1.2 Available Majors

- Biosystems Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering

1.3 Available Minors

- Arts
- Computer Science

- Geological Sciences
- Management
- Mathematics
- Music
- Recreational Studies

SECTION 2: Admission to the Faculty of Engineering

The following is a summary of the admission requirements. Equivalent academic courses completed at recognized universities elsewhere will be considered. All admission requirements, as well as application deadline dates and forms, are included in an applicant information bulletin that is available from the [Admissions Office](#), Enrolment Services, 424 University Centre; this information is also posted on the university's website.

Direct admission into the Faculty of Engineering from high school:

Applicants may apply directly to the Preliminary Engineering Program from a Manitoba high school (or the equivalent) and must meet the General Entrance and Specific Admission Requirements for the Faculty of Engineering. The General Admission Requirement is a Manitoba (or equivalent) high school graduation. The Specific Admission Requirement is a minimum 85% average over the following three subjects, with no less than 60% in each course: Chemistry 40S, Precalculus Mathematics 40S, and Physics 40S. In cases where the number of eligible applicants exceeds the available spaces, applicants will require higher averages than stipulated to be successful in the admissions competition.

This information is on the following web site:

http://umanitoba.ca/student/admissions/media/direct_entry_bulletin.pdf

All other admissions:

A minimum of 8 of the 12 courses in the Preliminary Engineering Program, section 4.2, each with a minimum grade of "C", and a minimum Adjusted Grade Point Average (AGPA) of 2.0. In addition, if the total number of credit hours attempted by the student in all courses that apply in the Faculty of Engineering meets or exceeds 72, then the ratio of those credit hours passed (from all courses with a grade of "C" or better that are applicable to the student's potential Engineering program) to total credit hours attempted must be greater than or equal to 75%. Furthermore, if the student has attempted less than 72 credit hours, the total number of failed credit hours (from all courses with a grade of "D" or "F" that are applicable to the student's potential Engineering program) must not exceed 18 credit hours in order to be eligible to be considered for admission.

Acceptance to Engineering programs is competitive. Courses must be completed within ten years of the application date in order to be considered for transfer credit.

English and mathematics requirements:

All students are required to complete the University written English and mathematics requirement within the first 60 credit hours of their program. The requirement is described in the chapter General Academic Regulations and Requirements of this Calendar. In the Engineering programs the mathematics requirement is satisfied by one of MATH 1510 or MATH 1710 (or an equivalent); the written English requirement is satisfied by completing a course selected from the list of approved Written English Courses for Engineering Students (see 4.2.1).

Chemical Engineering at the University of North Dakota

The University of Manitoba has an agreement with the University of North Dakota, Grand Forks, N.D., which allows students to obtain a degree in

chemical engineering from the University of North Dakota by taking the Preliminary Engineering program at the University of Manitoba and three years at the University of North Dakota. The chemical engineering program at the University of North Dakota is accredited by the Accreditation Board for Engineering and Technology in the United States and is recognized by the Engineers Geoscientists Manitoba (formerly the Association of Professional Engineers and Geoscientists of Manitoba).

SECTION 3: Academic Regulations

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the Faculty of Engineering has regulations and requirements, published below, which apply specifically to its students. Notwithstanding the regulations given in this section, the Faculty Council of Engineering reserves the right to rule on individual cases in exceptional circumstances.

3.1 Appeals

Students who feel that they have received unfair treatment in a course should appeal to the instructor. If the matter is not thereby resolved, it should be raised with the Department Head and subsequently the Associate Dean (Undergraduate Programs).

A student's academic status is based on academic performance. Students who feel that there are circumstances that have affected their academic performance should write to the Associate Dean (Undergraduate Programs), Chair of the Committee on Standing and Appeals, E1-284 EITC. Information regarding this process is available from the Undergraduate Student Services Office, E1-284 EITC and may be viewed through the following web site:

http://umanitoba.ca/faculties/engineering/student_resources/sr_policies_appeals.html

3.2 Attendance and Approved Leaves

3.2.1 Attendance in Courses

When the number of unexcused absences recorded against a student in the Faculty of Engineering in any course exceeds 10 percent of the number of lectures and laboratories for that course the instructor may report the case to the Dean of Engineering. When a student's attendance or work continues to be unsatisfactory, the instructor has the authority to exclude the student from classes, or examinations, or both. Such cases shall be reported to the Faculty Council of Engineering at the first opportunity. Students who are excluded from an examination for inadequate attendance in a compulsory course will receive a failing grade and be required to repeat the course.

3.2.2 Leaves of Absence

Students may make a written request to the Associate Dean (Undergraduate Programs) for a Leave of Absence from their studies when significant circumstances (i.e. medical or compassionate) affect their ability to continue in their program. Should it be approved, the student will be notified in writing of the duration of the leave. The limit on a student's time to complete their Engineering program, as set out in Section 3.11, will be extended by the duration of the approved Leave of Absence.

For situations affecting a student's ability to complete courses already in progress, see regulation 3.16 Withdrawal from Courses.

Notwithstanding a Leave of Absence, student may choose not to register for courses in any term at their own discretion. However, doing so *will not* extend a student's time to completion as set out in Section 3.11.

3.3 Categories of Students

A student shall normally register for three to six courses in a term. Registration for more than six or fewer than three courses in a term must be approved by the Department Head or, in the preliminary program, by the Associate Dean (Undergraduate Programs). Students must also receive approval for registration in courses that are not part of the regular degree program.

All undergraduate programs offered by the Faculty of Engineering are full-time programs. Engineering considers registration in 15 credit hours per term to be a full course load. Full-time status is defined as being registered in at least 60 percent of this load, or 9 credit hours per term. Scholarships and other awards may require registration in more than this minimum.

3.4 Complementary Studies Electives

Complementary studies electives are an integral part of the curriculum. Their purpose is to broaden the student's experience beyond the purely scientific and technical content of engineering. They include studies in engineering economics and the impact of technology on society, as well as the central issues, methodologies and thought processes characteristic of the humanities and social sciences. Opportunities for development of the student's oral and written communication skills are also provided. The complementary studies elective requirements may vary from one program to another. Course numbers beginning with a 0 (i.e. ENGL 0930) are not allowed as complementary studies electives and ARTS 1110 Introduction to University cannot not be used for credit in the Faculty of Engineering.

3.5 Procedure Regarding the Inclusion of Elective Courses Taken Towards a Student's Degree Requirements

Upon Admission Into Engineering

At the time of admission, students may choose to apply (transfer) some or all eligible non-Engineering elective courses (i.e., complementary studies electives, science electives, free electives) taken prior to their admission to the Faculty towards their current Engineering degree program. All attempts for those selected courses shall be applied to the student's degree program and included in the calculation of Degree Grade Point Average (DGPA).

After Admission Into Engineering

Grades for all eligible courses (i.e., technical electives, complementary studies electives, science electives, free electives) attempted following admission to Engineering shall be included in and applied to a student's current degree program.

Special cases for either circumstance may be considered at the discretion of the Faculty of Engineering Associate Dean (Undergraduate Programs).

3.6 Course Selection

When arranging a program of study, a student must satisfy the following requirements:

- All prerequisite and corequisite course requirements must be met.
- All previously failed compulsory courses must be repeated. Students repeating a course previously taken are subject to Limited Access. Limited Access information may be viewed on the Registrar's Office web site as follows:
<http://umanitoba.ca/student/records/academicpolicychanges/limitedaccessfaq.html>
- Students are not normally allowed to repeat courses graded "C" or higher, except under special circumstances with the approval of the

Department Head, or for students in the Preliminary Engineering Program, of the Associate Dean (Undergraduate Programs).

- Failed elective courses may be repeated or replaced with alternative elective courses, however, all attempts will be included in the degree grade point average calculation.
- Prerequisite Course:** A prerequisite course must have been completed with a "C" grade or better before a subsequent course can be attempted. Under exceptional circumstances, a course instructor may waive, subject to approval by the Department Head (or designate), a prerequisite requirement.
- Corequisite Course:** A corequisite course must be taken concurrently or before its companion course. Under exceptional circumstances, a course instructor may waive, subject to approval by the Department Head (or designate), a corequisite requirement.

3.7 Examinations

Deferred Examinations

If you miss a final examination for medical or compassionate reasons, you may be granted a deferred examination. Applications for a deferred examination after the examination has been missed must be filed **within 48 hours** of the date of the missed examination. A medical certificate or other appropriate documentation may be required.

(See Chapter, General Academic Regulations and Requirements of this Calendar for more details)

Deferred Examinations are normally scheduled to take place within 30 working days from the end of the examination series from which the examination was deferred. The date of the deferred examination for a particular course will be set by the Dean's Office no later than January 15, May 15 or Sept 15 and in consultation with the instructor.

Supplemental Examinations

A student who has attempted to meet all requirements for the degree and has a single failure in their final academic year, in an Engineering course, may apply for a supplemental examination in that course. Supplemental examinations may not be requested for any other reason. A student shall only be permitted to exercise the privilege of writing a supplemental examination once in their degree program.

The grade for a course in which a supplemental examination is written shall be calculated in the following manner, with the grade reported being the greater of these two calculations:

- The supplemental examination shall have the same percentage weighting as the original examination, and shall be combined with all term marks;
- The supplemental examination shall have the percentage weighting equal to the combined weight of the original examination and all term tests, and shall be combined with all other term marks.

Both the original course grade and the supplemental examination course grade are retained on the student's record, and both are used in the calculation of TGPA and DGPA.

In the event that the supplemental examination is not successfully passed, the course must be repeated again in a subsequent term.

The results of supplemental examinations must be reported to the Faculty Council of Engineering. The supplemental examination privileges apply only to courses offered by the Faculty of Engineering.

Challenge for Credit

Courses offered in Engineering may not be challenged for credit.

3.8 Grading and Assessment

All grades awarded by instructors for undergraduate courses offered in the Faculty of Engineering are reviewed by examiners' boards, which comprise all of the instructors in the student's program year. After approval by department councils, grades are presented to the Faculty Council of Engineering for acceptance. Grades are published subsequent to their approval by the Faculty Council of Engineering.

Following are the descriptions of grade point averages used for evaluation at end of each of the terms (Fall, Winter, and Summer):

Term Grade Point Average (TGPA)

The Term Grade Point Average (TGPA) is computed from all of the final grades in all undergraduate courses completed during a given academic term.

Degree Grade Point Average (DGPA)

The Degree Grade Point Average (DGPA) is computed from the final grades obtained in all courses attempted, including applicable courses transferred from other faculties and other institutions, as part of a student's current degree program. Where a course has been repeated or replaced by an approved substitution or equivalent course, all attempts shall be included in the computation.

Cumulative Grade Point Average (CGPA)

The Cumulative Grade Point Average (CGPA) is computed from the final grades in all undergraduate courses attempted at the University of Manitoba and courses transferred from other faculties and other institutions.

Dean's Honour List

A continuing student who achieves a Term Grade Point Average (TGPA) of 3.50 or higher in their most recent academic term will be placed on the Dean's Honour List. The assessment is based on a minimum of 12 credit hours completed in that term. In addition, a graduating student who achieves a Degree Grade Point Average (DGPA) of 3.5 or higher in their final academic evaluation will graduate on the Dean's Honour List and receive a notation indicating this on their final term transcript.

Awards

A number of scholarships, bursaries and other academic awards are available to Engineering students. For information concerning awards (prizes, scholarships, and bursaries), please visit the Faculty website, umanitoba.ca/faculties/engineering/student_resources/sr_finances_under_gradawards.html

3.9 Minors in Engineering

In meeting the specific requirements for any minors available to Engineering students, no more than 50% of the credit hours required for a minor may be common with those forming part of a student's regular Engineering program. Normal pre-requisites and class size restriction apply to courses taken towards minors.

Arts Minor

A Minor in Arts is available to Engineering students. The minor consists of 18 credit hours of Arts courses, including a minimum of 6 credit hours in the Humanities and 6 credit hours in the Social Sciences; students must meet all pre-requisite requirements and all courses must be at the 1000 level or higher. *ARTS 1110 Introduction to University* may not be included in the minor. Depending on the approval of the Engineering department, courses used

for the minor may also be used to fulfill program requirements in Engineering.

Computer Science Minor

A Minor in Computer Science is available to Engineering students. The minimum requirement is 18 credit hours of computer science courses subject to the following constraints: (1) Courses COMP 1012, COMP 1020, and COMP 2140 are compulsory; (2) 9 additional credit hours of COMP courses at the 2000 or 3000 level; and (3) registration in computer science courses will be controlled by normal pre-requisites and class size restrictions.

Geological Sciences Minor

The Minor in Geological Sciences includes the following set of courses: (1) GEOL 1340; (2) One of the following three courses: GEOL 1400, GEOL 1410 or GEOL 1420; (3) Twelve (12) credit hours of 2000-level or above courses in Geological Sciences

Management Minor

The Minor in Management offered by the Faculty of Management is available to Engineering students. The minor consists of any 18 credit hours of Management courses; students must meet all prerequisite requirements. Depending on the approval of the Engineering department, courses used for the minor may also be used to fulfill program requirements in Engineering. Admission requirements for the minor are based on all courses transferred to Engineering or completed while in Engineering; the requirements are a minimum of 30 credit hours applied to their degrees with a minimum Degree Grade Point Average (DGPA) of 3.00. Up to 10 spaces are available each year for engineering students on a competitive basis. Applications can be made in the Engineering Dean's office by May 30th.

Note 1. Civil Engineering student only may use CIVL 2780 for credit towards the Management Minor in Engineering.

Note 2. Mechanical Engineering students only may use MECH 3170 for credit towards the Management Minor in Engineering.

Mathematics Minor

A Minor in Mathematics is available to Engineering students. The minimum requirement is 24 credit hours of mathematics courses subject to the following constraints: (1) the students must notify their home department that they are pursuing the minor; (2) up to 12 credit hours of mathematics courses in a student's engineering program may be counted toward the minor; (3) the student must complete at least 6 credit hours of courses from the mathematics department at the 3000 level or higher that are not included as part of the curriculum in the student's engineering program; and (4) approval of the Department of Mathematics is required for courses outside of the regular engineering program.

Music Minor

The Minor in Music requires 18 credit hours of MUSC courses and students are subject to the regulations set by the Marcel A. Desautels Faculty of Music. Please see SECTION 4.7 Music Minors for students in the Faculty of Engineering, Faculty of Arts and Faculty of Science under the Marcel A. Desautels Faculty of Music section.

Recreational Studies Minor

The Minor in Recreational Studies requires 18 credit hours of approved coursework. Students are subject to the regulations set by the Faculty of Kinesiology and Recreational Management. Please see SECTION 4.6 Minor

in Recreational Studies under Faculty of Kinesiology and Recreational Management.

3.10 Professional Registration

In order to practice engineering in any province or territory in Canada, it is necessary to be a member of the professional engineering association of that province or territory. The requirements for membership are acceptable academic preparation and a subsequent period of acceptable engineering experience gained under the supervision of a registered professional engineer. The undergraduate programs in Biosystems, Civil, Computer, Electrical, and Mechanical Engineering are accredited by the Canadian Engineering Accreditation Board (CEAB), reflecting acceptable academic preparation for membership in the association of professional engineers in any province or territory in Canada. Through a mutual recognition agreement, these programs are also recognized as satisfying accreditation requirements in many other countries such as the United States, the United Kingdom, Ireland, New Zealand, Australia, and Hong Kong.

Graduates of an accredited program are eligible to apply for membership as an engineering intern, in the association of professional engineers in their province of residence in Canada. After a period of acceptable experience, they are eligible to apply to the association for registration as a professional engineer in that province.

3.11 Requirements for the Bachelor's Degree

The requirement for a Bachelor of Science degree in Engineering is a grade of "C" or better in all courses in the student's program. All students are governed by the rules in effect at the time of their first registration in Engineering.

A student must complete at least 50 per cent of an engineering degree program as a full-time student in the Faculty of Engineering. Unless otherwise approved by the Dean of Engineering, students must complete all degree requirements within seven calendar years after being accepted into an Engineering departmental program.

3.11.1 Degree with Distinction

A student who on graduation achieves a Degree Grade Point Average (DGPA) of 3.80 or higher is awarded the degree "With Distinction."

3.11.2 Criteria for Medal Awards

The Faculty of Engineering Program Medal shall be awarded to the graduating student in each engineering program who has achieved the highest Degree Grade Point Average (DGPA) (minimum of 3.80) with no distinction as to full- or part-time status. The Program Medal will be awarded at spring convocation to the student who has completed that program in the past academic year (including October and February graduands).

The University Gold Medal for the Faculty of Engineering shall be awarded to the graduating student in the Faculty of Engineering who has achieved the highest Degree Grade Point Average (DPGA) (minimum of 3.80) for the entire program with no distinction as to full- or part-time status.

3.12 Student Progress and Academic Status

Students shall be evaluated at the conclusion of each academic term in which they receive a final grade in a minimum of 6 credit hours of course material (excluding Special Student credit hours), with the assessment being based on the resulting Term Grade Point Average (TGPA) in those courses. This assessment shall be based on only those courses which form part of the student's Engineering Program. The academic assessments are as follows:

Good Academic Standing

A student with a TGPA of 2.00 or higher is in Good Academic Standing. This will be notated as "Faculty Minimum Met" or "Satisfactory" on the student academic transcript.

Academic Warning

The first time the student's TGPA drops below 2.00, he/she will receive an *Academic Warning*. Students who receive such a warning are required to meet with an academic advisor from their department or, in the Preliminary Engineering Program, from the Dean's Office.

Academic Probation

The second time that a student's TGPA drops below 2.00, the student will be placed on *Academic Probation*.

Required to Withdraw

The third time that a student's TGPA drops below 2.00, the student will be *Required to Withdraw*. Students who receive such a suspension shall be ineligible to take courses offered by the Faculty of Engineering from the end of the term for which the suspension was issued through to the start of that same term in the subsequent academic year (normally, a period of 8 months.)

In order to be reinstated following the suspension period, the student must submit a written request for reinstatement to the Associate Dean (Undergraduate Programs). Applications must be received between 30-60 days in advance of the effective date of reinstatement; requests made earlier than 60 days in advance will not be accepted.

Ineligible to Proceed in Engineering

A student shall be *Ineligible to Proceed in Engineering* under either of the following conditions:

- The student's TGPA drops below 2.00 for a fourth time, or;
- The ratio of credit hours passed (from all courses with a grade of "C" or better that are applicable to the student's Engineering program) to total credit hours attempted for that student drops below 75%, and the student has attempted a minimum of 72 credit hours.

Starting Afresh

Students who have become Ineligible to Proceed in Engineering may apply to the Dean for permission to start their degree afresh, should they wish to return to the Faculty of Engineering.

At the discretion of the Dean, a student may start afresh in an engineering program after a minimum period of two years from their last academic assessment by the Faculty of Engineering, and may request to transfer up to 40 credit hours in which a minimum grade of "C+" was achieved. All previous courses will remain on the student's academic transcript, but will not be applied to their new program.

3.13 Limit on Time in the Preliminary Engineering Program

Students admitted to the Preliminary Engineering Program shall have two years to complete the minimum course requirements and submit an application for possible acceptance into an Engineering program. In the case of students admitted to the program through the Engineering Access Program the limit shall be three years.

Students who fail to meet this criterion shall be required to withdraw from Engineering. Such students may subsequently apply to an engineering

program after successfully completing all courses forming the Preliminary Engineering Program.

3.14 Students Applying to an Engineering Program

Students will be accepted into department programs based on the following criteria. Students who have completed 8-12 Preliminary Engineering Program courses by May 1st of each academic year will be ranked and admitted on a competitive basis based on the average of the best eight marks in courses in the Preliminary Engineering Program.

Students applying from programs, faculties, colleges, or other institutions will have all courses or equivalent courses that are required in a particular engineering program transferred in, including failed grades ("D's" and "F's") in those courses. In addition, if the total number of credit hours attempted by the student in all courses that apply in the Faculty of Engineering meets or exceeds 72, then the ratio of those credit hours passed (from all courses with a grade of "C" or better that are applicable to the student's potential Engineering program) to total credit hours attempted must be greater than or equal to 75%. Furthermore, if the student has attempted less than 72 credit hours, the total number of failed credit hours (from all courses with a grade of "D" or "F" that are applicable to the student's potential Engineering program) must not exceed 18 credit hours in order to be eligible to be considered for admission. Students are advised to consult with the Engineering Undergraduate Student Affairs Office if there is concern as to their standing under this rule.

Direct entry engineering students must submit an application for admission through umanitoba.ca/applynow indicating their program(s) of choice. The application fee for direct entry engineering students applying to an engineering program is waived. Students from University 1 and other faculties must apply for admission through umanitoba.ca/applynow and will be subject to an application fee.

3.15 Use of Calculating Devices

For courses offered by the Faculty of Engineering in which the use of devices capable of calculations is permitted in tests or examinations, such devices must be incapable of receiving and/or transmitting signals. Instructors wishing to restrict devices to certain capabilities must inform students, in writing, within the first week of term. Questions concerning the suitability of any given device should be directed to the course instructor(s).

3.16 Withdrawal from Courses

The responsibility for initiating withdrawals rests solely with the student, and no voluntary withdrawals are permitted after the deadlines for voluntary withdrawal without academic penalty (see the chapter, General Academic Regulations and Requirements, of this Calendar). For documented medical or compassionate reasons, Authorized Withdrawals may be permitted by the Dean's Office, Faculty of Engineering.

A student who, after registering for courses, in any term, becomes ineligible to proceed in Engineering will be withdrawn from his or her courses for the effective term as well as any subsequent terms, including Summer Session.

SECTION 4: Program Requirements

4.1 Engineering Access Program

Campus Address: E2 -442 EITC
 Email address: engap@cc.umanitoba.ca
 Telephone: 1 204 474 9872
 Toll free Phone No. 1 204 432 1960 ext 9872
 Fax No. 1 204 474 7518.
 Web Site www.engap.com

The Engineering Access Program (ENGAP) recognizes that students of First Nation, Metis, and Inuit ancestry may be challenged with geographic and economic barriers, and/or lack of access to academic preparation, which may make them unable to meet the faculty's admission requirements. ENGAP serves as a specifically designed post-secondary program that provides an opportunity for students to complete their Bachelor of Science degree in Engineering. The program accomplishes this objective by offering upgrading courses in mathematics, chemistry, physics, and computer science, as well as providing academic advice, personal and family counselling along with financial supports. First Nation, Metis, and Inuit students who do not meet the regular entrance requirements may still wish to join the program to benefit from these supports.

4.2 Preliminary Engineering Program

Campus Address/General Office: E1-284 EITC

Email Address: eng_info@umanitoba.ca

Telephone: (204) 474 9807

Website: umanitoba/faculties/engineering

The Preliminary Engineering Program is common to all programs in engineering. Students in the direct entry engineering program or University 1 must complete a minimum of 8 courses to be eligible to apply to one of the five degree granting engineering programs. A student must complete the following list of 12 courses in order to graduate with a BSc degree from any of the engineering programs.

Prior to the 2016/2017 academic year, students were required to complete ENGL 1400 (or equivalent) to satisfy the written English course requirement within all engineering programs. Beginning with the 2016/2017 academic year these requirements may now be satisfied by completing any course selected from the list of Written English Courses for Engineering Students (which includes ENGL 1400). This change applies to all students entering the Faculty of Engineering, as well as all continuing students who have yet to complete this program requirement.

| Course No. | | Credit Hours |
|------------|--|--------------|
| CHEM 1300 | Structure and Modelling in Chemistry | 3 |
| COMP 1012 | Computer Programming for Scientists and Engineers | 3 |
| ENG 1430 | Design in Engineering | 3 |
| ENG 1440 | Introduction to Statics | 3 |
| ENG 1450 | Introduction to Electrical and Computer Engineering | 3 |
| ENG 1460 | Introduction to Thermal Sciences | 3 |
| MATH 1210 | Techniques of Classical and Linear Algebra (Note 1) | 3 |
| MATH 1510 | Applied Calculus 1 or equivalent (Note 1, 2, 3, and 5) | 3 |
| MATH 1710 | Applied Calculus 2 or equivalent (Note 2, 3, and 5) | 3 |
| PHIL 1290 | Critical Thinking (Note 6) | 3 |
| PHYS 1050 | Physics 1: Mechanics | 3 |
| | Written English Course (Notes 7 and 8) | 3 |

Notes:

(1) MATH 1300 is not an acceptable equivalent to MATH 1210

(2) Students intending to obtain a degree in Engineering are strongly advised to complete MATH 1510 and MATH 1710; however, the substitutions described below are allowed.

(3) MATH 1500 or MATH 1230 may be taken in lieu of MATH 1510

(4) MATH 1700 or MATH 1690 may be taken in lieu of MATH 1710.

(5) The former MATH 1690 may be regarded as fulfilling the requirement for MATH 1510 and MATH 1710.

(6) PHIL 1290 Critical Thinking is the recommended complementary studies elective. Students may; however, select any course from the Faculties of Arts or Management at the 1000 level or above, to be used for credit in lieu of PHIL 1290. The exception is ARTS 1110 Introduction to University, which may not be held for credit within the Faculty of Engineering.

(7) Course selected from the list of approved Written English Course for Engineering Students

(8) Three credit hours are required to satisfy the written English course requirement. Should a student complete a six credit hour course, the additional three credit hours may be used to satisfy general complementary studies requirements within a student's program.

4.2.1 University Written English and Mathematics Requirements

All students are required to complete the university written English and mathematics requirement within the first 60 credit hours of their program. This requirement is described in the chapter General Academic Regulations and Requirements of this *Calendar*. In the Engineering programs the mathematics requirement is satisfied by one of MATH 1510 or MATH 1710 (or an equivalent); the written English requirement is satisfied by completing a course selected from the following list of approved *Written English Courses for Engineering Students*:

Note that courses transferred from other institutions are evaluated for content, but are not assessed for the written English requirement unless the student explicitly requests such an assessment. Therefore, students wishing to transfer a course from another institution which may be considered equivalent to a course on the list of Written English Courses for Engineering Students should request that the transfer be assessed as meeting the written English requirement. If the assessed course is found not to meet the requirement, the student will be compelled to complete another course from the list.

| Course No. | | Credit Hours |
|------------|--|--------------|
| ASIA 1420 | Asian Civilization to 1500 | 3 |
| ASIA 1430 | Asian Civilization from 1500 | 3 |
| CATH 1190 | Introduction to Catholic Studies | 3 |
| ENGL 1200 | Representative Literary Works | 6 |
| ENGL 1300 | Literature Since 1900 | 6 |
| ENGL 1340 | Introduction to Literary Analysis | 3 |
| ENGL 1400 | Thematic Approaches to the Study of Literature | 3 |
| GPE 2700 | Perspectives on Global Political Economy | 3 |

| | | |
|-------------|---|--------|
| GRMN 1300 | Masterpieces of German Literature in English Translation | 3 |
| GRMN 1310 | Love in German Culture in English Translation | 3 |
| HIST 1XXX* | Any 1000 level HIST course | 3 or 6 |
| HIST 2XXX* | Any 2000 level HIST course | 3 or 6 |
| NATV 2020 | The Métis in Canada | 3 |
| POL 1900 | Love, Heroes and Patriotism in Contemporary Poland | 3 |
| POL 2600 | Polish Culture until 1918 | 3 |
| POL 2610 | Polish Culture 1918 to the present | 3 |
| POLS 1502** | Introduction to Political Studies | 3 |
| POLS 1506** | Survey of Political Studies | 3 |
| POLS 2302 | Introduction to Political Theory | 3 |
| POLS 2502 | Introduction to World Affairs | 3 |
| POLS 2504 | Introduction to International Relations | 3 |
| POLS 2602 | Introduction to Comparative Politics | 3 |
| POLS 2702 | Introduction to Canadian Politics | 3 |
| POLS 2802 | Introduction to Indigenous Politics | 3 |
| RLGN 1322 | Introduction to Eastern Religions | 3 |
| RLGN 1324 | Introduction to Western Religions | 3 |
| RLGN 1424 | Religion and Sexuality | 3 |
| RLGN 1440 | Evil in World Religions | 3 |
| RLGN 2036 | Introduction to Christianity | 3 |
| RLGN 2140 | Introduction to Judaism | 3 |
| RLGN 2160 | Hebrew Bible (Tanakh/"Old Testament") | 3 |
| RLGN 2170 | Introduction to the New Testament | 3 |
| RLGN 2222 | The Supernatural in Popular Culture | 3 |
| RLGN 2590 | Religion and Social Issues | 3 |
| RUSN 1400 | Masterpieces of Russian Literature in English Translation | 3 |

| | | |
|---|---|---|
| RUSN 2280 | Russian Culture until 1900 | 3 |
| RUSN 2290 | Russian Culture from 1900 to the present | 3 |
| RUSN 2310 | Exploring Russia Through Film | 3 |
| UKRN 2200 | Ukrainian Myths, Rites and Rituals | 3 |
| UKRN 2410 | Ukrainian Canadian Cultural Experience | 3 |
| UKRN 2590 | Ukrainian Literature and Film | 3 |
| UKRN 2770 | Ukrainian Culture until 1900 | 3 |
| UKRN 2780 | Ukrainian Culture from 1900 to the present | 3 |
| UKRN 2820 | Holodomor and Holocaust in Ukrainian Literature and Culture | 3 |
| WOMN 1500 | Introduction to Women's and Gender Studies in the Humanities | 3 |
| WOMN 1600 | Introduction to Women's and Gender Studies in the Social Sciences | 3 |
| WOMN 2560 | Women, Science and Technology | 3 |
| * Unallocated credits may not be used. | | |
| ** This course requires a laboratory. | | |

4.3 Common Courses Taught by the Faculty of Engineering-ENG 1000 Level

ENG 1420 Engineering Processes for Non-Engineering Students

Cr. Hrs. 3

Develops a basic understanding of the engineering profession with emphasis on basic technical principles, Systems Engineering, and Project Management. Special emphasis will be placed upon the interface between management and engineering and the role management plays in the conduct of technical projects and manufacturing. NOTE: This course is not available for credit to students registered in the Faculty of Engineering.

ENG 1430 Design in Engineering

Cr. Hrs. 3

The creative process; the design process; working in a team. The engineering profession from the perspective of students and professionals. Academic, legal and ethical considerations. Prerequisites: [A minimum grade of 60% in Pre-Calculus Mathematics 40S (or a minimum grade of "C" in one of MATH 0401, MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, MATH 1690, MSKL 0100, or the former MATH 1680)] and [a minimum grade of 60% in Physics 40S (or a passing grade in PHYS 0900 or PSKL 0100; or a minimum grade of "C" in PHYS 1050 or PHYS 1051)] and [a minimum grade of 60% in Chemistry 40S (or a passing grade in CHEM 0900 or CSKL 0100; or a minimum grade of "C" in CHEM 1300 or CHEM 1301)] or their equivalents.

ENG 1440 Introduction to Statics

Cr. Hrs. 3

Statics of particles; rigid bodies, equilibrium of rigid bodies; analysis of structures; distributed forces. Not to be held with ENG 1441. Prerequisites: [A minimum grade of 60% in Pre-Calculus Mathematics 40S (or a minimum grade of "C" in one of MATH 0401, MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, MATH 1690, MSKL 0100, or the former MATH 1680)] and [a minimum grade of 60% in Physics 40S (or a passing grade in PHYS 0900 or PSKL 0100; or a minimum grade of "C" in PHYS 1050 or PHYS

1051]) and [a minimum grade of 60% in Chemistry 40S (or a passing grade in CHEM 0900 or CSKL 0100; or a minimum grade of "C" in CHEM 1300 or CHEM 1301)] or their equivalents.

ENG 1450 Introduction to Electrical and Computer Engineering **Cr. Hrs. 3**

Part I: Current, voltage, energy, potential, power Ohm's law; independent sources; capacitor, inductor, ideal diode, op-amp; Kirchoff's law; simple circuits (Resistive, RC, RL, OP-Amp; Diode); introduction to ac theory (Sinusoidal waveform, phase relations of voltage and current waveforms for R,L,C. RL and RC circuits). Part II: Applications (Digital Logic, motors). Prerequisites: [A minimum grade of 60% in Pre-Calculus Mathematics 40S (or a minimum grade of "C" in one of MATH 0401, MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, MATH 1690, MSKL 0100, or the former MATH 1680)] and [a minimum grade of 60% in Physics 40S (or a passing grade in PHYS 0900 or PSKL 0100; or a minimum grade of "C" in PHYS 1050 or PHYS 1051)] and [a minimum grade of 60% in Chemistry 40S (or a passing grade in CHEM 0900 or CSKL 0100; or a minimum grade of "C" in CHEM 1300 or CHEM 1301)] or their equivalents.

ENG 1460 Introduction to Thermal Sciences **Cr. Hrs. 3**

Properties of pure substances; first law for closed systems; first law for open systems; second law; examples of power cycles and refrigeration cycles. Prerequisites: [A minimum grade of 60% in Pre-Calculus Mathematics 40S (or a minimum grade of "C" in one of MATH 0401, MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, MATH 1690, MSKL 0100, or the former MATH 1680)] and [a minimum grade of 60% in Physics 40S (or a passing grade in PHYS 0900 or PSKL 0100; or a minimum grade of "C" in PHYS 1050 or PHYS 1051)] and [a minimum grade of 60% in Chemistry 40S (or a passing grade in CHEM 0900 or CSKL 0100; or a minimum grade of "C" in CHEM 1300 or CHEM 1301)] or their equivalents.

ENG 1900 Occupational Health and Safety Awareness **Cr. Hrs. 3**

Occupational health and safety will be discussed from the perspectives of various professions to understand 1) the issues relevant to individual professions and 2) how these individual perspectives may conflict. The overall goal for the course is to ensure that the student gains an appreciation for the importance of occupational health and safety to society.

4.3 Common Courses Taught by the Faculty of Engineering- 2000 + Level

ENG 2022 Engineering CAD Technology for Biosystems **Cr. Hrs. 3**

(Lab required) Instruction in the use of current CAD technology for conveying design through the use of graphics. Students will gain knowledge in technical drawing, 3D modelling techniques, production technology, and visual communication. Registration restricted to students in Engineering. Prerequisite: BIOE 2900 or the former BIOE 2580.

ENG 2030 Engineering Communication: Strategies for the Profession **Cr. Hrs. 3**

Students work in a team-based environment to produce deliverables comparable to the engineering workplace. In-class tutorials focus on the sharpening of individual students' writing skills through an analytical, problem-solving and critical thinking approach. Students are exposed to a variety of communicative scenarios and emphasis is placed on development of a repertoire of skills necessary for effective communication in the engineering profession. Not to be held with the former ENG 2010. Prerequisites: ENG 1430 and one of the courses from the list of Written English Courses for Engineering Students.

ENG 2040 Engineering Communication: Strategies, Practice and Design **Cr. Hrs. 3**

This team-based course focuses on a rhetorical approach, communication strategies and guided practice in the design of engineering communications. May not be held with the former ENG 2010. Prerequisites: ENG 1430 and one of the courses from the list of Written English Courses for Engineering Students.

ENG 3000 Engineering Economics **Cr. Hrs. 3**

An introduction to the economic aspects of engineering design. Time value of money and discounted cash flow calculations. Comparing costs of alternative designs. Replacement analysis and life-cycle costing. Public sector engineering economy studies. Before and after tax analyses. Applications in cost-estimating and asset management systems. Basic accounting. Accommodating capital limitations. Dealing with inflation. Risk management and uncertainty. Restricted to students registered in the Faculty of Engineering. May not be held with CIVL 4050.

ENG 3020 Technology, Society and the Future **Cr. Hrs. 3**

Impact of technology and technological change on society-past, present, future; specific technologies, e.g. construction. machine power, computers, communications, medical, military; the process of technological change; invisible effects of technology; technology and resource use; sustainable development, limits to growth and the role of technology. May not be held with CIVL 4460 or ANTH 2430. Prerequisites: A grade of "C" or better in one of the courses from the list of Written English Courses for Engineering Students, or the former ENGL 1310.

ENG 4010 Practicing Professional Engineering in Manitoba **Cr. Hrs. 3**

An introduction to the practice of professional engineering in Manitoba, including culture, professional organization and regulation, employability aspects, engineering ethics and law. Prerequisite: Must be enrolled in the Internationally-Educated Engineers Qualification Program (IEEQ).

ENG 4012 IEEQ CO-OP ASSIGNMENT **Cr. Hrs. 3**

Professional work assignment in business, industry, or government for cooperative education students in the IEEQ Program. Requires submission of a written report covering the work completed during a minimum 16-week work period. (Pass/Fail grade only). Prerequisite: enrolled in IEEQ Program with 80% of courses complete, including ENG 4010; good academic standing.

ENG 4020 Professional Engineering Practice in Manitoba **Cr. Hrs. 3**

An introduction to the practice of professional engineering in Manitoba. Professional culture, organization and regulation; industry topics; engineering ethics and law. Emphasis on professional communication development. Restricted to students enrolled in the IEEQ Program. May not be held with ENG 4010.

ENG 4100 Contemporary Topics in Engineering Practice **Cr. Hrs. 3**

This course will cover contemporary topics relating to the practice of professional engineering. The specific topics and a detailed outline will be available prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Permission of the Centre for Engineering Professional Practice and Engineering Education. As the course content will vary from year to year, students may take this course more than once for credit.

ENG 4110 Operational Excellence **Cr. Hrs. 3**

(Lab required) Methodical application of operational excellence and engineering principles and theory to address real industry problems, with emphasis on the data and fact-based engineering method of problem solving. Grounded in the Plan-Do-Study-Act system. Covers the seven step problem solving method (problem definition, examine the current situation, root cause analysis, action planning and testing, study the results, standardize the changes, and draw conclusions), applied concepts (Lean Six

Sigma Management) and the fundamentals of teamwork, team dynamics and change management. It is expected that students will be challenged in terms of their understanding of the method, concepts, analytics, and the tools, and their application to solving 'real' operational problems. Students must attend both lecture and tutorial. Students will be required to attend meetings at industrial partner facilities. May not be held with MECH 4342 where the topic is Operational Excellence. Pre- or Co-requisites: STAT 2220 or (STAT 1000 and STAT 2000).

ENG 4800 Co-operative Work 1 **Cr. Hrs. 1**

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830, ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative stream. Not to be held with BIOE 2000, CIVL 2900, ECE 4720, MECH 2050 or ENG 4012. This course is graded on a pass/fail basis.

ENG 4810 Co-operative Work 2 **Cr. Hrs. 1**

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830 and ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative education stream. Not to be held with: BIOE 3000, CIVL 3910, ECE 4720, or MECH 3050. This course is graded on a pass/fail basis.

ENG 4820 Co-operative Work 3 **Cr. Hrs. 1**

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830 and ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative education stream. Not to be held with: BIOE 4000, CIVL 4920, ECE 4720, or MECH 4050. This course is graded on a pass/fail basis.

ENG 4830 Co-operative Work 4 **Cr. Hrs. 1**

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830, ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative education stream. Not to be held with: CIVL 4930, ECE 4720, or MECH 4060. This course is graded on a pass/fail basis.

ENG 4840 Co-operative Work 5 **Cr. Hrs. 1**

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830 and ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative education stream. Not to be held with: CIVL 4940. This course is graded on a pass/fail basis.

4.4 Biosystems Engineering

Head: Dr. D.Mann, P.Eng.

Associate Head: Dr. N.Cicek, P.Eng
Campus Address/General Office: E2-376 EITC
Telephone: 204 474 6033
Fax: 204 474 7512

Website: umanitoba.ca/faculties/engineering/departments/biosystems

Academic Staff:

For a complete listing of academic staff, please refer to the following website:

<http://umanitoba.ca/faculties/engineering/departments/biosystems/facstaff/acadstatic.html>

The Department of Biosystems Engineering offers an accredited degree program in Biosystems Engineering. Biosystems Engineering emphasizes the application of engineering principles to biologically-based systems (plants, animals, humans, and microorganisms). The program is designed to give students knowledge of the fundamental principles of engineering and to introduce biological concepts to enable these engineers to successfully interact with relevant professionals when solving engineering problems involving biological systems. The program is offered in both a traditional and a co-operative education format. The department offers three Specializations (Biomedical, Bioresource and Environmental) and one Minor (Agribusiness). A bachelor's degree in Biosystems Engineering meets the requirements for admission to the Faculty of Medicine.

The undergraduate curriculum in Biosystems Engineering is an academic program in the Faculty of Engineering. Students wishing to study in Biosystems Engineering must be admitted to the Faculty of Engineering. They are required to complete the Preliminary Engineering Program as a prerequisite to the courses in Biosystems Engineering.

4.4.1 Biosystems Engineering Degree Program

Preliminary Engineering Program

Common to all engineering programs (see Section 4.2 for details).

Program Core Courses

Note: Students are encouraged to consult the department for eight- and ten-term program models. Students are strongly encouraged to follow the model programs when possible, as timetabling and course offerings are based on these program models.

| Course No. | | Credit Hours |
|------------|--|--------------|
| BIOE 2110 | Transport Phenomenon | 3 |
| BIOE 2480 | Impact of Engineering on the Environment | 3 |
| BIOE 2590 | Biology for Engineers | 3 |
| BIOE 2790 | Fluid Mechanics | 4 |
| BIOE 2800 | Solid Mechanics | 4 |
| BIOE 2900 | Biosystems Engineering Design 1 | 4 |
| BIOE 3270 | Instrumentation and Measurement for Biosystems | 4 |
| BIOE 3320 | Engineering Properties of Biological Materials | 4 |
| BIOE 3400 | Design of Structural Components in Machines | 4 |
| BIOE 3590 | Mechanics of Materials in Biosystems | 4 |
| BIOE 3900 | Biosystems Engineering Design 2 | 4 |
| BIOE 4240 | Graduation Project | 3 |
| BIOE 4900 | Biosystems Engineering Design 3 | 4 |
| BIOE 4950 | Biosystems Engineering Design 4 | 4 |
| CHEM 1310 | University Chemistry 1 | 3 |

| | | |
|--|--|-------------------|
| ENG 2022 | Engineering CAD Technologies for Biosystems | 3 |
| ENG 3000 | Engineering Economics | 3 |
| MATH 2130 | Engineering Mathematical Analysis 1 | 3 |
| MATH 2132 | Engineering Mathematical Analysis 2 | 3 |
| MBIO 1220 or MBIO 1010 | Essentials of Microbiology | 3 |
| | Microbiology 1 | 3 |
| MECH 2150 | Mechanical Engineering Modelling and Numerical Methods | 4 |
| MECH 3482 | Kinematics and Dynamics | 4 |
| STAT 2220 | Contemporary Statistics for Engineers | 3 |
| BIOL 1410 or SOIL 4060 | Anatomy of the Human Body | 3 |
| | Physical Properties of Soil | 3 |
| BIOL 1412 or BIOE 2600 | Physiology of the Human Body | 3 |
| | Plant and Animal Physiology for Engineers | 4 |
| One course in Technology and Society (ENG 3020 or ANTH 2430) | | 3 |
| Two Complementary Studies Electives | | 6 |
| Three Biosystems Engineering Design Electives (see list below) | | 12 |
| Two Free Electives | | 6-8 |
| Total credit hours for graduation | | 150 to 153 |

Please note the combination of BIOL 1020 (Biology 1: Principles and Themes) and BIOL 1030 (Biology 2: Biological Diversity, Function and Interactions) can be used in place of BIOE 2590 (Biology for Engineers).

4.4.2 Biosystems Engineering Design Electives

| Course No. | | Credit Hours |
|------------|--|--------------|
| BIOE 4390 | Unit Operations 1 | 4 |
| BIOE 4412 | Design of Light-Frame Building Systems | 4 |
| BIOE 4414 | Imaging and Spectroscopy for Biosystems | 4 |
| BIOE 4420 | Crop Preservation | 4 |
| BIOE 4440 | Bioprocessing for Biorefining | 4 |
| BIOE 4460 | Air Pollution Assessment and Management | 4 |
| BIOE 4560 | Structural Design in Wood | 4 |
| BIOE 4590 | Management of By-Products from Animal Production | 4 |
| BIOE 4600 | Design of Water Management Systems | 4 |
| BIOE 4610 | Design of Assistive Technology Devices | 4 |
| BIOE 4620 | Remediation Engineering | 4 |
| BIOE 4640 | Bioengineering Applications in Medicine | 4 |
| BIOE 4700 | Alternative Building Design | 4 |

Design elective courses offered vary from year to year. Courses offered in the current year are listed on the online timetables on the department website.

4.4.3 Complementary Studies Electives

Complementary studies electives are required to give the engineering student exposure to topics outside the fields of science and engineering. Many university courses fulfill the complementary studies requirement:

- Any course at the 1000-level or above from the faculties of Arts or Management;
- Any course at the 1000-level or above from the Department of Agribusiness and Agricultural Economics;
- Any course listed in Group C of our 3 specializations

ARTS 1100 Introduction to University may not be used for credit in the Faculty of Engineering. Other university courses, which do not cover topics of science or engineering, may also be acceptable. Please consult with the department head (or his/her designate) for approval of such courses. If you are planning to complete a specialization, please take note that there are specific courses to be used as complementary studies electives.

Free Electives

Any university course at the 1000-level or above can be used as a free elective. However, ARTS 1100 Introduction to University may not be used for credit in the Faculty of Engineering. Students are permitted to take additional design electives or engineering courses from other departments to fulfill free elective requirements. If you are planning to complete a specialization, please take note that there are specific courses to be used as free electives.

4.4.4 Specializations in Biosystems Engineering

Specializations in Biosystems Engineering

Students wishing to pursue more focused studies in a Biosystems Engineering subject area have the choice of completing one of three specializations: 1) Biomedical, 2) Bioresource, or 3) Environmental. To complete a specialization, you will be required to complete two science electives (identified as Group A), three Biosystems Engineering design electives (identified as Group B), two complementary studies electives (identified as Group C), and two free electives (selected from Groups B, C or D). The similarly-themed courses that have been identified for each specialization take the place of two science electives, three Biosystems Engineering design electives, two complementary studies electives, and two free electives in the general Biosystems Engineering program (i.e., completing a specialization does not require any additional coursework).

Biomedical Specialization

The biomedical specialization provides engineers with knowledge of human anatomy and physiology to enhance the understanding of the role to be played by engineers in specific areas within biomedical engineering such as rehabilitation engineering, clinical engineering, medical imaging, and orthopaedics.

Students who obtain a grade of "C" or better in the courses listed below will receive a notation of "Biomedical Specialization" on their transcript at the time of graduation.

Group A: Science Electives (choose both courses)

BIOL 1410 Human Anatomy

BIOL 1412 Physiology of the Human Body

Group B: Biosystems Engineering Design Electives (choose 3 from the list)

BIOE 4414 Imaging and Spectroscopy for Biosystems

BIOE 4610 Design of Assistive Technology Devices

BIOE 4640 Bioengineering Applications in Medicine

Group C: Complementary Studies Electives (choose 2 from the list)

ENG 1900 Occupational Health and Safety Awareness

ENVR 3400 Introduction to Environment and Health

HIST 4660 History of Health and Disease (6) (counts as 2)

HIST 4680 Social History of Health and Disease in Modern Canada (6)
(counts as 2)

HNSC 1210 Nutrition for Health and Changing Lifestyles

NATV 3240 Indigenous Medicine and Health

PERS 1200 Physical Activity, Health and Wellness

PHIL 2740 Ethics and Biomedicine (or PHIL 2741 Éthique et biomédecine)

Group D: Free Electives (choose 2 from the list)

(Note: additional courses from Group C can be used to fulfill Group D electives.)

BIOE 4650 Textiles in Healthcare and Medical Applications

BIOL 2410 Human Physiology 1

BIOL 2420 Human Physiology 2

BIOL 4470 Sensory-Motor Physiology

CHEM 2210 Introductory Organic Chemistry 1

CHEM 2360 Biochemistry 1

CHEM 2370 Biochemistry 2

ECE 4610 Biomedical Instrumentation and Signal Processing

KIN 2330 Biomechanics

KIN 4330 Advanced Biomechanics

MECH 4322 Design of Biomechanical Devices

MECH 4360 Biomaterials for Medical Applications

PHYS 3220 Medical Physics and Physiological Measurement

PHYS 4400 Medical Imaging

Note: Special permission may be granted by the Head of Department for courses not appearing on the list for Group C or Group D.

Bioresource Specialization

Challenges remain in the production of food and renewable resources for a world of ever-increasing population. The bioresource specialization provides the educational background to enable engineers to devise strategies and technologies for producing food, fibre, bio-based products, and renewable energy efficiently and sustainably.

Students who obtain a grade of "C" or better in the courses listed below will receive a notation of "Bioresource Specialization" on their transcript at the time of graduation.

Group A: Science Electives (choose both courses)

BIOE 2600 Plant and Animal Physiology for Engineers

SOIL 4060 Physical Properties of Soil

Group B: Biosystems Engineering Design Electives (choose 3 from the list)

BIOE 4390 Unit Operations 1

BIOE 4412 Design of Light-Frame Building Systems

BIOE 4420 Crop Preservation

BIOE 4440 Bioprocessing for Biorefining

BIOE 4590 Management of By-Products from Animal Production

BIOE 4600 Design of Water Management Systems

Group C: Complementary Studies Electives (choose 2 from the list)

ABIZ 1000 Introduction to Agribusiness Management

ABIZ 1010 Economics of World Food Issues and Policies

ABIZ 3530 Farm Management

FOOD 1000 Food Safety Today and Tomorrow

GEOG 2520 Geography of Natural Resources

Group D: Free Electives (choose 2 from the list)

(Note: additional courses from Group B or C can be used to fulfill Group D electives.)

AGRI 1500 Natural Resources and Primary Agricultural Production

AGRI 1510 Production, Distribution and Utilization of Agricultural Products

BIOE 2090 Machinery for Agricultural Production

BIOE 2222 Precision Agriculture Concepts and Applications

ENTM 3170 Crop Protection Entomology

FOOD 3010 Food Process 1

FOOD 4260 Water Management in Food Processing

PLNT 2500 Crop Production

PLNT 2510 Fundamentals of Horticulture

PLNT 3560 Organic Crop Production on the Prairies

SOIL 3520 Pesticides: Environment, Economics and Ethics

Note: Special permission may be granted by the Head of Department for courses not appearing on the list for Group C or Group D.

Environmental Specialization

There are numerous environmental issues faced by society. The environmental specialization provides engineers with the knowledge to predict environmental impacts due to human developments and to solve problems associated with the environment (soil contamination, pollution of rivers and lakes, air pollution, wastewater treatment).

Students who obtain a grade of "C" or better in the courses listed below will receive a notation of "Environmental Specialization" on their transcript at the time of graduation.

Group A: Science Electives (choose both courses)

BIOE 2600 Plant and Animal Physiology for Engineers

SOIL 4060 Physical Properties of Soil

Group B: Biosystems Engineering Design Electives (choose 3 from the list)

BIOE 4460 Air Pollution Assessment and Management

BIOE 4590 Management of By-Products from Animal Production

BIOE 4600 Design of Water Management Systems

BIOE 4620 Remediation Engineering

BIOE 4700 Alternative Building Design

Group C: Complementary Studies Electives (choose 2 from the list)

ABIZ 2390 Introduction to Environmental Economics (or equivalent)

ENVR 1000 Environmental Science 1 – Concepts

ENVR 2000 Environmental Science 2 - Issues

ENVR 2810 Environmental Critical Thinking and Scientific Research

ENVR 3160 Environmental Responsibilities and the Law

ENVR 3400 Introduction to Environment and Health

ENVR 3750 Green Building and Planning

ENVR 3850 Sustainable Manitoba

ENVR 4050 Ecosystem Management

ENVR 4400 Advanced Issues in Environment and Health

GEOG 2520 Geography of Natural Resources

PHIL 2750 Environmental Ethics

Group D: Free Electives (choose 2 from the list)**(Note:** additional courses from Group B or C can be used to fulfill Group D electives.)

AGEC 2370 Principles of Ecology (or equivalent)

CIVL 3690 Environmental Engineering Analysis

CIVL 3700 Environmental Engineering Design

CIVL 4350 Hazardous Waste Treatment

ENVR 2550 Environmental Chemistry

ENVR 3110 Environmental Conservation and Restoration

GEOG 3730 Geographic Information Systems

Note: Special permission may be granted by the Head of Department for courses not appearing on the list for Group C or Group D.**Agribusiness Minor**

A minor in agribusiness is available to Biosystems Engineering students. The minimum requirement is 18 credit hours consisting of ECON 1010 Introduction to Microeconomic Principles (3 credit hours), ECON 1020

Introduction to Macroeconomic Principles (3 credit hours), ABIZ 1000 Introduction to Agribusiness (3 credit hours), ABIZ 2510 Introduction to Agricultural and Food Marketing (3 credit hours), ABIZ 2520 Introduction to Management Sciences (3 credit hours) and at least three additional credit hours from the Department of Agribusiness and Agricultural Economics (students must meet all prerequisite requirements). A maximum of 3 courses (9 credit hours) of courses used for the minor may also be used to fulfill course requirements in Biosystems Engineering.

Admission to Medicine

The Bachelor of Science degree in Biosystems Engineering provides the background to meet eligibility requirements for admission into the Max Rady College of Medicine at the University of Manitoba. Students planning to apply for entrance to Medicine after completing the B.Sc. in Biosystems Engineering are advised to consult with the Max Rady College of Medicine for admission requirements.

Co-operative Education Program in Biosystems Engineering

Please refer to SECTION 5: Co-operative Education and Industrial Internship Programs

4.5 Biosystems Engineering Course Descriptions-2000 Level**BIOE 2090 Machinery for Agricultural Production Cr. Hrs. 4**

Farm machinery selection. Machine performance. Ownership and operating costs. Analysis of machine functions for safety and efficiency.

BIOE 2110 Transport Phenomena Cr. Hrs. 3

Principles of heat transfer, solar radiation, psychometrics, molecular diffusion, mass transfer and refrigeration and their application to biosystems. Prerequisite: ENG 1460.

BIOE 2222 Precision Agriculture Concepts and Applications Cr. Hrs. 4

Precision agriculture is a philosophy of agricultural management that has been enabled by modern technology. This course examines the technology and the techniques of precision agriculture including GPS, GIS, variable rate technologies, and yield monitoring that can be used to improve the efficiency of agricultural operations by decreasing costs, increasing profits, and decreasing hazards to the environment.

BIOE 2480 Impact of Engineering on the Environment Cr. Hrs. 3

Students will gain an understanding of overall sustainability of industrial activities, life-cycle and risk assessment techniques for sustainability, and design improvements to enhance environmental performance of engineered systems. This course will introduce basic methodologies for conducting environmental impact assessments, including physical, chemical, ecological, social and economic impacts. May not be held with the former BIOE 4480. Registration restricted to Biosystems Engineering students.

BIOE 2590 Biology for Engineers Cr. Hrs. 3

Provide theories and principles of Biology to engineering students and present applications of biological principles to engineering problems. Fundamental theories involved in cell structure and function, metabolism, genetics and heredity, bacteria and virus structure and function, plant and animal structure and function are covered. An introduction to animal and plant physiology is also provided. Laboratory sessions and term assignments focus on the engineering applications of these basic theories and principles to provide a good understanding of the role of Biology in Engineering. Prerequisite: CHEM 1300.

BIOE 2600 Plant and Animal Physiology for Engineers Cr. Hrs. 4

Plant and animal physiology as affected by environment for use in the design of agricultural machines, structures, and food processes for biological products; models of simulation of plant and animal growth. Prerequisite: BIOE 2590. May not be held with the former AGRI 2200.

BIOE 2790 Fluid Mechanics Cr. Hrs. 4

(Lab required) Definition of fluid; fluid properties; variation of pressure in a fluid; hydrostatic forces; buoyancy; kinematics of flow; control volumes; continuity; Bernoulli's equation; energy equation; flow in closed conduits; open channel flow. Prerequisites: ENG 1440 (or ENG 1441) and (MATH 1710 or MATH 1700 or MATH 1701). Not to be held with CIVL 2790.

BIOE 2800 Solid Mechanics Cr. Hrs. 4

(Lab required) Analysis of deformable bodies; stress and strain in three dimensions; equilibrium equations and strain-displacement relations; constitutive relations and mechanical behaviour of materials; radially symmetric and plane problems in elasticity; relevant experimental demonstrations. Prerequisites: ENG 1440 (or ENG 1441) and (MATH 1710 or MATH 1700 or MATH 1701). Not to be held with CIVL 2800.

BIOE 2900 Biosystems Engineering Design 1 Cr. Hrs. 4

An introduction to the professional discipline of Biosystems Engineering and the philosophy of systems thinking that is used by the Biosystems engineer. Students will be introduced to several principles (i.e., safety engineering, human factors engineering and biomimicry) that should be considered during the design process, and will be given opportunity to apply these principles to design problems. The course will provide opportunity for students to develop technical communication, project management and teamwork skills. May not be held with BIOE 2580. Prerequisite: ENG 1430.

4.5.1 Biosystems Engineering Course Descriptions-3000 Level**BIOE 3270 Instrumentation and Measurement for Biosystems Cr. Hrs. 4**

Basic instrumentation for measuring electrical and non-electrical quantities associated with biosystems engineering and industry; transducers for automatic control. Prerequisites: [MATH 2132 (or the former MATH 2110)] and ENG 1450.

BIOE 3320 Engineering Properties of Biological Materials Cr. Hrs. 4

(Lab required) Engineering properties of biological and interacting materials within the system. Relationship between composition, structure, and properties of plant, animal, and human tissues. Definition and measurement of mechanical, thermal, electromagnetic, chemical and biological properties and their variability. Use of these properties in engineering calculations. Prerequisites: [Math 2130 (or the former Math 2110)] and [BIOE 2800 or CIVL 2800 or MECH 2222 (or the former Mech 2220)].

BIOE 3400 Design of Structural Components in Machines Cr. Hrs. 4

(Lab required) Design of structural components in machines; designing for axial tension and compression, connections for axial loadings, pinned trusses, bending, torsion, and combined loads; designing for welded connections; use of fluid power to enable movement of structural components. Students will use the computer as a design tool. May not be held with the former BIOE 4530. Prerequisite: BIOE 2800 or CIVL 2800 or MECH 2222.

BIOE 3530 Engineering Fundamentals Cr. Hrs. 3

Principles of heat transfer, steam, psychometrics, fluid mechanics, material balances, electricity and refrigeration. Cannot be held for credit in the

Faculty of Engineering. Prerequisite: [MATH 1300 or equivalent] and [MATH 1500 or equivalent] or the former MATH 1680.

BIOE 3590 Mechanics of Materials in Biosystems Cr. Hrs. 4

(Lab required) In this course students will be exposed to both the theory and physical behaviour of materials when subjected to loads. The course will be delivered using a combination of lectures and hands-on labs. The materials presented include a wide range of materials biosystems engineers may be involved with, including plastics, bone, wood, concrete, steel, other biological materials and composites. Prerequisite: BIOE 2800 or CIVL 2800, or MECH 2222.

BIOE 3900 Biosystems Engineering Design 2 Cr. Hrs. 4

An introduction to the use of reverse engineering to deduce design features from previously-designed products or systems. Considerations such as design for sustainability and design for disassembly will be discussed. Students will have opportunity to use reverse engineering principles i) to understand how components fit together to form functional systems, ii) to identify flaws and iii) to propose design improvements. Students will learn appropriate techniques for documenting the reverse engineering process. Theory of project management will also be taught and discussed. Prerequisites: [BIOE 2900 or the former BIOE 2580] and ENG 2022 or the former ENG 2020].

4.5.2 Biosystems Engineering Course Descriptions-4000 Level**BIOE 4240 Graduation Project Cr. Hrs. 3**

Either an independent or a directed study including at least one of: a comprehensive literature review, an experimental research project, or an engineering design problem. The project is to be concluded by a formal report or thesis. Prerequisites: BIOE 3270 or approval of department.

BIOE 4390 Unit Operations 1 Cr. Hrs. 4

(Lab required) Equipment and systems used in handling, mixing, size reduction, separation and size enlargement of value-added food products. Prerequisites: BIOE 2790 or CIVL 2790 or MECH 2262. Pre- or Corequisites: BIOE 3320 and BIOE 3270.

BIOE 4412 Design of Light-Frame Building Systems Cr. Hrs. 4

(Lab required) Light-frame buildings as a structural and environmental system; structural loads in building systems; energy (heat), moisture and air contaminants in building systems; built-environment for building occupants. Hands-on labs of constructing small-scale structures for students to gain an understanding of building construction techniques. May not be held with CIVL 4024. Prerequisites: BIOE 2110. Pre- or Corequisite: BIOE 3590.

BIOE 4414 Imaging and Spectroscopy for Biosystems Cr. Hrs. 4

The purpose of this course is to familiarize senior Biosystems Engineering students with the fundamentals of imaging and spectroscopy for biosystems. Techniques of image acquisition, storage, processing, and pattern recognition will be taught. Various spectroscopy techniques and their applicability to biological materials will be discussed. Analysis of data using statistical, artificial neural networks and chemometric methods will be covered. Offered in alternate years. Prerequisite: BIOE 3270.

BIOE 4416 Topics in Biosystems Engineering Cr. Hrs. 3

This course will cover contemporary topics in Biosystems Engineering. The specific topics and a detailed outline will be available at the time of registration. Prerequisite: Permission of the department.

BIOE 4420 Crop Preservation Cr. Hrs. 4

Biological and physical deterioration during storage. Methods of preserving and storing cereals, oilseeds, and other agricultural crops. Prerequisite: BIOE 2110.

BIOE 4440 Bioprocessing for Biorefining Cr. Hrs. 4

This course will provide students with an understanding of the principles involved in the design of proper conditions for processing of biomaterials for production of high-quality biofuels and bioproducts. The content of this course is built on the principles of physics, transport phenomena, thermodynamics, reaction, kinetics, fermentation, and industrial unit operations. Prerequisite: BIOE 2110. Pre- or corequisite: BIOE 3320.

BIOE 4460 Air Pollution Assessment and Management Cr. Hrs. 4

(Lab required) Air pollutant sources and characteristics, their impact on the environment, their behaviour in the atmosphere. Methods of sampling and measurement and the basic technological alternatives available for separation/removal and control. Particular problems of regional interest are discussed. Pre- or Corequisites: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4500 Water Management Cr. Hrs. 3

Introduction to the design of irrigation and drainage systems. Topics in irrigation include sprinklers, laterals, mainline and pumps. Drainage topics cover both the surface and subsurface systems. Analysis of precipitation and runoff. Environmental impacts of water management. Offered alternate years.

BIOE 4520 Crop Preservation and Handling Cr. Hrs. 3

Interaction of biological and physical factors related to methods of preserving, storing, and handling cereals, oilseeds, and other agricultural crops. Offered alternate years.

BIOE 4560 Structural Design in Wood Cr. Hrs. 4

Design using wood as a structural material in light-frame buildings. Consideration of design constraints associated with sawn lumber as well as based composite materials. Emphasis on use of computer based design aids. Prerequisites: CIVL 3770 or BIOE 3590.

BIOE 4590 Management of By-Products from Animal Production Cr. Hrs. 4

(Lab required) Topics covered include solid and liquid manure, manure characteristics, manure collection, storage, land application and utilization, biological treatment, design of equipment and facilities for manure handling. Environment issues, such as odour and water pollution associated with manure management will also be discussed. Prerequisites: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4600 Design of Water Management Systems Cr. Hrs. 4

To introduce the basic theoretical principles in the design of irrigation and drainage systems. Topics covered include the determination of irrigation depth and interval, evapotranspiration, measurement and analysis of precipitation, design of sprinkler and drip irrigation systems, selection of pumps, surface and subsurface drainage design, water quality issues, salinity management, and the environmental impact of water management practices. Corequisite: SOIL 4060 or CIVL 3730 or consent of instructor.

BIOE 4610 Design of Assistive Technology Devices Cr. Hrs. 4

Application and design of technology for individuals with disabilities; emphasizing the development of the requisite knowledge, skills, and attitudes to evaluate, design, and implement client-centred assistive technology. A multi-disciplinary approach to learning and applying knowledge will be emphasized with engineering and medical rehabilitation students collaborating on a design project. Prerequisite: BIOL 1412 (or ZOOL 1330).

BIOE 4620 Remediation Engineering Cr. Hrs. 4

(Lab required) The theoretical basis for the engineering design of different remediation technologies to treat contaminated soil and groundwater will be introduced. Methods for site characterization, monitoring of progress in remediation, and modeling of the remediation process will be presented. Different methods such as soil washing, air sparging, bioremediation, phytoremediation, constructed wetlands, electrokinetic remediation, reactive barriers will be discussed. Prerequisite: BIOE 2790 or CIVL 2790 or MECH 2262 or the former MECH 2260.

BIOE 4640 Bioengineering Applications in Medicine Cr. Hrs. 4

This course surveys bioengineering applications and medicine from a clinical engineering perspective. Topics include: clinical engineering practice; device development legislation; biomedical sensors; biosensors; biomaterials and biocompatibility; as well as the principles of and design for medical imaging equipment. Prerequisites: BIOL 1410 (or ZOOL 1320) and BIOL 1412 (or ZOOL 1330) and BIOE 3320.

BIOE 4650 Textiles in Healthcare and Medical Applications Cr. Hrs. 4

This course provides students with an introduction to medical textiles and healthcare products used in current practices, as well as fundamentals for designing textile products and devices that improve the health and quality of life of human beings. The course includes both basic topics related to healthcare and medical textiles (i.e., materials and structures, nanofibers for medical uses, comfort and health problems with textiles, biocompatibility and biostability issues) and applications of textile products for healthcare and medical end uses (i.e., protective and hygiene textiles, external devices, tissue engineering and intelligent/smart textiles). May not be held with TXSC 3500 or TXSC 4500. Prerequisite: BIOE 2590. Pre- or Corequisite: BIOE 3320.

BIOE 4700 Alternative Building Design Cr. Hrs. 4

(Lab required) This course will provide students with experience in the design of structures that utilize natural and green building materials and techniques. Students will get hands-on lab experience with various natural building materials such as straw, straw light clay, cob and stackwall. May not be held with CIVL 4024. Pre- or Corequisites: BIOE 3590 or CIVL 3770.

BIOE 4900 Biosystems Engineering Design 3 Cr. Hrs. 4

An opportunity for the Biosystems Engineering student to practice fundamental engineering competencies (project management, technical communication) in the preparation of a preliminary design for the client. Students will be expected to demonstrate professionalism as a part of a design team. May not be held with BIOE 3580. Prerequisite: BIOE 3900.

BIOE 4950 Biosystems Engineering Design 4 Cr. Hrs. 4

An opportunity for the Biosystems Engineering student to validate a conceptual solution to an engineering problem through fabrication and testing of a prototype. Students will be expected to employ project management skills to ensure completion of both prototype and an engineering report for a client by the end of the semester. May not be held with BIOE 4580. Prerequisite: BIOE 4900.

4.6 Civil Engineering

Head: Dr. Dagmar Svecova, P.Eng
Associate Head: Dr. Shawn Clark, (Research)
Campus Address/General Office: E1-368 EITC
Email Address: civil_eng@umanitoba.ca
Telephone: 204 474 9220
Fax: 204 474 7513
Website: <http://umanitoba.ca/faculties/engineering/departments/civil/>
Academic Staff: Please refer to our website at: umanitoba.ca/faculties/engineering/departments/civil/facultystaff-academic.html

The Department of Civil Engineering offers a fully accredited degree program in Civil Engineering. Graduates of the Civil Engineering program are academically qualified to register as Engineers-in-Training in engineering licensing bodies in Canada. The Civil Engineering program is designed to give students a broad knowledge of engineering principles and professional practice. The program has a strong core component that provides exposure to a range of areas in Civil Engineering, including – but not limited to – the design of building and bridges, the design of facilities and methods for treatment of water, waste water and solid waste, the design of foundations and earthworks such as dams and river bank protection, transportation planning, the design of roads and pavement, the design of hydraulic structures such as sewers, canals, and spillways, and the management of surface and ground water. In the last years of the program, there are some opportunities for specialization through selection of technical elective courses. A cooperative education option allows students to include practical work experience in their program.

Civil Engineering Degree Program

Students are to consult with the department for four and five-year program plans. Students are expected to follow the program plans when possible, as timetabling and course offerings are based on these plans.

Environmental Engineering Option

An option in Environmental Engineering provides an opportunity for students to focus on environmental engineering related courses.

Student Support

Summer employment of a limited number of undergraduate students may be offered by the Department of Civil Engineering. Typical duties include assisting academic staff members with research projects.

Preliminary Engineering Program

Common to all Engineering Programs (see Section 4.2 for details.)

Civil Engineering Program and Environmental Engineering Option

Common Core Program

| Course No. | Credit Hours |
|------------|---------------------------------------|
| CHEM 1310 | Introduction to Physical Chemistry 3 |
| CIVL 2770 | Civil Engineering Materials 5 |
| CIVL 2780 | Civil Engineering Systems 4 |
| CIVL 2790 | Fluid Mechanics 4 |
| CIVL 2800 | Solid Mechanics 1 4 |
| CIVL 2830 | Graphics for Civil Engineers 2 |
| CIVL 2840 | Civil Engineering Geomatics 3 |
| CIVL 3590 | Numerical Methods for Engineers 4 |
| CIVL 3690 | Environmental Engineering Analysis 4 |
| CIVL 3700 | Environmental Engineering Design 4 |
| CIVL 3730 | Geotechnical Materials and Analysis 4 |
| CIVL 3740 | Hydraulics 4 |
| CIVL 3750 | Hydrology 4 |
| CIVL 3760 | Structural Analysis 4 |
| CIVL 3770 | Structural Design 1 4 |

| | | |
|-----------|--|---|
| CIVL 3790 | Transportation Engineering | 4 |
| CIVL 4220 | Geotechnical Design | 4 |
| CIVL 4380 | Infrastructure Engineering and Construction Management | 4 |
| CIVL 4390 | Structural Design 2 | 4 |
| CIVL 4400 | Transportation Engineering 2 | 4 |
| CIVL 4590 | Design Project | 6 |
| ENG 2030 | Engineering Communication: Strategies for the Profession | 3 |
| or | | |
| ENG 2040 | Engineering Communication: Strategies, Practice and Design | 3 |
| ENG 3000 | Engineering Economics | 3 |
| ENG 3020 | Technology, Society and the Future | 3 |
| GEOL 1340 | The Dynamic Earth | 3 |
| MATH 2130 | Engineering Mathematical Analysis | 3 |
| MATH 2132 | Engineering Mathematical Analysis 2 | 3 |
| STAT 2220 | Introduction to Probability and Statistics | 3 |

Civil Engineering:

Complementary Studies Elective (see Note 1) 3

Environmental Option:

PHIL 2750 Environmental Ethics 3 (see Note 1) 3

Civil Engineering Technical Electives: (5 courses) (see Notes 2 and 3)

A minimum of 3 courses must be taken from Group A and up to 2 from Group B, with no more than one course from outside the Department of Civil Engineering.

Group A (Select 3 to 5 courses)

| Course No. | Course Name | Credit Hours |
|------------|--|--------------|
| CIVL 3710 | Finite Element Analysis | 4 |
| CIVL 4020 | Masonry Design and Construction | 4 |
| CIVL 4022 | Properties and Design of Concrete Mixtures | 4 |
| CIVL 4024 | Sustainable Building Design (see Note 4) | 4 |
| CIVL 4030 | Structural Design 3 | 4 |
| CIVL 4040 | Structural Dynamics | 4 |
| CIVL 4100 | Engineering Management and the Environment | 4 |
| CIVL 4120 | Water Treatment Plant Design | 4 |
| CIVL 4130 | Solid Waste Management | 4 |
| CIVL 4180 | Environmental Systems | 4 |

| | | |
|-----------|-------------------------------------|---|
| CIVL 4200 | Groundwater Contamination | 4 |
| CIVL 4230 | Geotechnical Engineering | 4 |
| CIVL 4232 | Geotechnical Earthquake Engineering | 4 |
| CIVL 4250 | Groundwater Hydrology | 4 |
| CIVL 4300 | Design of Urban Water Systems | 4 |
| CIVL 4350 | Hazardous Waste Treatment | 4 |
| CIVL 4410 | Transportation Systems | 4 |
| CIVL 4420 | Highway Pavement Design | 4 |
| CIVL 4470 | Watershed Processes | 4 |

Group B (Up to 2 courses, only 1 from outside of Civil Engineering)

| Course No. | Course Name | Credit Hours |
|------------|--|--------------|
| BIOE 4560 | Structural Design in Wood | 4 |
| CIVL 4332 | Civil Engineering Thesis Project | 4 |
| CIVL 4500 | Contemporary Topics in Civil Engineering | 4 |

Environmental Option Technical Electives:

(5 courses) (see Notes 2 and 3)

A minimum of 3 courses must be taken from Group A and up to 2 from Group B, with no more than one course from outside the Department of Civil Engineering.

Group A (Select 3 to 5 courses)

| Course No. | Course Name | Credit Hours |
|------------|--|--------------|
| CIVL 3710 | Finite Element Analysis | 4 |
| CIVL 4100 | Engineering Management and the Environment | 4 |
| CIVL 4120 | Water Treatment Plant Design | 4 |
| CIVL 4130 | Solid Waste Management | 4 |
| CIVL 4180 | Environmental Systems | 4 |
| CIVL 4200 | Groundwater Contamination | 4 |
| CIVL 4250 | Groundwater Hydrology | 4 |
| CIVL 4300 | Design of Urban Water Systems | 4 |
| CIVL 4350 | Hazardous Waste Treatment | 4 |
| CIVL 4470 | Watershed Processes | 4 |

Group B (Up to 2 courses, only 1 from outside of Civil Engineering)

| Course No. | Course Name | Credit Hours |
|------------|--|--------------|
| BIOE 4460 | Air Pollution Assessment and Management | 4 |
| CIVL 4332 | Civil Engineering Thesis Project | 4 |
| CIVL 4500 | Contemporary Topics in Civil Engineering | 4 |

| | | |
|-----------|----------------------------------|---|
| SOIL 4500 | Remediation of Contaminated Land | 3 |
|-----------|----------------------------------|---|

Notes:

1) Students are required to take any course from the Faculty of Arts or Faculty of Management, at the 1000 level or above, as a complementary studies elective. However, ARTS 1110 Introduction to University may not be used for credit in the Faculty of Engineering. Students pursuing the Environmental Option must take PHIL 2750 as their complementary studies elective.

2) Technical elective courses offered vary from year to year and may have limited enrollment. Courses offered in the current year are listed on the online timetables on the Department website.

3) Students are encouraged to discuss their program of courses with members of the instructional staff to obtain advice concerning the best choice of electives for their needs.

4) CIVL 4024 can not be held with BIOE 4412 or BIOE 4700.

5) Students may take one technical elective course with a significant engineering science and/or design component from another department subject to the approval by the department head (or designate) of Civil Engineering.

Co-operative Education Option in Civil Engineering

Please refer to SECTION 5: Co-operative Education and Industrial Internship Programs

4.7 Civil Engineering Course Descriptions-2000 Level**CIVL 2770 Civil Engineering Materials****Cr. Hrs. 5**

Principles of testing; testing standards; instrumentation; data acquisition systems; mechanical properties of steel, iron, cement, concrete, asphalt, wood and composites; classification and particle size analysis of soils and aggregates. Prerequisite: ENG 1440. Corequisite: CIVL 2800.

CIVL 2780 Civil Engineering Systems**Cr. Hrs. 4**

Introduction to applied systems analysis approach. Use of applied systems analysis in Civil Engineering. Optimization techniques: linear programming; dynamic programming; other techniques. Evaluation: decision analysis. Prerequisites: (MATH 1710 or MATH 1700) (C).

CIVL 2790 Fluid Mechanics**Cr. Hrs. 4**

Definition of fluid; fluid properties; variation of pressure in a fluid; hydrostatic forces; buoyancy; kinematics of flow; control volumes; continuity; Bernoulli's equation; momentum equation; energy equation; flow in closed conduits; open channel flow. Prerequisites: ENG 1440, MATH 1710 or MATH 1700.

CIVL 2800 Solid Mechanics 1**Cr. Hrs. 4**

Analysis of deformable bodies; stress and strain in three dimensions; equilibrium equations and strain-displacement relations; constitutive relations and mechanical behaviour of materials; radially symmetric and plane problems in elasticity; relevant experimental demonstrations. Prerequisites: ENG 1440, MATH 1710 or MATH 1700.

CIVL 2830 Graphics for Civil Engineers**Cr. Hrs. 2**

Orthographic Drawing: Object Orientation and Views, Space Dimensions, Surfaces, Lines, and Hidden Features. Computer-based Drawings. Applications: Steel and Reinforced Concrete Structures, Digital Terrain Models. Ethical, Legal and Professional Issues. Co-requisite: CIVL 2840.

CIVL 2840 Civil Engineering Geomatics**Cr. Hrs. 3**

Geomatics in civil engineering, map-making, map-reading, computerized maps; leveling; distance measurement angles, directions, traverses; coordinate geometry; electronic survey instruments; global positioning system; geographic information systems; digital photogrammetric methods and data; aspects of route surveying. Not to be held with CIVL 2820. Pre or Co-requisite: MATH 1210 (C), Co-requisite: CIVL 2830.

4.7.1 Civil Engineering Course Descriptions-3000 Level

CIVL 3590 Numerical Methods in Engineering Analysis **Cr. Hrs. 4**

Variety of numerical techniques applicable to solutions of problems in civil engineering. Students may not hold credit for CIVL 3590 and MATH 2120. Prerequisite: COMP 1010 or COMP 1012 (C). Pre or Co-requisite: MATH 2132 or prerequisite MATH 2100.

CIVL 3690 Environmental Engineering Analysis **Cr. Hrs. 4**

Introduction to environmental engineering analysis concept; risk assessment; colloidal dispersions; mass balances, reaction kinetics and reactor design principles. Water pollution and water quality in rivers and lakes. Physical, chemical and biological unit operations and processes applied in water and/or wastewater treatment. Meteorology and air pollution; atmospheric dispersion. Solid waste management issues. Prerequisites: (CHEM 1310 or CHEM 2560), STAT 2220

CIVL 3700 Environmental Engineering Design **Cr. Hrs. 4**

Design principles are developed for water, solid/soil and air pollution control. Application of the principles in design projects which may include surface and groundwater remediation, solid waste management, landfilling, soil remediation and site assessment; municipal and industrial wastewater treatment; odour and air pollution abatement facilities. Prerequisite: CIVL 3690.

CIVL 3710 Finite Element Analysis **Cr. Hrs. 4**

One-dimensional analysis of fluid flow, seepage and heat transfer; truss, beam and frame elements; two-dimensional problems; isoparametric elements and Gauss quadrature; time-dependent problems, diffusion, consolidation, and time integration methods; introduction to commercial packages; solution of problems in civil engineering (seepage, dams, pavements). Prerequisites: [CIVL 2790, CIVL 2800], [CIVL 3590 or MATH 2120].

CIVL 3730 Geotechnical Materials and Analysis **Cr. Hrs. 4**

Soil and rock properties: laboratory and field techniques; in situ states of stress and consolidations; constitutive models; stress beneath loaded areas and around tunnels; analysis of simple retaining structures and slopes; stability and settlement of shallow and deep foundations in soil and rock. Prerequisites: (GEOL 1340 or the former GEOL 2250), CIVL 2770, CIVL 2800.

CIVL 3740 Hydraulics **Cr. Hrs. 4**

Hydraulics of uniform and gradually varied flow; backwater computation and classification of surface water profiles; hydraulics jumps, spillways, and stilling basins; flow over weirs; hydraulic models; theory of turbo-machinery. Prerequisite: CIVL 2790.

CIVL 3750 Hydrology **Cr. Hrs. 4**

Basic hydrological processes; precipitation; evapotranspiration; infiltration and runoff; analytical methods; hydrograph theory and application; application to reservoir design; project floods and flow forecasting; statistical analysis. Prerequisite or corequisite: STAT 2220 or (STAT 1000 and STAT 2000).

CIVL 3760 Structural Analysis **Cr. Hrs. 4**

Different structural forms and load distribution, analysis of cables; statically determinate curved, beams and frames; influence lines; energy methods

and deflections of structures; flexibility and stiffness methods; computer-aided structural analysis; introduction to structural dynamics. Prerequisite: CIVL 2800.

CIVL 3770 Structural Design 1 **Cr. Hrs. 4**

Introduction to design of steel structures; loading, structural configurations; design of simple members and connections; building code requirements. Prerequisites: CIVL 2770 (C), CIVL 3760 (C).

CIVL 3790 Transportation Engineering 1 **Cr. Hrs. 4**

Introduction to transportation. Overview of Canada and U.S. transport systems. Fundamentals of transport systems analysis. Introduction to sequential demand modeling. Analysis and evaluation of uninterrupted flow on highways. Basics of geometric design of highways. Basics of design of at-grade intersections. Introduction to computer applications in transportation engineering. Basics of pavement engineering and design. Prerequisites: CIVL 2840, CIVL 2770, CIVL 2780 and STAT 2220 or (STAT 1000 and STAT 2000).

4.7.2 Civil Engineering Course Descriptions-4000 Level

CIVL 4020 Masonry Design and Construction **Cr. Hrs. 4**

Introduction to the building codes that govern masonry design. Advanced design procedures for masonry members and structures. Single-story and multi-story building design. Prerequisite: CIVL 3760.

CIVL 4022 Properties and Design of Concrete Mixtures **Cr. Hrs. 4**

Constituent materials (cement, admixtures, etc.) of concrete; performance-based design and control of concrete mixtures; fresh, hardened and durability properties of concrete. Prerequisite: CIVL 2770.

CIVL 4024 Sustainable Building Design: Principles of Best Practice **Cr. Hrs. 4**

(Lab required) Best practices in sustainable design; current standards that govern building envelope components, cladding systems, membranes, interface details and indoor air quality. Industry challenges; presents fundamental principles of building science and demonstrates their application to the design, repair and maintenance of buildings; building systems; how environments affect material performance. May not be held with BIOE 4412 or BIOE 4700. Prerequisite: CIVL 3760, Pre or Corequisite: CIVL 3770.

CIVL 4030 Structural Design 3 **Cr. Hrs. 4**

Prestressed concrete structures; fibre-reinforced concrete structures; bridge loading, analysis and design in steel and concrete; special topics in structural engineering. Prerequisites: CIVL 2770, CIVL 2800, CIVL 3760, CIVL 3770, CIVL 4390.

CIVL 4040 Structural Dynamics **Cr. Hrs. 4**

Dynamic loads in civil engineering; overview of structural dynamics; single-degree-of-freedom systems; free-vibration, harmonic, periodic and impulsive loads; multi-degree-of-freedom systems; distributed systems; beam vibrations; steady-state vibrations of foundations; introduction to earthquake engineering; elastic waves in soils, response and design spectrums; wind vibrations. Prerequisite: CIVL 3760.

CIVL 4050 Engineering Economics **Cr. Hrs. 3**

Introduction to engineering economics. Time value of money and discounted cash flow calculations. Comparing alternatives. Replacement analysis and life-cycle costing. Public sector engineering economy studies. Private sector engineering economy studies. Before and after-tax analysis. Applications in cost-estimating. Applications in asset management systems. Basic accounting. Accommodating capital limitations. Dealing with

inflation. Dealing with risk and uncertainty. Prerequisite: STAT 2220 or (STAT 1000 and STAT 2000).

CIVL 4100 Engineering Management and the Environment **Cr. Hrs. 4**

Teams of students apply environmental management techniques, such as: impact assessment, site assessment, and auditing to selected engineering construction projects and operations; several oral and written reports are required. Co- or prerequisite: CIVL 3700.

CIVL 4120 Water Treatment Plant Design **Cr. Hrs. 4**

Design of unit processes used in potable water treatment plants: solid/liquid separation, oxidation, coagulation, filtration, adsorption and disinfection. Determination of design parameters through laboratory studies. Water treatment plants design standards and guidelines. Prerequisite: CIVL 3690.

CIVL 4130 Solid Waste Management **Cr. Hrs. 4**

Engineering principles and the practice of integrated management of solid wastes, including characteristics, sorting, utilization and final disposal in landfill. Principles of leachate and hazardous waste management and disposal. Pre or Co-requisite: CIVL 3700.

CIVL 4180 Environmental Systems **Cr. Hrs. 4**

Development of a river water quality model; waste allocation modelling; modelling of the sites selection process; analysis of environmental impact using technical and non-technical (i.e. sociological, ethical, aesthetic) parameters. Prerequisites: CIVL 2780, CIVL 3690, CIVL 3750.

CIVL 4200 Groundwater Contamination **Cr. Hrs. 4**

Introduction to the principles of groundwater chemistry; chemical evolution of natural groundwater flow systems; sources of contamination; mass transport processes; hydrochemical behaviour of contaminants; nuclear waste disposal; non-aqueous phase organics; aquifer remediation. Prerequisites: CIVL 2790 and (GEOL 1340 or GEOL 2250). Pre or Co-requisite: CIVL 3690.

CIVL 4220 Geotechnical Design **Cr. Hrs. 4**

Site characterization; design and construction of surface footings, deep foundations, tunnels, earth and rock support systems; design and remediation of slopes; frozen soils and foundation design; geosynthetics and geofabrics in geotechnical construction; reinforced earth; geoenvironmental issues; tailing dams, clean-up, and remediation. Prerequisite: CIVL 3730.

CIVL 4230 Geotechnical Engineering **Cr. Hrs. 4**

Case-history approach to geotechnical engineering practice from civil and mining engineering; relationship between predicted and observed behaviour; surface and shallow footings; propped walls and bulkheads; rock and soft ground tunneling; deep foundations; rock and soil slopes; culverts; geoenvironmental problems. Prerequisite: CIVL 3730.

CIVL 4232 Geotechnical Earthquake Engineering **Cr. Hrs. 4**

(Lab required) Introduction to soil dynamics and geotechnical earthquake engineering. Behavior of soil subjected to various types of dynamic or cyclic loadings; liquefaction and lateral spreading of soil; design of shallow and deep foundations. retaining structures, slopes and pavements subject to seismic loading; design code provisions. Prerequisite: CIVL 3730.

CIVL 4250 Groundwater Hydrology **Cr. Hrs. 4**

Introduction to theory of groundwater flow; flow nets; regional groundwater flow; well hydraulics; role of groundwater in geologic and engineering processes; multiphase flow. Prerequisites: GEOL 2250, CIVL 2790, MATH 2130 (or MATH 2110), MATH 2132 (or MATH 2100).

CIVL 4300 Design of Urban Water Systems **Cr. Hrs. 4**

Water supply and the design of water distribution systems. Urban hydrology and design of wastewater and stormwater collection systems. Manitoba specific applications will be discussed. Prerequisites: CIVL 2790. Pre-or Corequisites: CIVL 3750.

CIVL 4332 Civil Engineering Thesis Project **Cr. Hrs. 4**

The student will undertake an original study involving engineering design, procedure, or experimental investigation that emphasizes the student's initiative and judgement. The student must demonstrate an ability to plan, conduct and formally report on the study by written thesis and oral presentation. May not be held with CIVL 4330. Prerequisites: Completion of 120 credit hours, and [ENG 2030 or ENG 2040 (or the former ENG 2010)].

CIVL 4350 Hazardous Waste Treatment **Cr. Hrs. 4**

Sources and classification of hazardous and industrial wastes. Overview of the waste management problem. Theory and applications of various physical, chemical, and thermal, waste treatment processes. Waste elimination options and strategies. Prerequisite: CIVL 3690.

CIVL 4380 Infrastructure Engineering and Construction Management **Cr. Hrs. 4**

Infrastructure engineering; drainage systems, maintenance engineering and management. Construction and project management; workplace health and safety, construction site field trips, construction equipment, temporary facilities, project management. Elements of law for civil engineers. Prerequisite: ENG 3000 or CIVL 4050.

CIVL 4390 Structural Design 2 **Cr. Hrs. 4**

Design in reinforced concrete; properties of materials; ultimate strength design; analysis and design of sections in bending; shear and development considerations; short- and long-term deflection; sections subjected to bending and axial stresses; design of simple floor systems; column footings. Prerequisites: CIVL 2770, CIVL 2800, CIVL 3760, CIVL 3770.

CIVL 4400 Transportation Engineering 2 **Cr. Hrs. 4**

Fundamentals of traffic control for highways. Capacity and level of service analysis on urban streets. Urban supplement to geometric design guide for Canadian roads. Modelling vehicle performance. Elements of railway engineering. Design for trucks. Transportation systems management. Application of intelligent transportation systems. Basic pavement design methods. Introduction to pavement management systems. Highway accidents and design for safety. Legislative and policy framework for transportation engineering. Prerequisite: CIVL 3790.

CIVL 4410 Transportation Systems **Cr. Hrs. 4**

Contemporary approaches to transportation planning. Data for transportation planning. Advanced demand analysis and modelling. Illustrative transport planning studies. Planning and design for public passenger transportation. Planning and design for barrier-free transportation and transport of disabled persons. Goods movement and trucking studies. Planning and design for motor carrier operations. Planning and design for grain handling and transportation. Transport planning in developing countries. Evaluating transport plans and projects. Transport and the environment. Transport and energy. Vehicle operating costs and engineering unit cost models. Prerequisite: CIVL 3790.

CIVL 4420 Highway Pavement Design **Cr. Hrs. 4**

Soil classification and properties; soil-moisture-density-strength relationships; earthwork operations and specifications; soil stabilization; granular bases; surface drainage; structural design of flexible and rigid pavements. Prerequisites: CIVL 2770, CIVL 3790.

CIVL 4460 Technology, Society, and the Future **Cr. Hrs. 3**

Impact of technology and technological change on society - past, present, future; specific technologies, e.g. construction, machine power, computers, communications, medical, military: the process of technological change; invisible effects of technology; technology and resource use; sustainable development, limits to growth and the role of technology. Prerequisite: A grade of "C" or better in one of the courses from the list of Written English for Engineering Students, or the former ENGL 1310, or the former ENGL 1320.

CIVL 4470 Watershed Processes **Cr. Hrs. 4**

Rainfall-runoff processes, flood routing; characteristics and mechanics of flow in (natural) channels; computer modelling of watershed hydrology and hydraulics; influence of man-made structures; river morphology, sediment transport prediction, design of a stable channel; river ice processes. Prerequisite: CIVL 3750. Pre or co-requisite: CIVL 3740.

CIVL 4500 Contemporary Topics in Civil Engineering **Cr. Hrs. 4**

This course will cover contemporary topics in Civil Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Permission of the department head.

CIVL 4590 Design Project **Cr. Hrs. 6**

An interdisciplinary project-based course involving engineering design, teamwork and delivered in studio format. Students are expected to work in pre-assigned teams under the guidance of professional engineers on a pre-determined project. Lecture material will cover project management, construction, environmental and economic issues. Each team will be required to give an oral presentation of their design project. Prerequisite:[ENG 2030 or ENG 2040 (or the former ENG 2010)], CIVL 2840, CIVL 3690, CIVL 3730, CIVL 3740, CIVL 3750, CIVL 3770, and CIVL 3790.

4.8 Electrical and Computer Engineering

Head: Dr. Dean McNeill, P. Eng., Acting Head (through December 2019) for Dr. J. LoVetri, P.Eng. (on research leave through December 2019)
Associate Head(s): Dr. Dean McNeill, P.Eng. (Computer Engineering); Dr. Behzad Kord, P.Eng. (Electrical Engineering) (Acting)
Campus Address/General Office: E2-390 EITC
Email Address: ece-inquiries@lists.umanitoba.ca
Telephone: 204 474 9603
Fax: 204 261 4639
Website: <http://umanitoba.ca>

The Department of Electrical and Computer Engineering offers two fully accredited degree programs, one in Electrical Engineering and one in Computer Engineering. Both programs may include an industry internship (co-op). The programs are designed to give students knowledge of the basic principles of engineering and, in particular, an adequate training and education in the fundamentals and professional applications of Electrical and Computer Engineering. It is recommended that students entering Electrical or Computer Engineering acquire their own computer.

Industry Internship Program (IIP)

The Faculty of Engineering offers cooperative education or industry internship opportunities as part of all degree programs. For information on these programs, please refer to *SECTION 5: Co-operative Education and Industrial Internship Programs*.

4.8.1 Computer Engineering Degree Program

The program in Computer Engineering has a core-plus-elective structure. The core includes fundamental professional courses focused on digital hardware, digital systems design, software engineering, algorithms, electronics, and communications, as well as developing a necessary foundation in mathematics, computer programming, electric circuits, the

physical sciences, and thermodynamics. At the conclusion of the program, a graduate will have acquired both the knowledge and experience necessary to design and engineer practical custom digital hardware and software systems to solve real-world problems. To support that outcome, the final year includes a significant, industrially relevant, capstone group design project as a core requirement, with the remaining program based on electives. A certain level of specialization is possible through the selection of elective courses offered in the final year. In addition, the Department offers recognized Focus Areas in Computer Networks and Communications, Embedded Systems, and Software Engineering, and Biomedical as described in Section 4.8.3.

The student's program must include six credit hours of complementary studies electives. Courses in engineering economics, technical writing, and ecology, technology and society are compulsory.

Students are encouraged to consult with the department for model four-year and five-year programs. Students are strongly encouraged to follow the model programs when possible, as timetabling and course offerings are based on these.

Preliminary Engineering Program

All degree programs within the Faculty of Engineering consist of a common first-year known as the *Preliminary Engineering Program*. For information on the preliminary program, please refer to Section 4.2.

Computer Engineering Departmental Program

| Course No. | | Credit Hours |
|------------|---|--------------|
| ANTH 2430 | Ecology, Technology and Society | 3 |
| CHEM 1300 | Structure and Modelling of Chemistry | 3 |
| ENG 3000 | Engineering Economics | 3 |
| COMP 1012 | Computer Programming for Scientists and Engineers | 3 |
| COMP 1020 | Computer Science 2 | 3 |
| COMP 2140 | Data Structures and Algorithms | 3 |
| COMP 3430 | Operating Systems | 3 |
| ENG 1430 | Design in Engineering | 3 |
| ENG 1440 | Introduction to Statics | 3 |
| ENG 1450 | Introduction to Electrical and Computer Engineering | 3 |
| ENG 1460 | Introduction to Thermal Sciences | 3 |
| ENG 2030 | Engineering Communication: Strategies for the Profession | 3 |
| or | | |
| ENG 2040 | Engineering Communication: Strategies, Practice, and Design | 3 |
| ENG 3000 | Engineering Economics | 3 |
| MATH 1210 | Techniques of Classical and Linear Algebra | 3 |
| MATH 1510 | Applied Calculus 1 (or equivalent) | 3 |
| MATH 1710 | Applied Calculus 2 (or equivalent) | 3 |
| MATH 2130 | Engineering Mathematical Analysis | 3 |
| MATH 2132 | Engineering Mathematical Analysis 2 | 3 |
| MATH 3120 | Applied Discrete Mathematics | 3 |

| | | |
|-----------|---|---|
| MATH 3132 | Engineering Mathematical Analysis 3 | 3 |
| PHIL 1290 | Critical Thinking ** | 3 |
| PHYS 1050 | Physics 1: Mechanics | 3 |
| PHYS 2152 | Modern Physics for Engineers | 3 |
| STAT 2220 | Introduction to Probability and Statistics | 3 |
| ECE 2160 | Electronics 2E | 5 |
| ECE 2220 | Digital Logic Systems | 5 |
| ECE 2262 | Electric Circuits | 4 |
| ECE 3610 | Microprocessor Systems | 4 |
| ECE 3700 | Telecommunication Network Engineering | 4 |
| ECE 3740 | System Engineering Principles 1 | 4 |
| ECE 3760 | Digital Systems Design 1 | 4 |
| ECE 3780 | Signal Processing 1 | 4 |
| ECE 3790 | Engineering Algorithms | 4 |
| ECE 4150 | Control Systems | 4 |
| or | | |
| ECE 4260 | Communication Systems | 4 |
| ECE 4240 | Microprocessor Interfacing | 4 |
| ECE 4830 | Signal Processing 2 | 4 |
| ECE 4600 | Group Design Project (See Note 1) | 6 |
| | Plus 1 course from the list of Written English Courses for Engineering Students | |
| | Plus 1 Complimentary Studies Elective | |
| | Plus 2 Natural Science Electives from the approved list | |
| | Plus 5 Technical Electives from the approved list | |
| | **Phil 1290 Critical Thinking is the recommended complimentary studies elective. However, students may select any course from the Faculty of Arts or the Faculty of Management at the 1000 level or above, with the exception of ARTS 1110 Introduction to the University which may not be held for credit within the Faculty of Engineering. | |

Total credits for Graduation 152-157

Computer Engineering Technical Electives (5 required) (see Note 3)

Students may select their five technical electives from the following approved list of courses from Computer Engineering, Electrical Engineering, or Computer Science, with the only limitations that no more than two may come from the list of Approved Electrical Engineering Electives.

Computer Engineering Electives

| | | |
|----------|----------------------------------|---|
| ECE 3750 | Systems Engineering Principles 2 | 4 |
| ECE 3770 | Digital Systems Design 2 | 4 |
| ECE 4180 | Introduction to Robotics | 4 |
| ECE 4250 | Digital Communications | 4 |

| | | |
|----------|--|---|
| ECE 4420 | Digital Control | 4 |
| ECE 4440 | Computer Vision | 4 |
| ECE 4450 | Applied Computational Intelligence | 4 |
| ECE 4520 | Simulation and Modelling | 4 |
| ECE 4530 | Parallel Processing | 4 |
| ECE 4560 | Modern Computing System | 4 |
| ECE 4540 | Wireless Networks | 4 |
| ECE 4740 | Digital System Implementation | 4 |
| ECE 4850 | Topics in Electrical and Computer Engineering 1 (see Note 6) | 4 |
| ECE 4860 | Topics in Electrical and Computer Engineering 2 (see Note 6) | 4 |
| ECE 4870 | Topics in Electrical and Computer Engineering 3 (see Note 6) | 3 |
| ECE 4880 | Topics in Electrical and Computer Engineering 4 (see Note 6) | 3 |

Approved Electrical Engineering Electives (maximum of 2) (see Note 3)

| | | |
|----------|--|---|
| ECE 3540 | Advanced Circuit Analysis and Design | 4 |
| ECE 3580 | Foundations of Electromagnetics | 4 |
| ECE 3600 | Physical Electronics | 4 |
| ECE 3670 | Electronics 3E | 4 |
| ECE 3720 | Electric Power and Machines | 4 |
| ECE 4100 | Microelectronic Fabrication | 4 |
| ECE 4150 | Control Systems | 4 |
| ECE 4160 | Control Engineering | 4 |
| ECE 4260 | Communication Systems | 4 |
| ECE 4390 | Engineering Computation 4E | 4 |
| ECE 4610 | Biomedical Instrumentation and Signal Processing | 4 |

Approved Computer Science Electives

| | | |
|-----------|--|---|
| COMP 2150 | Object Orientation | 3 |
| COMP 2160 | Programming Practices | 3 |
| COMP 3010 | Distributed Computing | 3 |
| COMP 3020 | Human-Computer Interaction 1 | 3 |
| COMP 3190 | Introduction to Artificial Intelligence | 3 |
| COMP 3350 | Software Engineering 1 | 3 |
| COMP 3290 | Introduction to Compiler Construction | 3 |
| COMP 3380 | Databases Concepts and Usage | 3 |
| COMP 3490 | Computer Graphics 1 | 3 |
| COMP 4020 | Human-Computer Interaction 2 | 3 |
| COMP 4140 | Introduction to Cryptography and Cryptosystems | 3 |
| COMP 4190 | Artificial Intelligence | 3 |
| COMP 4200 | Expert Systems | 3 |
| COMP 4350 | Software Engineering 2 | 3 |
| COMP 4360 | Machine Learning | 3 |
| COMP 4380 | Database Implementation | 3 |
| COMP 4430 | Operating Systems 2 | 3 |
| COMP 4490 | Computer Graphics 2 | 3 |
| COMP 4580 | Computer Security | 3 |
| COMP 4710 | Introduction to Data Mining | 3 |

Natural Science Electives for Computer Engineering

The Computer Engineering program requires students to complete two (2) Natural Science Electives as part of their program selected from a Department approved list. These courses may be taken anytime during the student's program. One course must be selected from *Group A*. The second may be selected from either *Group A* or *Group B*.

Approved Natural Science Electives - Group A (1 required)

| | | |
|-----------|---|---|
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| PHYS 2600 | Electromagnetic Field Theory | 3 |
| PHYS 3630 | Electro- and Magnetostatic Theory | 3 |

Approved Natural Science Electives - Group B

| | | |
|-----------|--|---|
| ASTR 1810 | Astronomy: The Universe | 3 |
| ASTR 3180 | Stars | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1300 | Economic Plants | 3 |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ENTM 2050 | Introduction to Entomology | 3 |
| GEOL 1340 | The Dynamic Earth | 3 |
| MBIO 1220 | Essentials of Microbiology | 3 |
| PHYS 2260 | Optics | 3 |
| PHYS 2386 | Introduction to Quantum Mechanics and Special Relativity | 3 |

| | | |
|-----------|--|---|
| PHYS 2650 | Classical Mechanics 1 | 3 |
| PHYS 3220 | Medical Physics and Physiological Measurements | 3 |

NOTES:

1. Course continues through both terms with credit given upon completion.
2. The complementary studies elective can be any course at the 1000 level or above from either the faculties of Arts or Management. However, ARTS 1110 Introduction to University may not be used for credit in the Faculty of Engineering.
3. The Department of Electrical and Computer Engineering does not guarantee that all elective courses will be offered every session or that it will be possible to fit courses into all of the many possible timetable combinations of students taking the programs. The term in which an elective course is offered is specified each year in the online timetables on the Department website. There may be a maximum limit on the number of students allowed to take an elective in a particular session. Similarly, there may be a minimum limit and if registration is below the minimum, the elective will be cancelled for the session, and those registered will be required to transfer to another elective before the deadline date for course changes.
4. Students are urged to discuss their program of courses with members of the instructional staff before the end of their third year to obtain advice concerning the best choice of electives for their needs.
5. The natural science elective course is to be chosen from a list of courses approved by the Department and available on the Department website.
6. Requires permission of the Department.

4.8.2 Electrical Engineering Degree Program

The program in Electrical Engineering has a core-plus-elective structure. The core develops the necessary base in mathematics, the physical sciences, dynamics, thermodynamics, electric fields and circuits, and fundamental professional courses focused on energy conversion and transmission, electronics, materials and devices, communications, and control systems. At the conclusion of the program, a graduate will have acquired both the knowledge and experience necessary to design and engineer practical electrical and electronic systems to solve real-world problems. To support that outcome, the final year includes a significant, industrially relevant, capstone group design project, in addition to control systems, and communication systems as core requirements, with the remaining program based on electives. A certain level of specialization is possible through the selection of elective courses offered in the final year. In addition, the Department offers recognized Focus Areas in Power and Energy Systems, Communication Devices, Engineering Physics, and Biomedical, as described in Section 4.8.4.

The student's program must include six credit hours of complementary studies electives. Courses in engineering economics, technical writing, and ecology, technology and society are compulsory.

Students are encouraged to consult with the department for model four-year and five-year programs. Students are strongly encouraged to follow the model programs when possible, as timetabling and course offerings are based on these.

Preliminary Engineering Program

All degree programs within the Faculty of Engineering consist of a common first-year known as the *Preliminary Engineering Program*. For information on the preliminary program, please refer to Section 4.2.

Electrical Engineering Departmental Program

| Course No. | | Credit Hours |
|------------|---|--------------|
| ANTH 2430 | Ecology, Technology and Society | 3 |
| CHEM 1300 | Structure and Modelling of Chemistry | 3 |
| COMP 1012 | Computer Programming for Scientists and Engineers | 3 |
| ENG 1430 | Design in Engineering | 3 |
| ENG 1440 | Introduction to Statics | 3 |
| ENG 1450 | Introduction to Electrical and Computer Engineering | 3 |
| ENG 1460 | Introduction to Thermal Sciences | 3 |
| ENG 2030 | Engineering Communication: Strategies for the Profession | 3 |
| or | | |
| ENG 2040 | Engineering Communication: Strategies, Practice, and Design | 3 |
| ENG 3000 | Engineering Economics | 3 |
| MATH 1210 | Techniques of Classical and Linear Algebra | 3 |
| MATH 1510 | Applied Calculus 1 (or equivalent) | 3 |
| MATH 1710 | Applied Calculus 2 (or equivalent) | 3 |
| MATH 2130 | Engineering Mathematical Analysis | 3 |
| MATH 2132 | Engineering Mathematical Analysis 2 | 3 |
| MATH 3132 | Engineering Mathematical Analysis 3 | 3 |
| PHIL 1290 | Critical Thinking** | 3 |
| PHYS 1050 | Physics 1: Mechanics | 3 |
| PHYS 2152 | Modern Physics for Engineers | 3 |
| STAT 2220 | Introduction to Probability and Statistics | 3 |
| ECE 2160 | Electronics 2E | 5 |
| ECE 2220 | Digital Logic Systems | 5 |
| ECE 2240 | Numerical Methods for Electrical Engineers | 4 |
| ECE 2262 | Electric Circuits | 4 |
| ECE 3540 | Advanced Circuit Analysis and Design | 4 |

| | | |
|----------|---|---|
| ECE 3580 | Foundations of Electromagnetics | 4 |
| ECE 3590 | Electromagnetic Theory | 4 |
| ECE 3600 | Physical Electronics | 4 |
| ECE 3610 | Microprocessor Systems | 4 |
| ECE 3670 | Electronics 3E | 4 |
| ECE 3720 | Electric Power and Machines | 4 |
| ECE 3730 | Principles of Embedded System Design (See Note 8) | 4 |
| ECE 3780 | Signal Processing 1 | 4 |
| ECE 4150 | Control Systems | 4 |
| ECE 4260 | Communications Systems | 4 |
| ECE 4600 | Group Design Project (see Note 1) | 6 |
| | Plus 1 course from the list of Written English Courses for Engineering Students | |
| | Plus 1 Complimentary Studies Elective | |
| | Plus 1 Natural Science Elective from the approved list | |
| | Plus 7 Technical Electives from the approved list | |
| | **PHIL 1290 Critical Thinking is the recommended complimentary studies elective. However, students may select any course from the Faculty of Arts or the Faculty of Management at the 1000 level or above, with the exception of ARTS 1110 Introduction to the University which may not be held for credit within the Faculty of Engineering. | |

Total credits for Graduation 158-163

Electrical Engineering Technical Electives (7 required) (see Notes 3, 4)

Group A Qualified Engineering Design Elective Courses (3 required)

| | | |
|----------|------------------------|---|
| ECE 4160 | Control Engineering | 4 |
| ECE 4250 | Digital Communications | 4 |
| ECE 4290 | Microwave Engineering | 4 |
| ECE 4370 | Power Electronics | 4 |
| ECE 4830 | Signal Processing 2 | 4 |

Group B Technical Elective Courses

| | | |
|----------|---------------------------------------|---|
| ECE 3650 | Electric Machines | 5 |
| ECE 3700 | Telecommunication Network Engineering | 4 |

| | | |
|-----------|--|---|
| ECE 3770 | Digital Systems Design 2 | 4 |
| ECE 4100 | Microelectronic Fabrication | 4 |
| ECE 4140 | Power Transmission Lines | 4 |
| ECE 4180 | Introduction to Robotics | 4 |
| ECE 4200 | Electric Filter Design | 4 |
| ECE 4240 | Microprocessor Interfacing | 4 |
| ECE 4270 | Antennas | 4 |
| ECE 4280 | Engineering Electromagnetics | 4 |
| ECE 4300 | Electrical Energy Systems 1 | 4 |
| ECE 4310 | Electrical Energy Systems 2 | 4 |
| ECE 4360 | High Voltage Engineering | 4 |
| ECE 4390 | Engineering Computation 4E | 4 |
| ECE 4420 | Digital Control | 4 |
| ECE 4430 | Design of RF Devices and Wireless Systems | 4 |
| ECE 4440 | Computer Vision | 4 |
| ECE 4520 | Simulation and Modelling | 4 |
| ECE 4530 | Parallel Processing | 4 |
| ECE 4540 | Wireless Networks | 4 |
| ECE 4560 | Modern Computing Systems | 4 |
| ECE 4580 | Optoelectronics | 4 |
| ECE 4610 | Biomedical Instrumentation and Signal Processing | 4 |
| ECE 4740 | Digital Systems Implementation | 4 |
| ECE 4850 | Topics in Electrical and Computer Engineering 1 | 4 |
| ECE 4860 | Topics in Electrical and Computer Engineering 2 | 4 |
| ECE 4870 | Topics in Electrical and Computer Engineering 3 | 3 |
| ECE 4880 | Topics in Electrical and Computer Engineering 4 | 3 |
| COMP 1020 | Computer Science 2 | 3 |

| | | |
|-----------|---|---|
| COMP 2140 | Data Structures and Algorithms | 3 |
| COMP 3190 | Introduction to Artificial Intelligence | 3 |
| COMP 4360 | Machine Learning | 3 |
| MATH 3120 | Applied Discrete Mathematics | 3 |
| MATH 3460 | Partial Differential Equations | 3 |
| PHYS 2260 | Optics | 3 |
| PHYS 3220 | Medical Physics and Physiological Measurement | 3 |
| PHYS 4590 | Advanced Optics | 3 |
| PHYS 4646 | Electro- and Magnetodynamics and Special Relativity | 3 |

Natural Science Electives for Electrical Engineering

The Electrical Engineering program requires students to complete an elective course in natural science selected from a Department approved list. This list is updated periodically to reflect changes in course offerings and is available on the Department website and as follows:

| Course No. | | Credit Hours |
|------------|---|--------------|
| ASTR 1810 | Introduction to Astronomy: The Magnificent Universe | 3 |
| ASTR 3180 | Stars | 3 |
| BIOL 1020 | Biology 1: Principles and Themes | 3 |
| BIOL 1300 | Economic Plants | 3 |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| CHEM 1320 | University 1 Chemistry: An Introduction to Organic Chemistry | 3 |
| ENTM 2050 | Introduction to Entomology | 3 |
| GEOL 1340 | The Dynamic Earth | 3 |
| MBIO 1220 | Essentials of Microbiology | 3 |
| PHYS 2260 | Optics | 3 |
| PHYS 2386 | Introduction to Quantum Mechanics and Special Relativity | 3 |
| PHYS 2650 | Classical Mechanics 1 | 3 |
| PHYS 3220 | Medical Physics and Physiological Measurements | 3 |

NOTES:

1. Course continues through both terms with credit given upon completion.

2. The complementary studies electives can be any course at the 1000 level or above from either the faculties of Arts or Management. However, ARTS 1110 (formerly 099.111) Introduction to University may not be used for credit in the Faculty of Engineering.

3. A minimum of 3 electives are required from Group A; the other 4 electives may be taken from either Group A or B unless the student completes a Focus Area.

4. The Department of Electrical and Computer Engineering does not guarantee that all elective courses will be offered every session or that it will be possible to fit courses into all of the many possible timetable combinations of students taking the programs. The term in which an elective course is offered is specified each year in the online timetables on the Department website. There may be a maximum limit set on the number of students allowed to take a particular elective in a session. Similarly, there may be a minimum limit and if registration is below the minimum, the elective will be cancelled and those registered will be required to transfer to another elective before the deadline date for course changes.

5. Students are urged to discuss their program of courses with members of the instructional staff before the end of their third year to obtain advice concerning the best choice of electives for their needs.

6. The natural science elective course is to be chosen from a list of courses approved by the Department.

7. Requires permission of the Department.

8. Students who do not complete ECE 3730 are required to have taken both ECE 3710 and ECE 4240.

9. Students must complete one Qualified Engineering Design technical elective. Please see:
http://umanitoba.ca/ece/curr_students/undergraduate.html

4.8.3 Computer Engineering Focus Areas

Students wishing to pursue more focused studies in a Computer Engineering subject/research area have the choice of doing so through a recognized Focus Area. Courses taken towards a Focus Area take the place of some of the Technical Electives required in the Computer Engineering program.

Computer Networks and Communications Focus Area

ECE 4260 Communication Systems

CNC Elective

CNC Elective

CNC Elective

All of the above courses plus 2 technical electives required

Computer Networks and Communications (CNC) Electives (choose 3)

ECE 4250 Digital Communication

ECE 4520 Simulation and Modelling

ECE 4540 Wireless Networks

ECE 4870 Computer Communication Networks

COMP 3010 Distributed Computing

COMP 4140 Introduction to Cryptography and Cryptosystems

COMP 4580 Computer Security

Embedded Systems Focus Area

ECE 4150 Control Systems

ES Elective

ES Elective

ES Elective

All of the above courses plus 2 technical electives required

Embedded Systems (ES) Electives List (choose 3)

ECE 3770 Digital Systems Design 2

ECE 4180 Introduction to Robotics

ECE 4440 Computer Vision

ECE 4560 Modern Computing Systems

ECE 4610 Biomedical Instrumentation and Signal Processing

ECE 4740 Digital System Implementation

COMP 3020 Human-Computer Interaction 1

COMP 4140 Introduction to Cryptography and Cryptosystems

COMP 4580 Computer Security

Software Engineering Focus Area

ECE 4260 or ECE 4150

COMP 3350 Software Engineering 1

SE Elective

SE Elective

SE Elective

All of the above courses plus 1 technical elective required

Software Engineering (SE) Electives (choose 3)

ECE 3750 Systems Engineering Principles 2

ECE 4530 Parallel Processing

COMP 3010 Distributed Computing

COMP 3020 Human-Computer Interaction 1

COMP 3380 Databases: Concepts and Usage

COMP 4350 Software Engineering 2

COMP 4580 Computer Security

COMP 4710 Introduction to Data Mining

Biomedical Focus Area

ECE 4610 Biomedical Instrumentation and Signal Processing

BIOL 1410 Anatomy of the Human Body*

PHYS 2600 Electromagnetic Field Theory*

Biomedical Group A Elective Course

Biomedical Group A or Group B Elective Course

All of the above courses plus (2) technical electives required.

*These courses satisfy the Natural Science Elective Requirement.

Biomedical Group A Elective Courses: (1 required)

ECE 4860 Biomedical Optics

PHYS 3220 Medical Physics and Physiological Measurement

PHYS 4300 Microfluidics for Biology

Biomedical Group B Elective Courses: (Choose 1 at most)

BIOL 1412 Physiology of the Human Body

MBIO 1220 Essentials of Microbiology

BIOE 3320 Engineering Properties of Biological Materials

BIOE 4610 Design of Assistive Technology Devices

4.8.4 Electrical Engineering Focus Areas

Students wishing to pursue more focused studies in an Electrical Engineering subject/research area have the choice of doing so through a recognized Focus Area. Courses taken towards a Focus Area take the place of some or all of the Technical Electives required in the Electrical Engineering program. See

http://umanitoba.ca/ece/curr_students/undergrad/ee-focus-areas.html for a detailed description of each area and the courses required.

Power and Energy Systems Focus Area

Requirements:

To complete the Power and Energy Systems Focus the four prescribed courses must be taken. One of the three Power and Energy Systems Technical Elective courses must also be taken. To complete the program requirements two additional courses must be selected from the elective courses listed in the Electrical Engineering Standard Program (Section 4.8.2).

Prescribed Power and Energy Systems Courses

ECE 3650 Electric Machines

ECE 4300 Electrical Energy Systems 1

ECE 4370 Power Electronics

One additional course from the list of Group A Qualified Design Elective Courses found in the Electrical Engineering Standard Program (Section 4.8.2).

Power and Energy Systems Technical Electives

ECE 4140 Power Transmission Lines

ECE 4310 Electrical Energy Systems 2

ECE 4360 High Voltage Engineering

Communication Devices Focus Area

Requirements:

To complete the Communication Devices Focus the three prescribed courses must be taken. Two of the five Communication Devices Technical Elective courses must also be taken. To complete the program requirements two additional courses must be selected from the elective courses listed in the Electrical Engineering Standard Program (Section 4.8.2).

Prescribed Communication Devices Courses

ECE 4270 Antennas

ECE 4290 Microwave Engineering

ECE 4250 Digital Communications for ECE 4830 Signal Processing 2

Communication Devices Technical Electives

ECE 4250 Digital Communications

ECE 4280 Engineering Electromagnetics

ECE 4430 Design of RF Devices and Wireless Systems

ECE 4580 Optoelectronics

ECE 4830 Signal Processing 2

Biomedical Focus Area

Requirements:

To complete the focus area, students are required to take a total of six (6) courses as indicated below. Of these, five (5) replace general technical electives and one (1) is in place of the Natural Science Elective in the Electrical Engineering program. To complete the program requirements two (2) additional courses must be selected from the technical electives listed in the Electrical Engineering Standard Program.

Prescribed Biomedical Courses:

ECE 4610 Biomedical Instrumentation and Signal Processing

ECE 4830 Signal Processing 2

BIOL 1410 Anatomy of the Human Body

One additional course from the list of Group A Qualified Design Elective Standard Program (Section 4.8.2)

Biomedical Group A Elective Courses: (1 Required)

ECE 4860 Biomedical Optics

PHYS 3220 Medical Physics and Physiological Measurement

PHYS 4300 Microfluidics for Biology

Biomedical Group B Elective Courses: (Choose at most 1)

BIOL 1412 Physiology of the Human Body

MBIO 1220 Essentials of Microbiology

BIOE 3320 Engineering Properties of Biological Materials

BIOE 4610 Design of Assistive Technology Devices

Engineering Physics Focus Area

Requirements:

In the standard Electrical Engineering program, seven Technical Elective Courses and one Natural Science Elective are required. To complete Engineering Physics focus area, students are required to take a total of seven courses as indicated below, including the four prescribed Engineering Physics courses. Three further courses must be taken from the list of Engineering Physics Elective courses. To complete the program requirements a course must be selected from the technical electives listed in the Electrical Engineering Standard Program (Section 4.8.2).

Prescribed Engineering Physics Courses

ECE 4270 Antennas

ECE 4580 Optoelectronics

PHYS 2386 Introduction to Quantum Mechanics and Special Relativity

PHYS 2650 Classical Mechanics 1

Engineering Physics Technical Elective Courses (3 required)

ECE 4860 Materials Characterization

PHYS 2260 Optics

PHYS 3220 Medical Physics and Physiological Measurement

PHYS 3386 Quantum Mechanics 2

PHYS 3430 Honours Physics Laboratory

PHYS 3570 Physics of Materials 1

PHYS 4646 Electro- and Magnetodynamics and Special Relativity

PHYS 3650 Classical Mechanics 2

PHYS 3670 Classical Thermodynamics

PHYS 4680 Statistical Mechanics

PHYS 4520 Introduction to Solid State Physics

PHYS 4590 Advanced Optics

4.8.5 Second Degree in Electrical and Computer Engineering

Students who have completed a first degree in Electrical Engineering or Computer Engineering may seek a second degree in the complementary program. The requirements for completion of the second degree include:

1. The completion of all deficient required (core) courses for the second degree. If a student has completed any of these courses as fourth year electives towards the first degree, then they will not have to repeat or replace the courses already taken.
2. The equivalent of a full fourth year program is required for the second degree, i.e., twelve half courses. This must include:
 - i) A second capstone group design project on a different topic relating to the field of the second degree;
 - ii) All the fourth year course requirements of the second degree. If a student has already taken one or more of the required fourth year courses during their first degree, then they must replace those courses by other appropriate fourth year courses as approved by the Department Head. For example, core courses common to both programs must be replaced by fourth year electives from the Department.

4.9 Electrical and Computer Engineering Course Descriptions-2000 Level

ECE 2160 Electronics 2E Cr. Hrs. 5

Characteristics of integrated circuits and transistors; design of DC and AC amplifiers in the steady state. Prerequisite: ECE 2262.

ECE 2220 Digital Logic Systems Cr. Hrs. 5

Boolean algebra and logic primitives, net-work simplification techniques, physical realizations, number systems and codes; analysis and design of asynchronous and synchronous sequential circuits; applications to computation, measurements, and control. Prerequisite ENG 1450

ECE 2240 Numerical Methods for Electrical Engineers Cr. Hrs. 4

Numerical methods applied to Electrical Engineering problems; mathematical models of physical systems, solutions of linear and non-linear equations, numerical differentiation and integration methods and associated errors, introduction to solution analysis. May not be held with MATH 2120. Prerequisites ECE 2262, COMP 1012, MATH 2132

ECE 2262 Electric Circuits Cr. Hrs. 4

The application of circuit concepts; network theorems and formal methods, steady state analysis, frequency and transient response, application of the Laplace transform in the analysis of linear time-invariant networks. Prerequisite: [ENG 1450. Pre- or corequisite: MATH 2132 or [MATH 2100 and MATH 2110].

4.9.1 Electrical and Computer Engineering Course Descriptions-3000 Level

ECE 3010 Elements of Electric Machines and Digital Systems Cr. Hrs. 4

Introduction to elementary concepts in ac circuits, electric machines, and digital sub-systems. Topics include electrical impedance, capacitors, inductors, electric motors, logic gates, decoders, multiplexing, flip flops, registers, microprocessor structures, I/O and data acquisition. Not available to students in Electrical or Computer Engineering. Prerequisite ENG 1450, MATH 2132, and a year class designation of Year 3 or Year 4.

ECE 3540 Advanced Circuit Analysis and Design Cr. Hrs. 4

Application of the Laplace Transform in the analysis of linear time-invariant networks, poles, zeros and frequency response; natural frequencies; general network theorems; two ports; energy and passivity; transmission lines; time and frequency domain. Prerequisite: ECE 2262 (or ECE 2260) and MATH 3132 (or MATH 3100).

ECE 3580 Foundations of Electromagnetics Cr. Hs. 4

(Formerly ECE 2130) Fundamental laws of field theory; Maxwell's equations in integral and point form. Prerequisite: ECE 2240, PHYS 2152, and MATH 3132 (MATH 3100).

ECE 3590 Electromagnetic Theory Cr. Hrs. 4

Maxwell's equations; plane electromagnetic waves; transmission line theory; electromagnetic radiation and introduction to antennas. Prerequisite: ECE 3580 (or the former ECE 2130.)

ECE 3600 Physical Electronics Cr. Hrs. 4

Basic solid state theory; properties of semi-conductors; principles of metal-semiconductor junctions, p-n junctions and transistors; optoelectronic processes. Prerequisites: PHYS 2152 or (PHYS 1070) and MATH 3132 or (MATH 3100), and ECE 3670.

ECE 3610 Microprocessing Systems Cr. Hrs. 4

Fundamentals of microprocessors and microcomputers; data flow; machine programming; architectures and instructions sets; stacks, subroutines, I/O, and interrupts; interfacing fundamentals; designing with microprocessors. Prerequisite: ECE 2220.

ECE 3650 Electric Machines **Cr. Hrs. 5**

Continuation of ECE 3720, including steady state and transient performance and introductory power systems theory. Prerequisite: ECE 3720

ECE 3670 Electronics 3E **Cr. Hrs. 4**

Continuation of ECE 2160, including device models, feedback, regulators, frequency effects, oscillators, and bistability and gates. Prerequisite: ECE 2160.

ECE 3700 Telecommunication Network Engineering **Cr. Hrs. 4**

This course will introduce modern concepts in telecommunications, including LANs, WANs, telephone networks, wireless and mobile networks, and Internet networks. Focus will be on design engineering, and management of networks, and on network programming for client server architectures. Prerequisite: COMP 2140.

ECE 3720 Electric Power and Machines **Cr. Hrs. 4**

(Lab required) Principles and applications of electric power, energy conversion and machines. Prerequisite: ECE 2262.

ECE 3730 Principles of Embedded System Design **Cr. Hrs. 4**

This course will introduce students to the design and implementation of embedded systems. Topics include introduction to UML and data structures, A-to-D, D-to-A, serial bus architectures, embedded computing, bus-based computer systems, program design and analysis, networks, and hardware-software co-design. Prerequisites: ECE 2160, ECE 3610 and (COMP 1010 or COMP 1012).

ECE 3740 Systems Engineering Principles 1 **Cr. Hrs. 4**

Complexity and other system measures and analysis, system architectures and architectural elements for embedded systems, hardware and software, incremental design elaboration. Coding, testing, debugging, verification and validation. Project planning, cost analysis and maintenance. Real-time systems, graphical user interfaces and computational models. Prerequisite: COMP 2140.

ECE 3750 Systems Engineering Principles 2 **Cr. Hrs. 4**

Reliability measures and analysis, software system architectures, system metrics, system verification for embedded systems. Coding practices for large scale embedded system development. Real-time systems, graphical user interfaces, and computational models. Prerequisite: ECE 3740.

ECE 3760 Digital Systems Design 1 **Cr. Hrs. 4**

Design methodologies for the development of digital hardware, including system specification, component allocation, functional partitioning, specification refinement, implementation, verification, and testing. Hardware-software co-design. Prerequisite: ECE 4240.

ECE 3770 Digital Systems Design 2 **Cr. Hrs. 4**

Executable system specification and a methodology for system partitioning and refinement into system-level components. Models and architectures, specification languages, translation to an HDL, system partitioning, design quality estimation, specification refinement into synthesizable models. Prerequisite: ECE 4240 and MATH 3120.

ECE 3780 Signal Processing 1 **Cr. Hrs. 4**

Introduction to signals and systems; spectral analysis (Fourier Series) of continuous-time periodic signals; spectral analysis of aperiodic signals (Fourier Transform); the impulse response and convolution operator;

frequency analysis of linear time-invariant systems; applications to filtering, communications systems, and biological systems; A/D conversion; sampling. Laboratory periods will be used to give students hands-on experience in programming many of the techniques covered in the theoretical parts of the course. Prerequisites: ECE 2262 or ECE 2260 and MATH 3132 or MATH 3100.

ECE 3790 Engineering Algorithms **Cr. Hrs. 4**

Numerical algorithms, optimization, statistical description of data random number generation, string processing, geometric algorithms, algorithm machines, dynamic programming and NP complete problems. Pre- or Corequisite: Comp 2140 and Math 3132 (or the former Math 3100).

4.9.2 Electrical and Computer Engineering Course Descriptions-4000 Level

ECE 4100 Introduction to Microelectronic Fabrication **Cr. Hrs. 4**

Introduction to the fabrication of integrated circuits (ICs). Emphasis is on silicon based devices. Topics include water preparation, oxidation, thin film deposition, diffusion and ion implantation, lithography, wet and dry etching and metallization. An introduction to MEMS and micromachining technology is given. Prerequisite: ECE 3670.

ECE 4140 Power Transmission Lines; Field Effects and Insulation Coordination **Cr. Hrs. 4**

AC and DC transmission line corona and its environmental effects. Electric field calculations; design methods to reduce electric field. Electrostatic and electromagnetic effects. Insulation design for power frequency, switching and lightning induced surges. Insulation coordination - conventional and probabilistic methods. Power apparatus testing - criteria and significance. Prerequisite: ECE 3720.

ECE 4150 Control Systems **Cr. Hrs. 4**

Principal methods of analysis and design for feedback control systems. Prerequisite: ECE 2160 and ECE 3780.

ECE 4160 Control Engineering **Cr. Hrs. 4**

Design of control systems by frequency domain and root locus method; state equations; introduction to nonlinear analysis. Prerequisite: ECE 4150.

ECE 4180 Introduction to Robotics **Cr. Hrs. 4**

This course provides fundamental concepts of robotics, including robot classification and applications, robot kinematics, sensor and actuators, sensor interfacing, motor control, trajectory planning, and robot programming. Prerequisites: ECE 4150 and (ECE 4240 or ECE 3730).

ECE 4200 Electric Filter Design **Cr. Hrs. 4**

Realizability theory, approximation of filtering characteristics, ladder networks and transmission zeros, active RC filter design with regard to sensitivity minimization, phase-shifting and time-delay filters, impulse response of filters, rudiments of digital filters. Prerequisite: ECE 3540 (or ECE 3530).

ECE 4240 Microprocessor Interfacing **Cr. Hrs. 4**

Interfacing of microcomputers to the external world: interfacing of I/O devices with minimum hardware and software; data acquisition with and without microprocessors; data communication, transmission and logging with small computers. Prerequisite: ECE 2160 and ECE 3610.

ECE 4250 Digital Communications **Cr. Hrs. 4**

Transmission of digital data; error rates, interference. Information measures, information rate and channel capacity. Coding. Prerequisite: ECE 4260 and ECE 3780.

ECE 4260 Communications Systems Cr. Hrs. 4

Development and applications of random processes. Analysis and comparison of modulation schemes: AM, FM, PM, PCM. Prerequisites: ECE 3780 and STAT 2220.

ECE 4270 Antennas Cr. Hrs. 4

Radiation fundamentals, linear antennas, point source arrays, aperture antennas, antenna impedance, antenna systems. Prerequisite: ECE 3590.

ECE 4280 Engineering Electromagnetics Cr. Hrs. 4

Plane, cylindrical and spherical waves, introduction to scattering and diffraction, waveguides, transmission line applications. Prerequisite: ECE 3590.

ECE 4290 Microwave Engineering Cr. Hrs. 4

Microwave circuit analysis; passive and active devices; communication system power budget and signal-to-noise ratio calculations. Prerequisite: ECE 3590.

ECE 4300 Electrical Energy Systems 1 Cr. Hrs. 4

Power system component modelling and computational methods for system problems such as load flow, faults, and stability. Prerequisite: ECE 3650 (or 024.365).

ECE 4310 Electrical Energy Systems 2 Cr. Hrs. 4

(Lab required) Generating stations. Power system stability and optimal operation. EHV-ac and HVDC power transmission. Power system protective relaying and reliability evaluation. Prerequisites: ECE 4150 and ECE 4300.

ECE 4360 High Voltage Engineering Cr. Hrs. 4

The course serves as an introduction to high voltage engineering, including basics of electrical breakdown, high voltage generation, high voltage test systems, measurement and analysis techniques as applied to power system apparatus, such as cables, insulators, transformers, and generators. Prerequisite: ECE 3580, ECE 3720.

ECE 4370 Power Electronics Cr. Hrs. 4

Thyristor device theory and operation, controlled rectifiers and line-commutated inverters, and forced commutation as applied to d/c choppers and a/c variable frequency and voltage inverters. Prerequisites: ECE 3720 and ECE 2160.

ECE 4390 Engineering Computations 4E Cr. Hrs. 4

Development and application of numerical methods for the solution of electrical and computer engineering problems. Optimization techniques. Finite difference, finite element and boundary element methods. Solution of large systems of linear and non-linear equations. Prerequisite: MATH 3132, ECE 2240.

ECE 4420 Digital Control Cr. Hrs. 4

Mathematical modelling of sampling switches. Z-transforms. Response and stability of systems involving sampling. Design of digital compensators. Prerequisites: ECE 4830 (or 024.483) or 024.373 and ECE 4150 (or 024.415).

ECE 4430 Design of RF Devices and Wireless Systems Cr.Hrs. 4

(Lab required) Techniques for the system level design, simulation, fabrication, and testing of RF devices and microwave circuits, including the basics of radar and RFID technology. May not be held with ECE 4860 when titled "Design of RF Devices and Wireless Systems." Prerequisite: ECE 3590.

ECE 4440 Computer Vision Cr. Hrs. 4

Image formation and sensing, image compression, degradation and restoration, geometrical and topological properties, pattern classification,

segmentation procedures, line-drawing images, texture analysis, 3-D image processing. Prerequisite: ECE 3780.

ECE 4450 Applied Computational Intelligence Cr.Hrs. 4

(Lab required) Computational intelligence and machine learning algorithms and their application in solving complex engineering problems. May not be held with COMP 4360 or ECE 4850 when titled "Applied Computational Intelligence." Prerequisite: MATH 3132.

ECE 4520 Simulation and Modelling Cr. Hrs. 4

Monte Carlo Methods, random processes, simulation of complex systems in the design of computer systems. Use of statistical interference and measures of performance in hardware and software systems. Prerequisites: STAT 2220 and COMP 2140.

ECE 4530 Parallel Processing Cr. Hrs. 4

Classification of parallel processors, SIMD vs. MIMD, multiprocessing Vs parallel processing, interconnection topology, communications, and node complexity, pipelining and vector processors, array processors, connection machines, multiprocessors, data flow and VLSI algorithmic machines. Prerequisites: COMP 2140 and ECE 3760.

ECE 4540 Wireless Networks Cr. Hrs. 4

Introduction to wireless communications systems, network architectures, protocols and applications. Topics include mobile computing systems, signals propagation, channel modelling, modulation, and networking standards. Prerequisite: ECE 3700 and ECE 3780.

ECE 4560 Modern Computing Systems Cr Hrs. 4

(Lab required) Advanced topics in computer architecture and organization, such as instruction set architecture, performance measures, pipeline processor design, data and instruction cache, data dependencies, branch prediction and penalties, superscalar architecture, multithreading, out-of-order execution, speculative execution, overlapping register windowing, and multiprocessor system design. May not be held with ECE 4850 when titled "Modern Computing Systems." Prerequisite: ECE 3610.

ECE 4580 Optoelectronics Cr. Hrs. 4

Basic theory of quantum mechanics; solution of Schrodinger equations; interaction of radiation with matter; masers and lasers; propagation, modulation, excitation and detection in optical waveguides; introduction to fiber and integrated optics. Prerequisite: ECE 3600.

ECE 4600 Group Design Project Cr. Hrs. 6

The engineering curriculum must culminate in a significant design experience which is based on the knowledge and skills acquired in earlier course work and which gives students an exposure to the concepts of team work and project management. Prerequisites: [ENG 2030 or ENG 2040 or the former ENG 2010] and ECE 3780 and [(ECE 3580 (or the former ECE 2130), ECE 3720, ECE 3670 and ECE 3610) or (ECE 3700, ECE 3760 and ECE 3740)].

ECE 4610 Biomedical Instrumentation and Signal Processing Cr. Hrs. 4

Introduction to biological systems and the application of engineering principles to medical problems. Students design systems to acquire and analyze biological signals in the laboratory. Content includes introduction to relevant physiology and anatomy of cells, skeletal muscles, heart and cardiovascular systems, human balance and biomechanics, recording and analyzing biological signals (ECG, EMG, respiratory sounds), design of instrumentation amplifiers for signal conditioning, medical instrumentation safety and health hazards. Prerequisites: ECE 2160 and ECE 3780.

ECE 4740 Digital Systems Implementation Cr. Hrs. 4

Implementation methodologies and technologies for digital systems, including VLSI implementations, PCB implementations, and rapid prototyping (FPGA). Prerequisite: ECE 4240. Not to be held with ECE 4500.

ECE 4830 Signal Processing 2 Cr. Hrs. 4

Representation of discrete-time signals and systems in the time and frequency domains; the z-transform; application to various discrete-time linear time-invariant systems; design of digital filters. Laboratory periods will be used to give students hands-on experience in programming many of the techniques covered in the theoretical parts of the course. Prerequisite: ECE 3780.

ECE 4850 Topics in Electrical and Computer Engineering 1 Cr. Hrs. 4

This course will cover contemporary topics in Electrical and Computer Engineering via lectures and laboratory sessions. The specific topics and a detailed course outline will be available at the time of registration. Prerequisite: Permission of the Department.

ECE 4860 Topics in Electrical and Computer Engineering 2 Cr. Hrs. 4

This course will cover contemporary topics in Electrical and Computer Engineering via lectures and laboratory sessions. The specific topics and a detailed course outline will be available at the time of registration. Prerequisite: Permission of the Department.

ECE 4870 Topics in Electrical and Computer Engineering 3 Cr. Hrs. 3

This lecture based course will cover contemporary topics in Electrical and Computer Engineering. The specific topics and a detailed course outline will be available at the time of registration. Prerequisite: Permission of the Department.

ECE 4880 Topics in Electrical and Computer Engineering 4 Cr. Hs. 3

This lecture based course will cover contemporary topics in Electrical and Computer Engineering. The Specific topics and a detailed course outline will be available at the time of registration. Prerequisite: Permission of the Department.

4.10 Mechanical Engineering

Head: Dr. David Kuhn, P.Eng., Head
Associate Head(s): Dr. Paul Labossiere, P. Eng., (Undergraduate Programs)
Dr. M. Tachie, P.Eng. (Graduate Programs)
Campus Address/General Office: E2-327 EITC
Telephone: 204 474 7358/ 6630
Fax: 204 275 7507
Website:
<http://umanitoba.ca/faculties/engineering/departments/mechanical>

The Department of Mechanical Engineering offers a fully accredited degree program. Students entering the Mechanical Engineering program may specialize with an option in Aerospace, or a stream in Aerospace, Materials, Solid Mechanics, or Thermofluids. Students are urged to consult appropriate program requirements shown for each option/stream.

The Mechanical Engineering program provides the education required by those who wish to practice in Mechanical Engineering that embraces, among other subdivisions, the design of mechanical devices and systems, manufacturing engineering and management, computer-aided design and computer-aided manufacturing, power generation and utilization, air conditioning, the material sciences, and the aeronautical sciences.

The Mechanical Engineering Program offers basic training in the sciences, mathematics and fundamental engineering subjects followed by more specialized discipline-related subjects. Students are allowed to choose technical electives to suit their career objectives and are also required to take complementary studies electives related to social issues.

Co-operative Education Programs

Please refer to SECTION 5: Co-operative Education and Industrial Internship Programs.

4.10.1 Mechanical Engineering Program

Preliminary Engineering Program - Common to all Engineering Programs. (See Section 4.2 for details.)

| Program Core Courses: | | |
|-----------------------|--|--------------|
| Course No. | Course Title | Credit Hours |
| CHEM 1310 | An Introduction to Physical Chemistry | 3 |
| ENG 3000 | Engineering Economics | 3 |
| ENG 3020 | Technology, Society, and the Future | 3 |
| ECE 3010 | Elements of Electric Machines and Digital Systems | 4 |
| ENG 2030 | Engineering Communication: Strategies for the Profession | 3 |
| or | | |
| ENG 2040 | Engineering Communication: Strategies, Practice and Design | 3 |
| MATH 2130 | Engineering Mathematical Analysis 1 | 3 |
| MATH 2132 | Engineering Mathematical Analysis 2 | 3 |
| MATH 3132 | Engineering Mathematical Analysis 3 | 3 |
| MECH 2112 | Fundamentals of Mechanical and Computer Aided Design | 5 |
| MECH 2150 | Mechanical Engineering Modelling and Numerical Methods | 4 |
| MECH 2202 | Thermodynamics | 4 |
| MECH 2222 | Mechanics of Materials | 4 |
| MECH 2262 | Fundamentals of Fluid Mechanics | 4 |
| MECH 2272 | Engineering Materials 1 | 4 |
| MECH 3170 | Project Management | 4 |
| MECH 3420 | Vibrations and Acoustics | 4 |
| MECH 3430 | Measurements and Control | 4 |
| MECH 3460 | Heat Transfer | 4 |
| MECH 3482 | Kinematics and Dynamics | 4 |

| | | |
|---------------------------------------|--|---|
| MECH 3492 | Fluid Mechanics and Applications | 4 |
| MECH 3502 | Stress Analysis and Design | 4 |
| MECH 3542 | Engineering Materials 2 | 4 |
| MECH 3652 | Machine Design | 4 |
| MECH 3982 | Mechanical Laboratories in Solid Mechanics | 2 |
| MECH 3992 | Mechanical Laboratories in Thermofluids | 2 |
| MECH 4860 | Engineering Design | 5 |
| PHYS 1070 | Physics 2: Waves and Modern Physics | 3 |
| STAT 2220 | Contemporary Statistics for Engineers | 3 |
| 5 Technical Electives (TE) | | 4 |
| 1 Complimentary Studies Elective (CE) | | 3 |

NOTES:

1. A student's selection and timetabling of electives are subject to the following conditions:

a. Only one complementary elective (CE) is required upon completion of Critical Thinking (PHIL 1290), which is recommended but not required; students may choose an alternate course from the Faculties of Arts or Management at the 1000 level or above, and one course from the approved list of Written English Courses for Engineering Students in the Preliminary Engineering Program (see Section 4.2).

b. The complementary elective (CE) can be any course at the 1000-level or above from the faculties of Arts or Management. However, ARTS 1110 Introduction to University may not be used for credit in the Faculty of Engineering.

2. For courses continuing through both terms, credit is given on completion of course.

3. A minimum of 20 credit hours of technical electives is required with 18 hours required if completing MECH 4162 the Mechanical Engineering Thesis Course (5 courses at 4 credit hours each or 3 courses at 4 credit hours each plus MECH 4162 at 6 credit hours).

4.10.2 Aerospace Option

| Complete all 3 TEs in LIST A. Choose the remaining two TEs from LIST B. Some courses in LIST B will be offered in alternating years. | | |
|--|---|--------------|
| Course No. | | Credit Hours |
| LIST A: | | |
| MECH 3520 | Aerodynamics | 4 |
| MECH 4182 | Aerospace Structures: Analysis and Design | 4 |
| MECH 4192 | Aerospace Materials and Manufacturing Processes | 4 |
| LIST B: | | |
| MECH 4200 | Gas Turbine Propulsion Systems | 4 |
| MECH 4452 | Aircraft Performance, Dynamics, and Design | 4 |
| MECH 3582 | Manufacturing Planning and Quality Control | 4 |

| | | |
|-----------|--|---|
| MECH 4482 | Applied Aerospace Instrumentation | 4 |
| MECH 4432 | Systems Engineering (with permission) | 4 |
| ENG 4110 | Operational Excellence (with permission) | 4 |

4.10.3 Aerospace Stream

Choose 3 TEs from the following 5 courses. Choose the remaining two TEs from the same stream, other TEs, or thesis. Some courses will be offered in alternating years.

| Course No. | Credit Hours | |
|------------|---|---|
| MECH 3520 | Aerodynamics | 4 |
| MECH 4182 | Aerospace Structures Analysis and Design | 4 |
| MECH 4192 | Aerospace Materials and Manufacturing Processes | 4 |
| MECH 4200 | Gas Turbine Propulsion Systems | 4 |
| MECH 4452 | Aircraft Dynamics and Performance | 4 |

4.10.4 Materials Stream

Choose 3 from the following 5 courses. Choose the remaining two TEs from the same stream, other TEs, or thesis. Some courses will be offered in alternating years.

| Course No. | Credit Hours | |
|------------|---|---|
| MECH 4192 | Aerospace Materials and Manufacturing Processes | 4 |
| MECH 4350 | Topics in Materials 1 | 4 |
| MECH 4360 | Topics in Materials 2 | 4 |
| MECH 4620 | Corrosion of Metals and Alloys | 4 |
| MECH 4870 | Fracture and Failure of Engineering Materials | 4 |

4.10.5 Solid Mechanics Stream

Choose 3 from the following 6 courses. Choose the remaining two TEs from the same stream, other TEs, or thesis. Some courses will be offered in alternating years.

| Course No. | Credit Hours | |
|------------|---|---|
| MECH 4182 | Aerospace Structures: Analysis and Design | 4 |
| MECH 4472 | Mechanical Vibration | 4 |
| MECH 4510 | Fundamentals of Finite Element Analysis | 4 |
| MECH 4532 | Advance Strength of Materials | 4 |
| MECH 4550 | Noise Control | 4 |
| MECH 4672 | Advanced Mechanical Design | 4 |

4.10.6 Thermofluids Stream

Choose 3 from the following 8 courses. Choose the remaining two TEs from the same stream, other TEs, or thesis. Some courses will be offered in alternating years.

| Course No. | Credit Hours | |
|------------|--|---|
| MECH 4292 | IC Engines | 4 |
| MECH 4412 | Heating, Venting, and Air Conditioning | 4 |
| MECH 4560 | Selected Topics in Fluid Mechanics 4M | 4 |
| MECH 4680 | Energy Conversion Utilization | 4 |
| MECH 4692 | Renewable Energy | 4 |
| MECH 4694 | Advanced Topics in Heat Transfer | 4 |

| | | |
|-----------|---------------------------------------|---|
| MECH 4702 | Design of Thermal Systems | 4 |
| MECH 4822 | Numerical Heat Transfer in Fluid Flow | 4 |

4.10.7 Technical Electives in Mechanical Engineering

| | | |
|-----------|---|---|
| MECH 3520 | Aerodynamics | 4 |
| MECH 3550 | Robotics and Computer Numerical Control | 4 |
| MECH 3562 | Introduction to Optimization | 4 |
| MECH 3570 | Manufacturing Automation | 4 |
| MECH 3582 | Manufacturing Planning and Quality Control | 4 |
| MECH 3592 | Simulation Modelling and Facilities Planning | 4 |
| MECH 4162 | Thesis (full year course) (See Note 2) | 6 |
| MECH 4182 | Aerospace Structures: Analysis and Design | 4 |
| MECH 4192 | Aerospace Materials and Manufacturing Processes | 4 |
| MECH 4200 | Gas Turbine Propulsion Systems | 4 |
| MECH 4240 | Design for Manufacturing | 4 |
| MECH 4292 | IC Engines | 4 |
| MECH 4310 | Contemporary Topics in Mechanical Engineering 1 | 4 |
| MECH 4322 | Contemporary Topics in Mechanical Engineering 2 | 4 |
| MECH 4330 | Contemporary Topics in Manufacturing Engineering 1 | 4 |
| MECH 4342 | Contemporary Topics in Manufacturing Engineering 2 | 4 |
| MECH 4350 | Topics in Materials 1 | 4 |
| MECH 4360 | Topics in Materials 2 | 4 |
| MECH 4412 | Heating, Venting, and Air Conditioning | 4 |
| MECH 4432 | Systems Engineering | 4 |
| MECH 4452 | Aircraft Performance, Dynamics, and Design | 4 |
| MECH 4472 | Mechanical Vibration | 4 |
| MECH 4482 | Applied Aerospace Instrumentation | 4 |
| MECH 4510 | Fundamentals of Finite Element Analysis | 4 |
| MECH 4532 | Advanced Strength of Materials | 4 |
| MECH 4542 | Principles of Turbomachinery | 4 |
| MECH 4550 | Noise Control | 4 |
| MECH 4560 | Selected Topics in Fluid Mechanics 4M | 4 |
| MECH 4582 | Vehicle Testing, Condition Monitoring, and Fault Analysis | 4 |
| MECH 4620 | Corrosion of Metals and Alloys | 4 |
| MECH 4672 | Advanced Mechanical Design | 4 |
| MECH 4680 | Energy Conversion Utilization | 4 |
| MECH 4692 | Renewable Energy | 4 |
| MECH 4694 | Advanced Topics in Heat Transfer | 4 |
| MECH 4702 | Design of Thermal Systems | 4 |
| MECH 4812 | Automotive Engineering | 4 |
| MECH 4822 | Numerical Heat Transfer in Fluid Flow | 4 |

| | | |
|-----------|---|---|
| MECH 4832 | Biomaterials in Biomedical Engineering | 4 |
| MECH 4870 | Fracture and Failure of Engineering Materials | 4 |
| MECH 4900 | Mechatronics System Design | 4 |

NOTES:

1. The Department of Mechanical Engineering may not be able to offer all technical electives listed above. Students are urged to consult the Mechanical Engineering office for a current list of technical electives.

2. Students must be in their graduating year to register for MECH 4162 Thesis.

4.10.8 Mechanical Engineering Course Descriptions-2000 Level

MECH 2112 Fundamentals of Mechanical and Computer Aided Design Cr. Hrs. 5

(Lab required) Provide instruction on the application of computer aided design software packages. The students will work in groups in the design and development of a product using CAD packages and digital fabrication technologies. May not be held for credit with CIVL 2830, the former ENG 2020, ENG 2022, MECH 2010, or MECH 2012. Prerequisite: ENG 1430.

MECH 2150 Mechanical Engineering Modelling and Numerical Methods Cr. Hrs. 4

A case-study-based introduction to modelling and numerical methods with mechanical engineering applications. Selected problems, primarily from second and third year mechanical engineering course material, will be used to teach modelling. Derivation and application of appropriate numerical methods will be performed to solve the case study problems using a hands-on approach. A high level computer language and accompanying toolkit/built-in functions will be introduced for solution of the cases. May not be held for credit with MATH 2120. Prerequisites: COMP 1012 or COMP 1013. Pre- or Corequisites: MATH 2132 and (MECH 2262 or BIOE 2790 or CIVL 2790).

MECH 2202 Thermodynamics Cr. Hrs. 4

Cycles, transient flow processes, entropy, gas mixtures, psychrometry combustion. Prerequisites: ENG 1460, (MATH 1500 or MATH 1510 and MATH 1700 or MATH 1710). Not to be held for credit with MECH 2200.

MECH 2222 Mechanics of Materials Cr. Hs. 4

Topics covered in this course include: axial and torsional loading, stress-strain and deformation in statically determinate/indeterminate systems, thermally induced stress, and stresses in beams (including reinforced beams) under pure bending and bending with shear. The mechanical properties of materials under various loading modes will be addressed. Prerequisites: [PHYS 1050] and [ENG 1440 or ENG 1441 (ENG 1350)] and COMP 1012 and [MATH 1710 or MATH 1700].

MECH 2262 Fundamentals of Fluid Mechanics Cr. Hs. 4

Fundamental concepts used in the analysis of fluid behaviour, pressure in stationary fluids, forces on submerged surfaces, buoyancy, integral methods, Bernoulli equation, pipeline analysis. May not be held for credit with the former MECH 2260. Prerequisites: PHYS 1050 and ENG 1440 and ENG 1460 and MATH 2130 (or the former MATH 2110). Pre or Co requisite: MATH 2132 (or the former MATH 2100).

MECH 2272 Engineering Materials 1 Cr. Hrs. 4

Introduction to engineering materials; defects, strengthening mechanisms, and plasticity in engineering metals and alloys; fundamentals and application of heat treatment of metallic materials including topics such as diffusion, phase diagram, phase transformation, and thermal processing; mechanical properties of engineering metallic materials and their relationship to structure, defects, various strengthening mechanisms, and processing; structure of non-metallic polymers and ceramics. Prerequisites;

[CHEM 2240 or CHEM 1310] and [MECH 2222 (or MECH 2220)]. May not be held for credit with MECH 2270, MECH 2290 or MECH 3540.

4.10.9 Mechanical Engineering Course Descriptions-3000 Level

MECH 3170 Project Management **Cr. Hrs. 4**

(Lab required) Topics covered include project planning, scheduling, resource allocation, process analysis, layout and control. The course will make use of industrial projects for developing a strong design and analytical approach pertinent to project management. May not be held with the former MECH 4170. Prerequisite: MECH 2112 (or the former MECH 2010 or the former MECH 2012) or CIVL 2830.

MECH 3420 Vibrations and Acoustics **Cr. Hrs. 4**

Vibrations and computer simulations of single-degree-of-freedom systems, viscous and friction damping, MD of systems and modal analysis, measurement and sources of noise, noise control. Prerequisites: MECH 3482 (formerly MECH 2120 and MECH 3480), and MATH 3132 (formerly MATH 3100).

MECH 3430 Measurements and Control **Cr. Hrs. 4**

Mathematical modelling of mechanical systems. Feedback systems and stability. Digital control; analog to digital and digital to analog control systems. Prerequisites: MATH 3132 (or MATH 3100) and ENG 1450 (or 130.118).

MECH 3460 Heat Transfer **Cr. Hrs. 4**

(Lab required) This is the first course in heat transfer. Topics covered include fundamental concepts relevant to heat transfer analysis, steady-state and transient conduction, forced and free convection, external and internal flows, heat exchangers and fundamentals of radiation. May not be held for credit with the former MECH 3470. Prerequisites: MECH 2150, MATH 3132 (or the former MATH 3100) and ENG 1460. Pre- or corequisite: MECH 3492 (or the former MECH 3490).

MECH 3482 Kinematics and Dynamics **Cr. Hrs. 4**

Fundamentals of 2D and 3D rigid body motions (kinematics) and the forces/moments (kinetics) needed to produce such motions. Applications will emphasize elements of machine design. May not be held for credit with MECH 2120 or MECH 3480. Prerequisites: PHYS 1050 and [ENG 1440 or ENG 1441] and COMP 1012 and [MATH 1710 or MATH 1700].

MECH 3492 Fluid Mechanics and Applications **Cr. Hrs. 4**

(Lab required) The angular momentum principle, introduction to differential analysis of fluid motion, internal and external incompressible viscous flow, fluid machinery and multiple-path systems, fluid coupling and torque couplings and torque converters. May not be held with the former MECH 3490. Prerequisite: MECH 2262 (or the former MECH 2260). Pre- or Corequisite: MECH 2150 or CIVL 3590 or MATH 2120.

MECH 3502 Stress Analysis and Design **Cr. Hrs. 4**

Strength and stability of columns, torsion of thin-walled members, unsymmetric loading and shear centres, beam deflection and energy methods. Prerequisites: MECH 2222 (formerly MECH 2220), and MATH 2130 (formerly MATH 2110). May not be held for credit with MECH 2220 or MECH 3500.

MECH 3520 Aerodynamics **Cr. Hrs. 4**

Aeronautical definitions, compressible flow, plane normal shock waves, Mach. no. and shock waves in two-dimensional flow, potential flow theory in two-dimensional and axisymmetric flows. Two-dimensional wing theory, finite wing theory panel methods, elements of boundary layer theory. Compressibility and wings, wing design, flow control. Prerequisite: MECH 3492 (MECH 3490).

MECH 3542 Engineering Materials 2 **Cr. Hrs. 4**

Mechanical properties of engineering non-metallic materials such as polymers, ceramics and composites, and their relationship to structure and processing; introduction to various shaping and joining processes used in manufacturing, their advantages and limitations; selection and application of engineering materials. Prerequisites: MECH 2272 (formerly MECH 2270). May not be held for credit with MECH 2270, MECH 2290 or MECH 3540.

MECH 3550 Robotics and Computer Numerical Control **Cr. Hrs. 4**

(Lab required) This course builds up a foundation in the area of Computer Aided Manufacturing (CAM) such as computer numerically controlled machine tools and robotics. Intense hands on experience is provided in the laboratory sessions on part programming using Computer Aided Design (CAD) packages and robots to demonstrate application in the area of CAM. Several case studies and manufacturing applications will be discussed. Prerequisite: MECH 2112 (or the former MECH 2010 or the former MECH 2012) or CIVL 2830.

MECH 3562 Introduction to Optimization **Cr. Hrs. 4**

(Lab required) The objective of this course is to develop the ability to formulate and analyze problems that will be encountered in a manufacturing system. The skills acquired will allow the students to approach problems from an optimization perspective. The students will be provided experience in related software packages. May not be held for credit with the former MECH 3560. Prerequisites: (MECH 2112 or the former MECH 2010 or the former MECH 2012 or CIVL 2830) and STAT 2220.

MECH 3570 Manufacturing Automation **Cr. Hrs. 4**

This course builds upon the foundation developed in a previous course: namely Robotics and Computer Numerical Control. The course covers a wide variety of topics in the area of computer controlled automation. The students are provided with hands on experience in design for automation. It will synthesize several aspects associated with integrated operation of computer controlled automated devices. Prerequisite: MECH 3550.

MECH 3582 Manufacturing Planning and Quality Control **Cr. Hrs. 4**

(Lab required) The course covers topics such as: group technology, just-in-time, computer aided process planning, statistical process control and manufacturing planning and control. Issues related to the integration of several areas that fall within CIM are emphasized. Systems approach is introduced. May not be held with the former MECH 3580. Prerequisite: MECH 2112 (or the former MECH 2010 or the former MECH 2012) or CIVL 2830.

MECH 3592 Simulation Modeling and Facility Planning **Cr. Hrs. 4**

(Lab required) The objective of this course is to introduce simulation for manufacturing operations and the concepts of facilities location and layout. The students will learn how to program WITNESS, a simulation language, and through simulation, explore the effects of facility planning; resource availability e.g. machines and quality related problems on manufacturing productivity and timing. May not be held with MECH 3590. Prerequisite: MECH 2112 (or the former MECH 2010 or the former MECH 2012) or CIVL 2830.

MECH 3602 Manufacturing Process Fundamentals **Cr. Hrs. 4**

(Lab required) This course will give students hands on experience with numerous manufacturing processes, machines and systems. Using CNC mills, lathes, conventional machine shop equipment and hand tools, the students will manufacture mechanical components, assemble them and troubleshoot any problems. The object is to provide students with hands-on exposure to the application of basic manufacturing process tools. May not be held for credit with MECH 3600. Prerequisite: MECH 2112 (or the former MECH 2012 or the former MECH 2010) or CIVL 2830.

MECH 3652 Machine Design Cr. Hrs. 4

(Lab required) Stress and failure analysis and the design of machine elements; shafts and couplings, threaded fasteners and power screws, clutches and power transmission components; spur, bevel, worm and helical gears; lubrication, journal and roller bearings. May not be held for credit with MECH 4650. Prerequisites: (MECH 3482 or the former MECH 2120) and (MECH 3502 or the former MECH 3500).

MECH 3982 Mechanical Laboratories in Solid Mechanics Cr. Hrs. 2

(Lab required) Laboratory course on topics that compliment and reinforce concepts developed in second and third year mechanical engineering courses in mechanics of solids and structures, and vibrations. May not be held for credit with the former MECH 3980, MECH 4980, or MECH 4990. Prerequisites: (ENG 2030 or ENG 2040 or the former ENG 2010) and (MECH 2222 or the former MECH 2220). Pre- or corequisites: MECH 3420 and (MECH 3502 or the former MECH 3500).

MECH 3992 Mechanical Laboratories in Thermofluids Cr. Hs. 2

(Lab required) Laboratory course on topics that compliment and reinforce concepts developed in second and third year mechanical engineering courses in thermofluids. May not be held for credit with the former MECH 3980, MECH 4980, or MECH 4990. Prerequisites: (ENG 2030 or ENG 2040 or the former ENG 2010), (MECH 2202 or the former MECH 2200), and (MECH 2262 or the former MECH 2260). Pre- or corequisites: MECH 3460 or the former MECH 3470.

4.10.10 Mechanical Engineering Course Descriptions-4000 Level**MECH 4162 Thesis Cr. Hrs. 6**

This course will give students the opportunity to gain research or design experience in their area of interest. Thesis topics must be approved by the head of the department or designate. Restriction: Only students with a year class distinction of 4 or higher in Mechanical Engineering may register for this course. Prerequisites: ENG 2030 or ENG 2040 (or the former ENG 2010) and eligible to graduate. May not be held for credit with MECH 4160.

MECH 4182 Aerospace Structures: Analysis and Design Cr. Hrs. 4

Methodology and techniques for design of aerospace structures and components to preclude failure with minimum weight, cost and resource consumption. Analysis of structural, air, gust and maneuver loads. May not be held for credit with MECH 4180. Prerequisites: MECH 3502 (or MECH 3500).

MECH 4192 Aerospace Materials and Manufacturing Processes Cr. Hrs. 4

Properties of aerospace structural materials including glass and graphite fibre composites, light metal alloys and high strength steels. Properties of high temperature materials; superalloys ceramics, intermetallic compounds, metal matrix composites. Specialized methods for manufacture of these materials. Prerequisites: MECH 3542 (formerly MECH 3540) May not be held for credit with MECH 4190.

MECH 4200 Gas Turbine Propulsion Systems Cr. Hrs. 4

Gas turbine systems, shaft power cycles, gas turbine propulsion cycles, centrifugal compressors, axial flow compressors, combustion systems, design performance predictions, off-design operations and transient behaviour of gas turbines. Design performance predictions. Prerequisites: MECH 2202 (or MECH 2200) and MECH 3520.

MECH 4292 IC Engines Cr. Hrs. 4

Thermodynamics of internal combustion engines and engine cycles; fuels and fuel systems; combustion; emission control systems; electronic engine controls and strategies; intake and exhaust systems; camshafts and valve train dynamics; balancing; performance and testing. Prerequisite: MECH

2202 (or the former MECH 2200). May not be held for credit with MECH 4290.

MECH 4310 Contemporary Topics in Mechanical Engineering 1 Cr. Hrs. 4

This course will cover contemporary topics in Mechanical Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Permission of the department.

MECH 4322 Contemporary Topics in Mechanical Engineering II Cr. Hrs. 4

This course will cover contemporary topics in Mechanical Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Departmental Permission. May not be held for credit with MECH 4320

MECH 4330 Contemporary Topics in Manufacturing Engineering 1 Cr. Hrs. 4

This course will cover contemporary topics in Manufacturing Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Permission of the department.

MECH 4342 Contemporary Topics in Manufacturing Engineering II Cr. Hrs. 4

This course will cover contemporary topics in Manufacturing Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session in which the course will be offered. Prerequisite: Departmental Permission. May not be held for credit with MECH 4340

MECH 4350 Topics in Engineering Material 1 Cr. Hrs. 4

This course will cover contemporary topics in engineering materials. The specific topics and a detailed outline will be available prior to the start of registration period for the session in which the course will be offered. Prerequisite: Departmental Permission.

MECH 4360 Topics in Engineering Materials 2 Cr. Hrs. 4

This course will cover contemporary topics in engineering materials. The specific topics and a detailed outline will be available prior to the start of registration period for the session in which the course will be offered. Prerequisite: Departmental Permission.

MECH 4412 Heating, Ventilation and Air Conditioning Cr. Hrs. 4

Psychometric processes, equipment selection, and the design of heating and cooling systems for typical buildings. Prerequisite: MECH 2202 (formerly MECH 2200). Not to be held for credit with MECH 4410.

MECH 4432 Systems Engineering Cr. Hrs. 4

(Lab required) The engineering support process as applied to the entire product life cycle from requirements definition to disposal. Focus on the system as a whole; from the outside, its interaction with its environment and other systems; and from the inside, its design requirements and implementation. May not be held with MECH 4342 when titled "Systems Engineering." Restricted to students in third year or above.

MECH 4452 Aircraft Performance, Dynamics and Design Cr. Hs. 4

A study of the morphology of aerospace vehicles; basic components and their functions, Aircraft performance; drag, thrust, lift, basics of orbital

mechanics. Prerequisites: MECH 3520. May not be held for credit with MECH 4450.

MECH 4472 Mechanical Vibration Cr. Hrs. 4

Nonlinear Vibrations: mathematical theory for lumped vibratory systems; response of systems to nonharmonic excitation; solutions by Laplace transforms and Fourier analysis; introduction to the matrix formulation of vibration problems and vibration of distributed systems. Prerequisite: MECH 3420.

MECH 4482 Applied Aerospace Instrumentation Cr. Hrs. 4

(Lab required) Principles and practices of test and measurement system design and analysis for aerospace applications. Topics include transducers, signal conditioning, data acquisition and analysis, uncertainty analysis, calibration and correlation, system design and maintenance, and piping and instrumentation diagrams, and an introduction to LabVIEW software. This course may include a field trip component. May not be held for credit with MECH 4322 when titled "Applied Instrumentation". Prerequisites: MECH 3430 and [(MECH 3982 and MECH 3992) or the former MECH 3980 or (the former MECH 4980 and the former MECH 4990)].

MECH 4510 Fundamentals of Finite Element Analysis Cr. Hrs. 4

(Lab required) Fundamentals of the Finite Element Method, basic components in a Finite Element procedure, application of FEM to solve engineering problems and use of commercial software. Prerequisites: (MECH 2150 or MATH 2120) and (MATH 3132 or MATH 3100) and MECH 2222 (or the former MECH 2220).

MECH 4532 Advanced Strength of Materials Cr. Hrs. 4

Stress and strain in three dimensions; thick walled cylinders, beams of elastic foundations, unsymmetrical bending and sheet-stringer construction, curved beams. Additional topics such as the analysis of fibre-composite material, techniques in experimental stress analysis and studies in metallics fatigue may be presented prerequisite: MECH 3502 (formerly MECH 3500). May not be held for credit with MECH 4530.

MECH 4542 Principles of Turbomachinery Cr. Hrs. 4

(Lab required) Principles and design of turbomachinery, including fluid dynamics, thermodynamics and engineering applications. A variety of turbomachines are introduced, including hydraulic pumps and turbines, centrifugal compressors and fans, and axial flow compressors and fans. May not be held for credit with MECH 4310 when titled "Turbomachinery." Prerequisites: MECH 2202 (or the former MECH 2200) and MECH 3492 (or the former MECH 3490).

MECH 4550 Noise Control Cr. Hrs. 4

An elective course open to all branches of Engineering; a recommended course for students taking Air Conditioning. Wave propagation, transducers and measurement techniques, psycho-acoustic criteria, legislation, techniques of noise and vibration control.

MECH 4560 Selected Topics in Fluid Mechanics 4M Cr. Hrs. 4

(Lab required) Topics may include: wind tunnel design; experimental techniques; some exact solutions of the conservation equations; fundamentals of turbulence; secondary flows; fluidization; elementary meteorology; fluidics; other topics of current interest. Prerequisites: [MATH 3132 or the former MATH 3100] and [MECH 3492 or the former MECH 3490].

MECH 4582 Vehicle Testing, Condition Monitoring, and Fault Analysis Cr. Hrs. 4

(Lab required) General testing and fault diagnostic techniques for ground vehicles including common signal analysis techniques, vibration testing and fault analysis methods. Basic knowledge of vibration based condition monitoring including the basic theory and applications of engineering

tools, damage analysis and detection, and modal analysis. May not be held with MECH 4322 when titled "Ground Vehicle Testing Technology." Prerequisite: MECH 3420.

MECH 4620 Corrosion of Metals and Alloys Cr. Hrs. 4

Electrochemical basis of corrosion, corrosion prevention by cathodic protection, inhibitors, alloying and heat treatment, passivation, stress corrosion cracking, corrosion fatigue; ionic and electronic conduction; oxidation of metals and alloys. Prerequisite: MECH 3542 (or MECH 3540).

MECH 4672 Advanced Mechanism Design Cr. Hrs. 4

Graphical, analytical and computer techniques for the analysis and design of mechanisms to produce a desired set of motion characteristics; design of linkages, double lever, slider and dwell mechanism; cognate linkages. Kinetic synthesis tasks function generation, path generation and motion generation. Prerequisite: MECH 3482 (formerly MECH 2120). May not be held for credit with MECH 4670.

MECH 4680 Energy Conservation and Utilization Cr. Hrs. 4

Energy supply and demand, advanced thermodynamic cycles, conventional energy sources, alternative energy, conservation of energy, environmental considerations. Prerequisite: MECH 2202 (formerly MECH 2200).

MECH 4690 Topics in Heat Transfer and Energy Cr. Hrs. 3

Some combination of the following advanced topics: conduction heat transfer, radiation, heat-exchanger design, two-phase phenomena, fluidization, alternative energy, energy conservation. Other topics of current interest may also be included. Prerequisite: MECH 3460 (or MECH 3470).

MECH 4692 Renewable Energy Cr. Hrs. 4

Introduction to renewable energy systems, current and future global energy issues and the need for renewable energy applications, and distributed renewable energy generation. Renewable energy systems that will be considered are: solar heat, solar PV, biomass heat and power, hydro power, and wind power. Students will develop simple numerical models of renewable energy systems. Prerequisites MECH 2202 (formerly MECH 2200) and MECH 2262 (formerly MECH 2260). Pre- or Co requisite; MECH 3460 (formerly MECH 3470).

MECH 4694 Advanced Topics in Heat Transfer Cr. Hrs. 4

Some combination of the following advanced topics; conduction heat transfer radiation, heat-exchanger design, two-phase phenomena, fluidization, alternative energy, energy conservation. Other topics of current interest may also be included. Prerequisite: MECH 3460 (or MECH 3470). May not be held for credit with MECH 4690.

MECH 4702 Design of Thermal Systems Cr. Hrs. 4

Modeling of thermal systems; system simulation; design applications of optimization methods: Lagrange multipliers, search methods, and dynamic geometric and linear programming. Prerequisite: MECH 2202 (or MECH 2200). May not be held for credit with MECH 4700.

MECH 4812 Automotive Engineering Cr. Hrs. 4

Introduction to vehicle dynamics; power trains; braking systems; road loads, aerodynamics and fuel efficiency; ride and suspension systems; steering systems; tire properties and dynamics; structural analysis and crash safety; performance vehicle design. Prerequisite: MECH 3502 (or the former MECH 3500). Pre or Corequisite: MECH 3420 May not be held for credit with former MECH 4810.

MECH 4822 Numerical Heat Transfer in Fluid Flow Cr. Hrs. 4

(Lab required) General conservation equations; specific forms of the conservation equations and energy equations; finite difference methods:

one dimensional steady problems, one dimensional unsteady problems, two dimensional steady problems; two dimensional unsteady problems; convection, solution for the flow fluid. May not be held for credit with former MECH 4820. Prerequisites: (MATH 3132 or the former MATH 3100), (MECH 2150 or MATH 2120), MATH 3460 (or the former MECH 3470) and MECH 3492 (or the former MECH 3490).

MECH 4832 Biomaterials in Biomedical Engineering Cr. Hrs. 4

(Lab required) Biomechanics and design of hard biomaterials and soft biomaterials and their applications in orthopedics, cardiovascular and neural systems. Course includes fundamental biological concepts, materials science fundamentals and medical/clinical concerns. Prerequisites: MECH 3542 (or the former MECH 3540) or (BIOE and BIOE 3590).

MECH 4860 Engineering Design Cr. Hrs. 5

(Lab required) Design projects; teams of students prepare written and oral design reports on solutions to specific problems from Manitoba industries; series of seminars by invited speakers. Prerequisite: eligibility for graduation in the current academic year or registered in third year Industrial Cooperative Education Program. Prerequisites: (ENG 2030 or ENG 2040 or the former ENG 2010) and (MECH 3652 or the former MECH 4650).

MECH 4870 Fracture and Failure of Engineering Materials Cr. Hrs. 4

Criteria for crack initiation and propagation leading to structural failure. Fracture mechanics and fracture toughness phenomena. Effects of structure geometry, loading rate, environment, temperature, composition and microstructure on material integrity. Prerequisite: MECH 3542 (or MECH 3540).

MECH 4900 Mechatronics System Design Cr. Hrs. 4

The course covers topics in the analysis of control systems and components with the goal to provide students with tools and an understanding of issues related to integrating mechanical, electronic and software components towards building mechatronic devices. Hands-on-experience is provided in the laboratory sessions on simulation and actual computer control of various devices. Problems considered would include application to fluid power systems, systems integration and validation. The focus is placed on learning to work with real hardware. Prerequisite: MECH 3430.

MECH 4930 Mechanical Engineering Industry Internship (IIP) Cr. Hrs. 0

Supervised work experience normally of 12-16 months duration, concluded by a work report. (Pass/Fail grade only.)

4.11 Internationally Educated Engineers Qualification Program (IEEQ) – Post-Baccalaureate Diploma in Engineering

Campus Address/General Office:

Email Address: ieeq@umanitoba.ca

Telephone: 204 474 8961

Fax: 204 474 7312

Website: <http://umanitoba.ca/engineering/ieeq>

4.11.1 Introduction

The Faculty of Engineering offers the IEEQ Program, designed for international engineering graduates (IEGs) pursuing foreign credentials recognition with Engineers Geoscientists Manitoba (www.enggeomb.ca), the regulatory body for engineering in Manitoba. Through the IEEQ Program, IEGs:

- Meet requirements for academic qualification with Engineers Geoscientists Manitoba and, upon successful completion of IEEQ Program requirements, become registered with Engineers Geoscientists Manitoba as Engineering Intern; and,

- May earn a Post-Baccalaureate Diploma in Engineering from the University of Manitoba.

The provisions of Section 3: Academic Regulations apply to all students. In addition, the IEEQ Program has regulations and requirements that apply specifically to its students that may differ from the academic regulations in Section 3. Details on regulations and requirements not included below are provided to students upon their admission into the IEEQ Program, and can be found on-line at www.umanitoba.ca/engineering/ieeq

4.11.2 Admission Requirements and Application Procedures

The IEEQ Program can accept applicants whose Confirmatory Exam assignments by Engineers Geoscientists Manitoba correspond to one of the five accredited undergraduate engineering programs offered in the Faculty of Engineering.

Program entrance is in September of any given year. In order to be admitted to the IEEQ Program, the student must:

Be an IEG with an earned undergraduate engineering degree obtained from a university outside of Canada;

Have obtained the results of an *Assessment of Academic Credentials* from Engineers Geoscientists Manitoba, with a result of five or fewer Confirmatory Exams assigned by Engineers Geoscientists Manitoba in order to be considered academically qualified;

Be a Permanent Resident or Canadian Citizen; and,

Demonstrate proficiency in the English language by meeting the minimum standard in one of the University of Manitoba approved proficiency tests or achieve Canadian Language Benchmark (CLB) Placement Test scores of level eight (8) and no more than one seven (7) in the four language areas (for example, 8/8/8/7 or similar combination).

4.11.3 Program Requirements

The Post-Baccalaureate Diploma in Engineering consists of a minimum of 24 hours of coursework, subject to the following regulations:

ENG 3000 Engineering Economics; and

ENG 4020 Professional Engineering Practice in Manitoba; and

ENG 4800 Co-operative Work- IEEQ; and

Technical courses are taken from the 3000 and 4000 levels of the student's engineering discipline, corresponding to the topic areas of Confirmatory Exams assigned by Engineers Geoscientists Manitoba.

The total number of courses required in the IEEQ Program is generally as shown in the table below:

4.11.1 Introduction

| Number of Technical Confirmatory Exams ¹ Assigned by EGM | Number of courses in IEEQ ² |
|---|--|
| One (1) or two (2) | 5 |
| Three (3) | 7 |
| Four (4) | 9 |
| Five (5) | 11 |

Notes:

1. Technical exams refer to exams assigned from Group A or Group B of the Discipline Examinations (see <https://engineerscanada.ca/become-an-engineer/examination-syllabus>). Technical Exams do not include exams assigned from the Basic Studies (BS) or Complementary Studies (CS) syllabi, such as 11-CS-1 Engineering Economics

2. Including ENG 3000 Engineering Economics, ENG 4020 Professional Engineering Practice in Manitoba, and ENG 4800 Co-operative Work- IEEQ.

If the courses required in the IEEQ program total less than 24 credit hours, the student may apply for a transfer of credit from the original earned undergraduate engineering degree (obtained outside of Canada).

All courses must be completed with a grade of C or better. Failed courses may only be repeated once, and are subject to the limits outlined in the IEEQ Student Handbook and on the IEEQ Program website.

4.11.4 Maximum Time Limits

Students can choose a full-time or part-time option in the IEEQ Program. Students will be asked to declare their status upon their acceptance to the IEEQ Program.

| Number of courses in IEEQ | Full-time | Part-time |
|---------------------------|-----------|-----------|
| Seven (7) or fewer | 1 yrs | 2 yrs |
| More than seven (7) | 2 yrs | 3 yrs |

4.11.5 Course Descriptions for IEEQ

ENG 3000 Engineering Economics

Cr. Hrs. 3

An introduction to the economic aspects of engineering design. Time value of money and discounted cash flow calculations. Comparing costs of alternative designs. Replacement analysis and life-cycle costing. Public sector engineering economy studies. Before and after tax analyses. Applications in cost-estimating and asset management systems. Basic accounting. Accommodating capital limitations. Dealing with inflation. Risk management and uncertainty. Restricted to students registered in the Faculty of Engineering. May not be held with CIVL 4050.

ENG 4020 Professional Engineering Practice in Manitoba

Cr. Hrs. 4

An introduction to the practice of professional engineering in Manitoba. Professional culture, organization and regulation; industry topics; engineering ethics and law. Emphasis on professional communication development. Restricted to students enrolled in the IEEQ Program. May not be held with ENG 4010.

ENG 4800 Co-operative Work 1

Cr. Hrs. 1

Work assignment in business, industry, or government for the Faculty of Engineering co-operative education stream students. Requires submission of a written report covering the work completed during the four-month professional assignment. It is assumed that courses ENG 4800, ENG 4810, ENG 4820, ENG 4830, ENG 4840 will be taken in order. Those registering for this course must have applied for and been accepted into the Faculty of Engineering co-operative stream. Not to be held with BIOE 2000, CIVL 2900, ECE 4720, MECH 2050 or ENG 4012. This course is graded on a pass/fail basis.

4.12 Approved Program Variations

While it is the expectation that students will complete their individual programs as set-out in the preceding sections 4.1-4.11 it is recognized that, in certain limited circumstances, course substitutions approved by the Faculty of Engineering may be made where the content of alternative course(s) have been deemed to be equivalent.

Students are required to consult with their corresponding program advisors and declare their intention of taking the alternate course(s). The calculations of TGPAs must include the alternate course(s), and they cannot be excluded from the calculation of the TGPAs.

The following is a list of approved substitutions:

- The combination of STAT 1000 and STAT 2000 is considered equivalent to STAT 2220

SECTION 5: Co-operative Education and Industrial Internship Programs

Contact and Program Information

Director: Carolyn Geddert, P.Eng., Engineer-in-Residence

Tel. 204 474 8948

Email carolyn.geddert@umanitoba.ca

Program Administrator: Megan Johnson

Tel. 204 480 1069

Email megan.johnson@umanitoba.ca

The Faculty of Engineering offers a Co-operative education and Industrial Internship Program (Co-op/IIP) designed to complement and enrich the academic program with work experience. The work terms provide students with practical experience, assistance in financing their education, and guidance for future career specialization.

A student in good academic standing, who will have successfully completed 58 credit hours of their academic program of study by the end of the session, may apply to participate in the Co-operative and Industrial Internship Program. Applicants will complete an application package, be interviewed and attend mandatory workshops before they are approved by their Co-op/IIP coordinator. Final acceptance into the program will be confirmed in writing by the Co-op/IIP office.

In addition to students following regular departmental programs, Internationally Educated Engineers Qualification (IEEQ) Program participants may also be approved for participation in Co-op/IIP upon written approval of the IEEQ Director.

Progress of all students through Co-op/IIP the program is dependent upon the student obtaining a job placement confirmed as appropriate by the Co-op/IIP office.

Upon securing a job placement, Engineering students enrol in the course ENG 4800, Engineering Cooperative Education Work Term 1 (and subsequently, ENG 4810, ENG 4820, ENG 4830, ENG 4840) for the specific work term of employment.

Students who are unable to maintain the standards of the Co-op/IIP will be transferred back into the regular program.

The course and grade requirements for completion of the Co-op/IIP are the same as those required for the regular program. However, in order to satisfy course prerequisite requirements, timetables may differ from the regular program. Co-op/IIP students are evaluated in the same manner as regular students and all rules and regulations of the Faculty of Engineering apply.

Students who are placed on Academic Warning or Academic Probation may either be removed from Co-op/IIP or have their acceptance deferred until they have completed two consecutive terms with an Academic Standing of "Satisfactory".

Students who are Required to Withdraw will immediately become ineligible for Co-op/IIP and will remain ineligible after re-instatement to the Faculty of Engineering.

Written reports must be completed at the end of each work term. Each successfully completed work term and its corresponding work term report receives a Pass/Fail grade and is rated at one credit hour. Graduates who successfully complete at least three work terms and the required work term reports will have the Co-operative Education Option acknowledged on their B.Sc. graduation parchment.

For more information regarding the Co-op/IIP requirements, please see the Co-op/IIP office.

<http://umanitoba.ca/faculties/engineering/programs/coopiip/index.htm>

Website: umanitoba.ca/environment

Academic Staff: Please refer to the Clayton H. Riddell Faculty of Environment, Earth, and Resources Academic Staff [Academic Staff](#) website

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Clayton H. Riddell Faculty of Environment, Earth, and Resources

Dean: Norman Halden

Associate Dean(s): Andrew Frederiksen (Academic), David Barber (Research)

Campus Address/General Office: 440 Wallace Building

Email Address: Riddell.Faculty@umanitoba.ca

Telephone: (204) 474-7252

Fax: (204) 275-3147

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8.8 Geological Sciences Course Descriptions - 4000 level

SECTION 1: Degree Programs Offered

The Clayton H. Riddell Faculty of Environment, Earth, and Resources offers degree programs in Environmental Science, Environmental Studies, Geography, Physical Geography, Geological Sciences, Geology and Geophysics. All students are advised to examine their interests and future goals carefully to make appropriate program choices. Consultation with [Riddell Faculty student advisors](#) and/or department representatives is strongly encouraged.

1.1. Programs (Majors and Minors)

| Degree | Years to complete (at 100% Load) | Total Credit Hours |
|---|----------------------------------|--------------------|
| Geography | | |
| Bachelor of Arts in Geography (General) ¹ | 3 | 90 |
| Bachelor of Arts in Geography (Advanced) ¹ | 4 | 120 |
| Bachelor of Arts in Geography (Honours) ¹ | 4 | 120 |
| Physical Geography | | |
| Bachelor of Science in Physical Geography (Major, Major Co-op) ¹ | 4 | 120 |
| Bachelor of Science in Physical Geography (Honours, Honours Co-op) ¹ | 4 | 120 |
| Environmental Science | | |
| Bachelor of Environmental Science (General) ¹ | 3 | 90 |
| Bachelor of Environmental Science (Major, Major Co-op) ¹ | 4 | 120 |
| Bachelor of Environmental Science (Honours, Honours Co-op) ¹ | 4 | 120 |
| Environmental Studies | | |
| Bachelor of Environmental Studies (General) ¹ | 3 | 90 |
| Bachelor of Environmental Studies (Major, Major Co-op) ¹ | 4 | 120 |
| Bachelor of Environmental Studies (Honours, Honours Co-op) ¹ | 4 | 120 |
| Geological Sciences | | |
| Bachelor of Science in Geological Sciences (General) ¹ | 3 | 90 |
| Geology | | |
| Bachelor of Science in Geological Sciences – Geology (Major) ¹ | 4 | 120 |
| Bachelor of Science in Geological Sciences – Geology (Honours) ² | 4 | 120 |

| Geophysics | | |
|--|---|-----|
| Bachelor of Science in Geological Sciences – Geophysics (Major) ¹ | 4 | 121 |
| Bachelor of Science in Geological Sciences – Geophysics (Honours) ² | 4 | 121 |
| Footnotes: | | |
| ¹ There is no time limit to complete the degree. | | |
| ² There is an eight-year time limit to complete the degree. | | |

1.2 Available Focus Areas and Streams

Focus Areas (Environmental Studies and Environmental Science):

Conservation & Biodiversity, Environmental Assessment, Environmental Health, Toxicology, Land Systems, Natural Resource Management, Northern Studies, Policy & Law, Stewardship, Sustainable Building, Sustainable Development, Water Resources, Wildlife Management, and Individualized Study.

Streams (Physical Geography): Atmosphere and Hydrological Sciences, General Physical Geography, and Geomatics.

SECTION 2: Admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources

2.1 Admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Admission information, rules, regulations and requirements are subject to change from year to year; those found in this publication are specific to the academic year for which it was written.

The following is a summary of the admission requirements. All admission requirements, as well as application deadline dates and forms, are included in the Clayton H. Riddell Faculty of Environment, Earth, and Resources Applicant Information Bulletin that is available from the [Admissions Office](#), Enrolment Services, 424 University Centre; this information is also posted on the University of Manitoba website.

Other than Direct Entry students, completion of a minimum of 24 credit hours of university level courses is required (see sections 2.3 to 2.7)

Faculty admission is determined on the basis of a 2.00 Cumulative Grade Point Average on a minimum of 24 credit hours of course work from a recognized institution. Note: For students completing the Bachelor of Arts in Geography, entry is based on a Degree Standards Table.

Degree programs may define additional entrance requirements and students are referred to the appropriate section of this *Chapter* for further details as follows:

Section 5: Bachelor of Arts in Geography Degree Regulations and Program Descriptions.

Section 6: Bachelor of Science in Physical Geography Degree Regulations and Program Descriptions.

Section 7: Bachelor of Environmental Science and Bachelor of Environmental Studies Degree Regulations and Program Descriptions.

Section 8: Department of Geological Sciences: Bachelor of Science in Geological Sciences - Geology, Geophysics, and General Degree Regulations and Program Descriptions.

Students must apply to be considered eligible for admission to the Riddell Faculty. Application information is available from the Admissions Office, Enrolment Services, 424 University Centre. This information is also available in the Riddell Faculty Dean's Office, 440 Wallace Building, and is posted on the University's website (umanitoba.ca/admissions).

2.2 Direct Entry from Highschool

Eligible students may apply to enter the Clayton H. Riddell Faculty of Environment, Earth, and Resources upon completion of a high school diploma. Eligible students must meet the criteria listed in the Direct Entry Programs Bulletin.

For the most current admission requirements, refer to the Direct Entry Programs

Bulletin: http://umanitoba.ca/admissions/media/direct_entry_bulletin.pdf

2.3 Admission from University 1

University 1 students are encouraged to apply for admission to a degree program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources once they have completed 24 credit hours of course work and have met the minimum entrance requirements of their intended degree program.

2.4 Admission as a Transfer Student

Students applying for admission from other recognized universities or colleges are called 'transfer students'. For the University of Manitoba's general policy on transfer of credit and advanced standing, refer to the Admissions website: umanitoba.ca/admissions.

To be eligible for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources, transfer students must have completed no fewer than 24 credit hours of university level course work and satisfied the minimum performance requirements of the intended degree program. Transfer students who have completed less than 24 credit hours must register in University 1 or Extended Education to complete the required credit hours of course work. Students with more than 24 credit hours who are not admissible to the Riddell Faculty should consider applying to Extended Education as their alternative choice.

Students on academic suspension as a result of work completed at another post-secondary institution or another Faculty will not normally be considered for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources until the suspension has been served.

Transfer of Credit

The University of Manitoba assesses transfer credit as a part of the application process. Assessment of prior course work for admissions or transfer credit will only take place after an application has been submitted. The University of Manitoba [transfer credit equivalencies database](#) is now available as a reference tool to look up current course assessments. Please take note of the guidelines outlined on the database access page as these course assessments are subject to change.

See the Admissions section of this Calendar. Courses completed at an external institution ten years prior to registration in the Clayton H. Riddell Faculty of Environment, Earth, and Resources are not considered for transfer of credit. Students should contact a [Riddell Faculty student advisor](#) regarding transfer credit.

University College of the North and the University of Manitoba Articulation Agreement NRM Technology Diploma (UCN)/ Bachelor of Environmental Science (U of M)

Graduates of the 2 Year Natural Resource Management Technology Diploma from University College of the North may apply for admission into the Bachelor of Environmental Science program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources at the University of Manitoba. Successful applicants will be granted 60 credit hours on admission towards the completion of the 120 credit hour Bachelor of Environmental Science degree.

Students should contact a [Riddell Faculty student advisor](#) regarding more information.

2.5 Admission as a Visiting Student

Visiting students may apply for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources on the basis of a [Letter of Permission](#) from the Registrar or appropriate Dean of her/his home institution. Certain restrictions may be placed on the kind and number of courses in which a student will be allowed to register. Visiting students may wish to contact a [Riddell Faculty student advisor](#) in the Faculty Dean's Office for further information.

2.6 Admission as a Second Degree Student

Students possessing a first degree from a recognized university program with a minimum Cumulative Grade Point Average of 2.00 on their first degree may be eligible for admission as a Second Degree student provided they have completed the minimum coursework entrance requirements for their intended degree program.

Second Degree requirements may be shortened by up to 60 credit hours and, once admitted, students will be expected to satisfy all continuation and graduation requirements in the degree program. Second Degree students are not required to satisfy the University Written English and Mathematics requirement. See a [Riddell Faculty student advisor](#) for specific information on degree requirements following completion of the first degree.

2.7 Admission as a Special Student (After Degree Students)

After Degree Special Student

Students who have successfully completed a first degree from a recognized university program with a cumulative Grade Point Average of 2.00 or better are eligible for admission as Special Students.

Prospective applicants who hold a previously completed degree may enroll in degree credit courses in the Faculty as a Special Student provided that they are not at the time interested in pursuing a degree. As noted in the university admission requirements (<http://umanitoba.ca/student/admissions/requirements/special-students.html>), such courses may subsequently be accepted as credit towards a degree, diploma or certificate at the discretion of program deans or directors.

2.8 Auditing Students

Students who wish to audit courses must have written permission from the instructor of the desired course before they can register. Auditing students must register in-person in their Faculty of registration. The Clayton H. Riddell Faculty of Environment, Earth, and Resources prohibits auditors from registering in courses until after the initial access period.

SECTION 3: Degree Regulations and Services Applicable to all Programs in the Clayton H. Riddell Faculty of Environment, Earth, and Resources

3.1 Courses Offered in Other Faculties and Schools Acceptable for Credit in the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Students who are registered in the Clayton H. Riddell Faculty of Environment, Earth, and Resources may take any course offered by another faculty or school for credit towards their degree, subject to permission from the department head (or designate) and/or a [Riddell Faculty student advisor](#).

3.2 Available Minors in Departments and Faculties

Students in the Bachelor of Environmental Science, Bachelor of Environmental Studies, Bachelor of Science in Geological Sciences (Geology and Geophysics) and Bachelor of Science in Physical Geography degree programs may, if they wish, declare and complete a Minor from departments and interdisciplinary programs in which a Minor is offered. Students registered in the B.A. Geography (General; Advanced) and B.Sc. Geological Sciences (General) are required to complete a Minor prior to graduation. Students may not, however, declare both their Major and Minor from the same subject area. For example: a student in B.A. Geography program may not declare a minor in physical geography; a student in Environmental Science program may not declare a minor in Environmental Studies, etc.. Students can declare only one minor. For specific requirements to complete a Minor, please refer to the relevant Faculty/School's chapter in the Academic Calendar & Catalog.

It should be noted that for Honours students any consideration of completing a Minor should be made early due to restricted opportunities in later years in their programs. **Students in the B.A. Geography (Honours) may not declare a Minor.**

A Minor will normally consist of at least 18 credit hours, with a minimum of 12 credit hours being at the 2000-, 3000-, and 4000-levels (although there are some exceptions). Courses required in a student's specific degree program are acceptable for use in a chosen Minor, subject to the Riddell Faculty regulation stating that students may not declare both their Major and Minor from the same department or interdisciplinary program.

Students planning to enrol in the I.H. Asper School of Business [Management Minor] must consult a [Riddell Faculty student advisor](#) as enrolment in this minor program is limited. *The Management Minor consists of any 18 credit hours in courses offered by the Asper School of Business.*

3.3 University Written English and Mathematics Requirement

Students are required to complete the University Written English and Mathematics requirement within their first 60 credit hours as outlined in the General Academic Regulations, Residence and Written English and Mathematics Requirements in this *Calendar*.

A list of all courses that satisfy the Written English and Mathematics requirements can be found in Approved English and Mathematics Courses of this *Calendar*. Course numbers of designated written English courses are marked with a 'W' and designated Mathematics courses are marked with an 'M'.

Students may wish to consider GEOG 2900W Geography of Canadian Prairie Landscapes (3), ENVR 2810W Environmental Critical Thinking and Scientific Research (3), GEOL 3130W Communication Methods in the Geological Sciences (3), and/or GEOG 3810M Quantitative Research Methods in Geography (3) to satisfy these requirements. In addition, the Department of Environment and Geography offers several courses annually through Distance Education that satisfy the 'W' requirement.

3.4 Science and Faculty of Arts Course Requirements

Students are required to take 6 credit hours from the Faculty of Arts and 6 credit hours of science coursework.

For course subjects taught by the **Faculty of Arts** refer to the Chapter [Faculty of Arts](#) for a complete listing.

Students may complete any combination of the courses listed below adding up to six credit hours to satisfy the 6 credit hours science requirement.

Clayton H. Riddell Faculty of Environment, Earth, and Resources

ENVR 1000, ENVR 2000

GEOG 1290, GEOG 1291, GEOG 2200, GEOG 2272, GEOG 2520, GEOG 2540, GEOG 2541, GEOG 2550, GEOG 2551, GEOG 2700, GEOG 2930, GEOG 3390, GEOG 3730

GEOL 1340, GEOL 1400, GEOL 1410, GEOL 1420, GEOL 2350, GEOL 2390, GEOL 2440, GEOL 2500, GEOL 2570, GEOL 3310

Faculty of Science

All courses offered in these subjects in the Faculty of Science: ASTR, BIOL, CHEM, COMP, FORS, MATH, MBIO, PHYS, SCI, STAT,

Faculty of Agricultural and Food Sciences

AGRI 1500, AGRI 1510

ENTM 1000, ENTM 2050

PLNT 1000, PLNT 2500

SOIL 3060, SOIL 3520, SOIL 3600

For course titles and descriptions see the relevant faculty entries in this Calendar.

3.5 Changes in Program Requirements

Once students have successfully completed any portion of a degree program, they will not be required to meet new course requirements subsequently stipulated for that portion of the program, whether the requirements be for the Faculty or for an individual degree program. Students are required to complete their program in its entirety as outlined in the Calendar effective upon the point of admission to the Faculty and program.

3.6 Prerequisite and Corequisite Courses

Prerequisite: Minimum grades of "C" are required in all courses listed as prerequisites, except as otherwise noted in the course descriptions published in each department and program section of this chapter. If a course is a prerequisite for a second course, the prerequisite must be met in order to continue in the second course.

Some course descriptions will indicate that a specific course is a pre- or corequisite for the course in which you wish to register. If you have not

previously taken the specific course, you may register for it in the same term.

Corequisite: Where a course identifies another course as a corequisite, both courses must be taken at the same time.

3.7 Course Availability

All courses listed in this *Calendar* are not offered every year. Students are referred to the [Class Schedule](#) for current information.

The Department of Environment and Geography offers numerous courses under the following course numbers: *GEOG 3770 Special Topics in Geography (3)*, *GEOG 4670 Selected Issues (3)*, *GEOG 3740 Field Studies in Geography (6)*, *GEOG 3750 Field Studies in Geography (3)*, *GEOG 3760 Special Topics in Geography (6)*, *ENVR 2010 Field Topics in Environment (1.5)*, *ENVR 2020 Extended Field Topics in Environment (3)*, *ENVR 3000 Multidisciplinary Topics in Environmental Science (3)*, *ENVR 3010 Field Topics in Environmental Science 1 (1.5)*, *ENVR 3020 Extended Field Topics in Environmental Science 1 (3)*, *ENVR 4000 Multidisciplinary Topics in Environmental Science (3)*, *ENVR 4010 Field Topics in Environmental Science 2 (1.5)*, and *ENVR 4020 Extended Field Topics in Environmental Science 2 (3)*.

The Department of Geological Sciences offers a course under the following course number: *GEOL 4270 Advanced Studies in Earth Sciences (3)*. Students are referred to the [Class Schedule](#) for current information.

3.8 Repeated Courses and Attempted Credit Hours

Clayton H. Riddell Faculty of Environment, Earth, and Resources students are subject to the University of Manitoba regulations (see [General Academic Regulations, Academic Evaluation, Repeating a Course](#) as described in this *Calendar*) and the Riddell Faculty degree regulations regarding eligibility to repeat a course. Repeating a course will not result in the removal of the first attempt and grade in that course from the student's record. The course will appear on the transcript as many times as it has been repeated. When a course has been repeated or an equivalent course is taken, only the attempt in which the highest grade was achieved shall be counted towards a student's degree. Grades from all course completions will be used in the calculation of the DGPA, TGPA and CGPA.

There is no limit to the number of credit hours permitted in the degree programs in the Faculty provided a student does not exceed the credit hour limit of failed courses stated for specific programs.

Limited Access

Effective 2018 Winter Term - Limited Access in Effect

Limited Access is a registration rule that allows students who have never before completed, or voluntarily withdrawn, from a course (or its equivalent) the opportunity to register for the course before students who are repeating or have previously withdrawn from the course.

If a student has previously taken a course and received a final grade, or voluntarily withdrawn from the course (VW)*, any future attempt to take that course or its equivalent is considered a repeated course.

*A previous VW is only considered a repeat if the student voluntarily withdrew in Winter 2017 or later.

Effective Winter 2018, Limited Access will prevent a student from registering or placing themselves on the waitlist for a course (or equivalent) being repeated until the "Limited Access Term Expiry Date" has passed.

Limited Access applies for three consecutive terms following the term that the course in question was last completed or voluntarily withdrawn (VW).

During these three terms of Limited Access, a student may register to repeat a course, without permission, only when the Limited Access Term Expiry Date has passed.

Once the three terms of Limited Access has expired, any student wishing to repeat a course must request permission to do so from the Riddell Faculty Dean's Office prior to registration in order to register or place themselves on the waitlist for a course prior to the "Limited Access Term Expiry Date".

3.9 Voluntary Withdrawals

The responsibility for initiating withdrawals rests solely with the student. When eligible to do so, Voluntary Withdrawals must be done through Aurora Student. No withdrawals will be permitted after the deadlines posted in the [Academic Schedule](#).

There is currently no limit on the number of Voluntary Withdrawal hours a student can accumulate.

3.10 Authorized Withdrawals

Students who have valid and documented reasons for withdrawal, such as medical illness or compassionate circumstances, may be authorized to withdraw without penalty. Requests for authorized withdrawals must be submitted in writing to a [Riddell Faculty student advisor](#). The Office of Student Advocacy located at 520 University Centre (474-7423, student_advocacy@umanitoba.ca) is available to provide information and assistance.

3.11 Residence Requirement

Students are required to complete a minimum number of credit hours at the University of Manitoba. Students should refer to their degree program in the appropriate section for further information:

5: Bachelor of Arts in Geography Degree Regulations and Program Description and Courses Offered by

6: Bachelor of Science in Physical Geography Degree Regulations and Program Description and Courses Offered by

7: Bachelor of Environmental Science and Bachelor of Environmental Studies Degree Regulations and Program Descriptions and Courses Offered by

8: Department of Geological Sciences: Bachelor of Science in Geological Sciences - Geology, Geophysics, and General Degree Regulations and Program Descriptions and Courses Offered by

The courses used to satisfy the residence requirement must be acceptable for credit by the degree program in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Residence requirements apply to both first and second degree students.

3.12 Letter of Permission to Take Courses at Another University

Students wishing to complete courses at another institution for credit at this university must obtain written permission (Letter of Permission) from the Registrar's Office prior to registering at the other institution or no credit will be permitted. Any earned grades are transferred and form part of the degree Grade Point Average, when applicable. Students who register for courses elsewhere without a Letter of Permission must reapply to the Faculty.

Students who are on academic suspension may not elect courses at another institution for credit toward an Environment, Earth, and Resources degree at this university.

Attendance at Other Institutions

Students who attend other post-secondary institutions without a Letter of Permission must reapply for admission to the Faculty before the application deadline and be academically competitive for admission. Similarly, students registered in the Clayton H. Riddell Faculty of Environment, Earth, and Resources may not be registered at another academic institution at the same time unless they are registered elsewhere on a Letter of Permission. The penalty for unauthorized or undisclosed attendance may be disciplinary withdrawal or academic suspension.

3.13 Dean's Honour List

A student's eligibility for the Dean's Honour List designation is evaluated after each term.

Students enrolled in a minimum of 12 credit hours of course work during a term and who achieve a term Grade Point Average of 3.50 or higher will be placed on the Dean's Honour List. The Dean's Honour List designation will appear on the student's transcript.

3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing)

Students shall be evaluated after each academic term in which they receive a final grade in a minimum of 4 credit hours, with the assessment being based on the resulting Degree Grade Point Average (DGPA). This assessment will determine a student's academic standing to be: faculty minimum met, academic warning, on probation, suspension warning, or academic suspension.

Degree Grade Point Average (DGPA)

The Degree Grade Point Average (DGPA) is computed from the final grades obtained in all courses attempted that are part of the degree requirements, including applicable courses transferred from other faculties and institutions. Where a course has been repeated or replaced by an approved substitution or equivalent course, all attempts shall be included in the computation.

Faculty Minimum Met

To be in good standing, a student must achieve a 2.00 Degree Grade Point Average at each point of assessment and the notation 'Faculty Minimum Met' will be recorded on the student's transcript. Note: For students completing the Bachelor of Arts in Geography, Faculty Minimum Met is based on a Degree Standards Table found in section 5.2.2.

Degree programs may define additional performance requirements for continuation and graduation. Students are referred to the appropriate section of this Chapter for further details as follows:

- Section 5.3: Bachelor of Arts in Geography.
- Section 6.3: Bachelor of Science in Physical Geography.
- Section 7.3: Bachelor of Environmental Science and Bachelor of Environmental Studies.
- Section 8.3.1: Bachelor of Science in Geological Sciences - Major.
- Section 8.3.2: Bachelor of Science in Geological Sciences - Honours.
- Section 8.3.3: Bachelor of Science in Geological Sciences - General.

Academic Warning

Students will receive an academic warning if, at the point of assessment following a term, s/he fails to achieve the required minimum performance level. The notation 'Academic Warning' will be recorded on the student's transcript.

On Probation

Those who fail to meet the required minimum performance level following an Academic Warning assessment will be placed **on probation**. The notation 'On Probation' will be recorded on the student's transcript.

Suspension Warning

Those who fail to meet the required minimum performance level following an On Probation assessment will be placed on **Suspension Warning**. The notation, 'Suspension Warning' will be recorded on the student's transcript.

Academic Suspension

Those who fail to meet the required minimum performance level following a Suspension Warning assessment will be placed on **Academic Suspension for One Year**. The notation, 'Academic Suspension for One Year' will be recorded on the student's transcript. A student placed on academic suspension is not allowed to register in the Clayton H. Riddell Faculty of Environment, Earth, and Resources during the duration of the suspension.

A student will be placed on **academic suspension for two years** under the following circumstances:

- Upon return from one year suspension, the student fails to attain a 2.00 degree grade point average in the following two terms after the probationary assessment (see a [Riddell Faculty student advisor](#) for information).
- The Faculty calculates that it is mathematically impossible for the student to clear his/her probationary standing by the following assessment period.
- The student exceeds the maximum number of credit hours of failed courses.

The notation, 'Academic Suspension for Two Years', will be recorded on the student's transcript of marks. Those serving two-year suspensions are required to start the degree afresh should they choose to return to the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Students may appeal for transfer of credit up to 30 credit hours in courses in which a minimum grade of 'C' was achieved.

Students should consult with a [Riddell Faculty student advisor](#) for further assistance in clearing their academic warning, on probation, suspension warning, or academic suspension academic standing.

Special Students

Special students that have successfully completed at least 15 credit hours of course work in the Riddell Faculty will be notified by mail / email that given the extent of their studies to date, they are strongly encouraged to consider application to a degree, diploma or certificate program, perhaps through Extended Education or as a Second Degree Student.

- If 6 or more credit hours of coursework in the first 15 are failed course attempts (grades of F or D) students will receive notice by mail / email encouraging them to seek guidance from the Academic Learning Centre and /or from Riddell Faculty student advisors.

Special students that have earned (includes earning F grades) 30 credit hours of course work in the Riddell Faculty will be notified by mail / email that given the extent of their studies that they must either transfer into a degree, diploma or certificate program, or should they wish to continue their studies as non-degree students, to enroll with Extended Education. Special Student status will not be granted by the Riddell Faculty past the 30 credit hour level.

3.15 Academic Misconduct

Academic misconduct is intentional cheating, fabrication, impersonation, or plagiarism. It is also knowingly helping or attempting to help others to be dishonest. Academic dishonesty lowers scholastic quality and defrauds others who will eventually depend on their own knowledge and integrity.

Plagiarism or any other form of cheating on examinations, term tests, or assignments is subject to academic penalty as serious as suspension or expulsion from the Faculty or University.

Students who are unsure of what constitutes academic misconduct should refer to the regulations in the *Chapter* General Academic Regulations, Academic Integrity: Plagiarism and Cheating in this *Calendar* and consult with your professor or instructor.

3.16 Termwork and Debarment

A student is responsible for the completion of laboratory work, assignments, tests and other class work as prescribed by the course syllabus. A student who does not meet termwork requirements to the satisfaction of the Associate Dean (Academic) will receive a warning to this effect. If this warning is ignored, a student may be debarred from the course. Any student debarred from a course receives an automatic grade of 'F' in that course.

3.17 Deferred (missed) Examinations

A student who is unable to write a final examination because of illness or other incapacity or compassionate reasons should contact a student advisor in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. The appropriate documentation (i.e. a medical certificate or otherwise appropriate documentation certifying the reason for the missed exam) will be required. Students are reminded to contact their home faculty (and not the faculty through which the course is offered). Please see the [missed exam information](#) on the faculty website. For information on Incomplete Coursework, Deferred Examinations, Debarment, Academic Dishonesty, etc., refer to the *Chapter* General Academic Regulations in this *Calendar*.

A complete copy of the *Deferred and Supplemental Examinations Procedures* is available at http://umanitoba.ca/admin/governance/governing_documents/academic/1299.html

It should in particular be noted that there are no Supplemental Examinations in the Clayton H. Riddell Faculty of Environment, Earth, and Resources.

3.18 Challenge for Credit

Some departments at the University of Manitoba offer courses by means of challenge of credit. Since the courses offered in this manner may vary from year to year, any student wishing to challenge a course for credit should contact a [Riddell Faculty student advisor](#) in the Clayton H. Riddell Faculty of Environment, Earth, and Resources general office. The [Academic Schedule](#) of this *Calendar* contains the relevant registration deadline dates appropriate to challenge for credit.

3.19 Appeals Involving Academic Regulations

The Student Appeals and Discipline Committee in the Faculty considers appeals from students who request special consideration with respect to the rules and regulations governing their degree program and qualifications for graduation.

Appeals should be addressed to: [Student Advisor](#), Secretary Student Appeals and Discipline Committee, General Office, Clayton H. Riddell Faculty of Environment, Earth, and Resources, 440 Wallace Building.

3.20 Riddell Faculty Student Advisor Office Hours

Monday through Friday: 9:00 a.m. to 4:00 p.m.

Email: Riddell.Faculty@umanitoba.ca

Students may schedule an appointment with an Academic Advisor here: <https://riddellappointments.setmore.com>.

3.21 Student Responsibility & Application to Graduate

It is your responsibility to be familiar with the regulations, courses, and graduation requirements of your degree program. You are advised to review the appropriate sections of this *Calendar* carefully when selecting your courses to ensure compliance with degree program requirements. If you are not sure of how regulations and requirements apply to your case, please consult a [Riddell Faculty student advisor](#). Since a complete graduation check is not done until you have declared your intention to graduate, you are encouraged to make an appointment with a [Riddell Faculty student advisor](#) prior to your initial registration access date to confirm you are meeting the degree requirements. Ultimately you are responsible to ensure compliance with degree program requirements.

Every candidate for a degree must make a formal application at the beginning of the term in which they expect to complete graduation requirements, before the last date of the registration revision period.

Undergraduate students need to declare their intent to graduate. This can be done on-line through Aurora. (Log into Aurora, select "Enrolment and Academic Records", select "Declarations", and follow the instructions. If the date you wish to graduate does not appear, you will need to contact a Student Advisor in the Dean's Office, 440 Wallace, for assistance.; you may have missed the online application deadline)

Note: While we welcome the opportunity to assist you, it is important for you to realize that it is your responsibility to be familiar with university and Riddell Faculty academic regulations and registration procedures as they are described in this calendar.

3.22 Maximum Number of Courses During a Term

You may attempt a maximum of 15 credit hours in any one term unless otherwise stipulated by your program. If you wish to exceed the normal load you may apply in-person at the Faculty Dean's Office, or complete the [Application to Exceed Credit Hours](#) form available on the Riddell Faculty web page (umanitoba.ca/environment/undergraduate).

3.23 Time Away from the Clayton H. Riddell Faculty of Environment, Earth, and Resources

Have you been away for a While?

Have you attended any other post-secondary institution or another Faculty at the U of M since your last registration in the Riddell Faculty?

If your answer to the above question is **no**, then you follow these procedures:

Former Riddell Faculty students that have not registered in courses for more than one calendar year and have not attended any other post-secondary institution or faculty at the University of Manitoba will contact a Riddell Faculty student advisor to complete and submit the Request for Permission to Re-Register form to have their record reactivated.

Former Riddell Faculty students previously placed on academic suspension may not re-register until they have served their term of suspension. Upon completion of their suspension, students must contact a Riddell Faculty student advisor in order to have their records updated and activated.

If you answered **yes** to the above question and you have attended another post-secondary institution or another Faculty at the U of M since your last registration in the Riddell Faculty, you follow these procedures:

Students who have registered in another Faculty or School at the University of Manitoba since their last registration in the Riddell Faculty must apply

through the Admissions Office in accordance with the application deadlines and be readmitted before they are eligible to register in the Riddell Faculty again.

Students who have attended another university or institution since their last registration in the Riddell Faculty must apply through the Admissions Office in accordance with the application deadlines and be readmitted before they are eligible to register in the Riddell Faculty again.

- This does not apply to Riddell students who have taken courses at another university or college on the basis of a Letter of Permission granted by this university.

Admitted to the Riddell Faculty - but Never Registered

Students previously admitted to the Riddell Faculty that did not register in the Riddell Faculty in the term of admission must re-apply to the Riddell Faculty if they wish to register as a student in the Riddell Faculty.

SECTION 4: Department of Environment and Geography

Head: Mark Hanson

Campus Address/General Office: 220 Sinnott Building

Email Address: environment_geography@umanitoba.ca

Telephone: (204) 474-9667

Fax: (204) 261-0038

Website: umanitoba.ca/environment/departments/geography

4.1 Academic Staff

Please refer to the Clayton H. Riddell Faculty of Environment, Earth, and Resources [Academic Staff](#) website.

4.2 Undergraduate Programming in the Department of Environment and Geography

The fields of study in this department can be divided into four overlapping areas: environmental sciences, environmental studies, human geography and physical geography. These areas are built on a diverse range of academic frameworks or foundations, including: natural, physical and social sciences, education, law, agriculture, management, medicine, humanities and architecture.

Environmental Science applies scientific knowledge from many disciplines to issues and questions relating to an increasing human population, the sustainability of resource use, degradation caused by pollution and disturbance, and the endangerment and extinction of species and natural systems. Environmental Studies applies the theory and practice of group and organizational communication, understanding public policies and programs that underscore environmental concerns, and the need to integrate diverse social, institutional, political and legal considerations inherent in attaining environmental objectives. (Students have the opportunity to focus advanced studies in one of several areas, defined through consultation with a [Riddell Faculty student advisor](#).)

"Human Geography examines how people have been influenced by the environment and how, in turn, they have left their mark on the environment," Dr. Daniel Todd, Human Geographer. Students may choose to focus their studies into one of several areas including *Human-Environment Relations, Urban and Rural Development, Social Cultural Geography, Population, Resources and Development, and Area Studies*.

Areas of physical geography include the study of the environment through aspects of atmospheric science, geomatics, biogeography, and hydrology. Streams are currently available in *Atmospheric and Hydrological Sciences*,

Geomatics (an emerging subfield, referring to the techniques of spatial data acquisition, handling and analysis) and *Physical Geography*.

Potential careers for graduates of these programs include a diverse array of possibilities in the natural sciences, social sciences, or a combination of both. Graduates are poised to assume positions where they identify and analyze the local, regional, national, and global patterns that shape our lives. As well, technical skills such as geographic information systems and remote sensing are demanded in several of the environmental sectors. Graduates of these programs can expect to enter the workforce in private, government, research, or not-for-profit sectors.

4.3 Cooperative Education Option

A [Cooperative Education Option](#) is available to students registered in either the Major or Honours degree programs in Environmental Science, Environmental Studies, or Physical Geography. Coop is an arrangement whereby students spend alternating periods in university and employment. There are several advantages to a cooperative education program for students. One benefit is that students are able to acquire both theoretical knowledge and practical experience. This experience assists them in selecting areas of specialization for their senior courses in their chosen Focus Area or Stream. As well, Coop assists students in their professional development by enhancing networking opportunities, participation in conferences and workshops and provides the foundation of skills and strategies required in searching and acquiring employment after graduation. Students can also defray some of the costs of their university education through these work term placements. Further information about Cooperative Education and student eligibility is available from the [Coop Placement Coordinator](#) available in the Faculty general office.

Students electing to participate in the Cooperative Education Option will be assessed a program fee with their formal admission into the program. Once a student has accepted a position with a Coop employer, no portion of the program fee will normally be refunded.

The Cooperative Education Option consists of two employment work terms, each over a minimum period of four months, and contributes 6 credit hours towards the four year degree program. Students complete ENVR 2900 Professional Development 1 (1.5), ENVR 3900 Professional Development 2 (1.5), work term placements ENVR 3980 Work Term 1 (0), ENVR 3990 Work Term 2 (0), and the work term report courses ENVR 3910 Work Term Report 1 (1.5) and ENVR 3920 Work Term Report 2 (1.5). Additional work terms are available to interested students. Each academic term and each employment term commence in January, May or September. While on an employment term, a Cooperative Education Option student is not permitted to take more than three additional credit hours of academic work outside of the requirements of the Coop placement without permission of a [Riddell Faculty student advisor](#).

Students are required to register in the appropriate Coop courses and pay course fees prior to beginning their placement.

For more information, please visit the [Riddell Faculty Co-operative Education Program](#) webpage.

SECTION 5: Bachelor of Arts in Geography Degree Regulations, Program Description and Courses Offered by

Head: Mark Hanson

Campus Address/General Office: 220 Sinnott Building

Website: environment_geography@umanitoba.ca

Telephone: (204) 474-9667

Fax: (204) 261-0038

Website: umanitoba.ca/environment/departments/geography

5.1 Program Information

There are four broad categories of courses in the Geography discipline: **physical** geography is concerned with physical features on and over the globe; **human** geography examines the products of human activity; **regional** geography attempts to achieve a synthesis of physical and human geography of a particular place; and **techniques** in geography focus on analytical methods.

The attraction of Geography as a discipline lies in its diverse interests and approaches to knowledge building while being centred on the fundamental concepts of human-environment relations, location/place and space/ distance. Geographers see the world and want to know how physical processes and systems shape the land, air, water, flora and fauna around them and how these are influenced by human activity. We want to know how human societies, cultures, and economies work and how these human systems are interdependent with each other and with natural systems. We work at a variety of geographic scales, from the micro-scale of local communities and regions, through the macro-scale of global human and physical systems. Geography embraces the study of topics as wide-ranging as: weather and climate, population distribution, agricultural systems, globalization, landforms and geomorphology, environmental perceptions, health and healthcare, and biogeography. Therefore, by selecting courses from within the department, as well as complementary courses from other academic units of the University, students can develop fascinating, focused and challenging degree programs that will prepare them for careers in a variety of areas.

The General degree in Geography provides students with a basic level of understanding of the discipline and its inter-relationships. This degree is also a useful consideration for students planning to complete the After-Degree Bachelor of Education program (see the Faculty of Education chapter of this Calendar). The General degree program may be completed entirely by Distance Education. The Advanced degree program in Geography provides opportunities for students who desire a broad geographical education along with a reasonable degree of specialization in a particular field of Geography. Students planning a professional career or a high degree of specialization in Geography are strongly advised to enter the Honours degree program. The Honours degree demands the highest scholastic performance of all programs available. Students are strongly advised to enter an Honours degree program with their admission to the Bachelor of Arts in Geography. Consultation with the department head is also advised.

Structure of the B.A. Geography Degree Program

The structure of the B.A. Geography degree is summarized as follows:

A **Geography (Major)** component that varies in credit hour requirement depending on the degree program; 30 credit hours in the General; 51 credit hours in the Advanced; and 69 credit hours in the Honours. Students are not permitted to declare a second major.

Advanced and General degree students must complete a **Minor** in a subject field that is different than that of the declared major, and may be chosen from one of the other programs in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Students in the B.A. Geography are not permitted to complete a Minor in Physical Geography. The Minor requirements are described in section 3.2 of this *Chapter*. Contact a [Riddell Faculty student advisor](#) in the Faculty Dean's Office for further information about eligible Minors.

Students must complete 5 subject fields with 6 credit hours in each (30 credit hours). For example: 6 credit hours in Geography, plus 6 credit hours

in Mathematics, plus 6 credit hours in Geological Sciences, plus 6 credit hours in Anthropology, plus 6 credit hours in Native Studies.

Students must also complete 6 credit hours from Humanities, and 6 credit hours offered by the Faculty of Arts, and 6 credit hours of science courses.

Note: Students can satisfy the requirement for a Humanity, and/or Arts, or science and at the same time satisfy the Written English or Mathematics requirement and one of the 5 subject fields required with the same 6 credit hours of courses.

Humanities

For course subjects taught by the Faculty of Arts that can be used towards the Humanities requirement, refer to the *Chapter* for the Faculty of Arts, Additional Faculty Regulations and Policies section. Music (i.e. all courses listed for Advanced Major and Minor programs except ensemble courses) and History of Art (i.e. all courses listed with course prefix FAAH) may also be eligible courses. Students should see a [Riddell Faculty student advisor](#) for further information.

B.A. in Geography (General): Academic Regulations

To qualify for the degree Bachelor of Arts in Geography (General), students must complete 90 credit hours including: all course requirements; a chosen minor field; the requirements in the five subject fields; and areas of Humanities, Arts, and sciences. As well, students must satisfy the Riddell Faculty regulations outlined in section 3 of this *Chapter*. Minimum performance requirements include passing grades ('D' or better) in each course and a minimum degree Grade Point Average of 2.00 on Geography courses as well as the 90 credit hours that constitute the degree. Students cannot exceed 48 credit hours of failed courses.

B.A. in Geography (Advanced): Academic Regulations

To qualify for the Bachelor of Arts in Geography (Advanced) degree, students must complete 120 credit hours including: all course and performance requirements; a chosen minor field; the requirements in the five subject fields; and areas of Humanities, Arts, and sciences. As well, students must satisfy the Riddell Faculty regulations outlined in section 3 of this *Chapter*. Minimum performance requirements include passing grades ('D' or better) in each course and a minimum degree Grade Point Average of 2.00 on Geography courses and the 120 credit hours which constitute the degree. Students cannot exceed 18 credit hours of failed courses.

B.A. in Geography (Honours): Academic Regulations

To qualify for the Bachelor of Arts in Geography (Honours) degree, students must complete 120 credit hours including: all course and performance requirements; the requirements in the five subject fields, and the areas of Humanities, Arts and sciences. As well, students must satisfy the Riddell Faculty regulations outlined in section 3 of this *Chapter*. Minimum performance requirements include passing grades ('D' or better) in each course and a minimum degree Grade Point Average of 3.00 on Geography courses and the 120 credit hours which constitute the degree. Students cannot exceed 18 credit hours of failed courses.

5.2 Advanced Entry Requirements

Students are required to attain a minimum degree Grade Point Average of 2.00 based on the Degree Standards Table in Section 5.2.2 to be eligible for admission to the B.A. in Geography. Students who are admitted will be placed in the General degree program. Students may be eligible for transfer to either the Advanced or Honours degree program provided they satisfy the entrance requirements defined below in 5.2.1. To enter the Advanced or Honours degree program, a student must consult with a [Riddell Faculty student advisor](#) in the Faculty Dean's Office.

| 5.2.1 Advanced Entry Requirements | | | | |
|--|--------------------------------|------------------------------------|--|--|
| Degree Program in B.A. Geography | Minimum Number of Credit Hours | Minimum Degree Grade Point Average | Maximum Credit Hours of Failed courses | Additional Entrance Requirements |
| Honours | 24 | 3.00 | 18 | grade of 'B' from GEOG 1280, GEOG 1290 ² and/or GEOG/GPE 1700 or a GPA of 3.00 or better in all Geography courses |
| Advanced | 24 | 2.00 | 18 | grade of 'C' from GEOG 1280, GEOG 1290 ² and/or GEOG/GPE 1700 |
| General | 24 | 2.00 ¹ | 48 | grade of 'C' from GEOG 1280, GEOG 1290 ² and/or GEOG/GPE 1700 |
| ¹ Minimum Grade Point Average for entrance into the General degree program is determined using the Degree Standards Table in 5.2.2. ² GEOG 1281 and GEOG 1291 may be used in lieu of GEOG 1280 and GEOG 1290, respectively. | | | | |

5.2.2 Grade Point Average Calculation for Entrance and Continuation

General degree students in the B.A. Geography must attain a minimum 2.00 Grade Point Average at each point of assessment. The Degree Standards Table listed below is used to determine a student's eligibility for admission to the Riddell Faculty as well as evaluate a student's performance after each term.

| 5.2.2 Degree Standards Table | |
|------------------------------|--------------------|
| Credit hours | Minimum Degree GPA |
| 24-30 | 1.80 |
| 33-45 | 1.85 |
| 48-60 | 1.90 |
| 63-75 | 1.95 |
| 78-90 | 2.00 |
| 93+ hours | 2.00 |

5.3 Minimum Performance Requirements

A student's academic performance is assessed first with his/her application for admission to the Riddell Faculty and then following each *term* in which the student is registered in more than 4.0 credit hours. To be in **good**

standing and permitted to continue in a degree program, a student must achieve the minimum standards outlined for his/her degree program at each point of assessment. For General degree students, this includes the Degree Standards Table outlined in 5.2.2, as well as the requirements outlined in 5.3.1. Students in the Advanced and Honours degrees are required to satisfy the requirements listed in 5.3.1. Minimum academic performance is based on the degree Grade Point Average and number of failed courses. Prior to each registration, Advanced and Honours degree students must have their course selections approved by a [Riddell Faculty student advisor](#). Students may not make any subsequent changes without receiving prior written permission.

To graduate with a B.A. Geography with the intended degree designation, a student must achieve the minimum performance standards and graduation requirements outlined in 5.3.1. following their last term of registration and satisfy all faculty and degree requirements in Geography as defined in sections 5.3.1. and 5.5 of this Chapter.

Students in the Honours and Advanced degree programs who do not meet these minimum performance requirements will be withdrawn from their existing program and placed in the Advanced and General degrees respectively. Students who do not meet the minimum performance requirements for the General degree program will receive an academic warning, be placed on probation or academic suspension as defined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this Chapter. Students withdrawn from the Honours degree program may be eligible to enter the Advanced program and are required to obtain permission from a [Riddell Faculty student advisor](#).

Students withdrawn from the Honours degree program will have the notation, 'Required to Withdraw from the Honours Program', recorded on their transcript. Similarly, students withdrawn from the Advanced program will have the notation, 'Required to Withdraw from the Advanced Program', recorded on their transcript.

| 5.3.1 Minimum Performance Requirements for Continuation and Graduation | | | | | |
|--|---|---------------------------------|--|--|--|
| Degree Program (Cr. Hrs.) | Minimum Performance Requirements | | | Additional Graduation Requirements | |
| | Minimum Degree Grade Point Average (DGPA) | Maximum Cr. Hrs. Failed Courses | Minimum Degree GPA in Geography Courses ³ | Geography Courses Cr. Hr. Requirement (see 5.5 also) | Residence Requirement (Cr. Hrs.) (see section 3.11 also) |
| Honours ^{2,1} (120) | 3.00 | 18 | 3.00 | 69 | 60 |
| Advanced ^{1,2,3} (120) | 2.00 | 18 | 2.00 | 51 | 60 |
| General ² (90) | 2.00 see 5.2.2 for continuation | 48 | 2.00 | 30 | 48 cr. hrs. total or the final 30 cr. hrs. |

¹The courses required in this program will satisfy the university mathematics requirement and the science course requirement.

²Within the first 60 credit hours of courses, students must have completed 6 credit hours in each of 5 subject fields (totalling 30 credit hours). See section 5.1 for details.

³General and Advanced degree students are required to maintain a Degree Grade Point Average of 2.00 on the courses defining their Geography Major. Note: Students must complete all prerequisite courses with minimum 'C' grades.

5.4 Graduating with Distinction or First Class Honours

With Distinction

Students graduating with a B.A. Geography (General) degree will have their degree granted 'With Distinction' if they have a minimum degree Grade Point Average of 3.80 and provided a minimum of 60 credit hours of acceptable course work is completed at the University of Manitoba.

Students graduating with a B.A. Geography (Advanced) degree will have their degree granted 'With Distinction' if they have a minimum degree Grade Point Average of 3.80 and provided a minimum of 90 credit hours of acceptable course work is completed at the University of Manitoba.

First Class Honours

Students in the Honours program will have their degree granted with 'First Class Honours' if they have a minimum degree Grade Point Average of 3.80 and provided a minimum of 90 credit hours of acceptable course work is completed at the University of Manitoba.

5.5 B.A. Geography Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--|--|
| HONOURS 1 120 CREDIT HOURS (69 credit hours in Geography) | | | |
| 6 credit hours from GEOG 1280, GEOG 1290 and/or GEOG 1700 Plus 6 credit hours of Humanities ⁶ | GEOG 2200, ENVR 2810 ⁷ 9 credit hours in Geography courses numbered at the 2000- or 3000-level ³ | GEOG 3730, GEOG 3810 Plus 18 credit hours in Geography courses numbered at the 2000- or 3000-level ³ | GEOG 4660 18 credit hours in Geography courses numbered at the 4000- level |
| The W course must be completed within the first 60 credit hours of courses. Enough elective credit to total 120 credit hours for the program. | | | |
| ADVANCED 1 120 CREDIT HOURS (51 credit hours in Geography) | | | |
| 6 credit hours from GEOG 1280, GEOG 1290 and/or GEOG 1700 Plus 6 credit hours of Humanities ⁶ | GEOG 2200, ENVR 2810 ⁷ 9 credit hours in Geography courses numbered at the 2000- or 3000-level ⁴ | GEOG 3730, GEOG 3810 Plus 6 credit hours in Geography courses numbered at the 3000-level ⁴ | 12 credit hours in Geography courses numbered at the 4000- level Plus 6 additional credit hours in Geography at the 2000-level or above |
| The W course must be completed within the first 60 credit hours of courses. Enough elective credit to total 120 credit hours for the program. | | | |
| GENERAL 2 90 CREDIT HOURS (30 credit hours in Geography) | | | |
| 6 credit hours from GEOG 1280, | 12 credit hours in Geography | 12 credit hours in Geography courses | |

| | | | |
|--|--|--|--|
| GEOG 1290 and/or GEOG 1700 | courses numbered at the 2000-level ⁴ | numbered at the 3000- and/ or 4000- level ⁴ | |
| Plus 6 credit hours of Humanities ⁶ | | | |
| May require 6 credit hours from science courses | | | |
| The W and M courses must be completed within the first 60 credit hours of courses. Note: 30 credit hours, with 6 credit hours in each of 5 subject fields, must be completed in the first 60 credit hours. Enough elective credit to total 90 credit hours for the program. | | | |
| MINOR 18 CREDIT HOURS | | | |
| 6 credit hours from GEOG 1280, GEOG 1290 and/or GEOG 1700 | 6 credit hours in Geography courses numbered at the 2000-level | 6 credit hours in Geography courses numbered at the 3000-level | |
| NOTES: | | | |
| ¹ Entrance into the Honours and Advanced degree programs is summarized in 5.2.1. The courses required in this program will satisfy the University Mathematics requirement and the sciences courses requirement. | | | |
| ² Entry into the General degree program is summarized in 5.2.1 and 5.2.2. | | | |
| ³ Among the 2000- and 3000-level courses, at least 6 credit hours must be systematic and at least 6 must be area studies. Systematic courses and area studies courses are listed in Section 5.6. | | | |
| ⁴ Among the 2000- and 3000-level courses, at least 12 credit hours must be systematic and at least 6 must be area studies. Systematic courses and area studies courses are listed in Section 5.6. Students wishing to transfer from the General to the Advanced degree program are permitted to take either GEOG 2200 and GEOG 3730, or ENVR 2810 in either third or fourth year. | | | |
| ⁵ Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number "1" (e.g. GEOG 1281). | | | |
| ⁶ May also satisfy the Faculty of Arts requirement. | | | |
| ⁷ The former GEOG 2530 may be used in lieu of ENVR 2810. | | | |
| Notes: | | | |
| <ul style="list-style-type: none"> To fulfil prerequisite requirements, a grade of "C" must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course. Students should review the current course topics available through GEOG 3740 (6), GEOG 3750 (3), GEOG 3760 (6), GEOG 3770 (3) and GEOG 4670 (3). Also, all courses are not offered every year or every term. The course schedule for the current academic term is available from the Class Schedule. Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the Department of Environment and Geography general office. | | | |

5.6 Systematic (HS, PS, TS) and Area Studies (A) Courses

Courses numbered at the 2000- and 3000-level are arranged into Systematics (PS, HS and TS) and Area Studies (A). B.A. Geography students may specialize in the Physical Geography (PS); Human Geography (HS);

Techniques (TS); Area Studies (A) but it is not compulsory for them to do so. B.A. Geography students wishing to specialize in Physical Geography should select at least 18 credit hours from optional courses designated as 'PS'. B.A. Geography students wishing to specialize in Human Geography should select at least 18 credit hours from optional courses designated as 'HS'. Students should discuss these options with a [Riddell Faculty student advisor](#).

B.A. Geography students wishing to specialize in Applied Geography should include 2000-level courses from GEOG 2200, GEOG 2310, GEOG 2510, GEOG 2520, and ENVR 2810W; and 3000-level courses from GEOG 3200, GEOG 3320, GEOG 3460, GEOG 3730, GEOG 3810M, GEOG 3710, and GEOG 3720.

Courses offered for the current academic term are published in the Class Schedule and can be searched by Attribute Type. To find Systematic (HS, PS, TS) courses search: 'Geography: Human', 'Geography: Physical' or 'Geography: Techniques'. To find Area Studies (A) courses search: 'Geography: Area Studies'.

5.7 Environment, Earth, and Resources Course Description

EEER 1000 Earth: A User's Guide

Cr. Hrs. 3

This course will present a multi-disciplinary introduction to the Planet Earth as both the source of essential resources and as the site of resulting negative impacts. Focus in the course will be provided by addressing important and current topics, case studies, and concepts that the well-educated citizen of the Earth should understand and will include natural and human-induced processes within a broad range of spatial and temporal scales.

5.8 Geography Course Descriptions 1000 level

GEOG 1280 Introduction to Human Geography

Cr. Hrs. 3

This course studies aspects of the human world: population, settlement and resources. Not to be held with GEOG 1200 or GEOG 1201, or GEOG 1281.

GEOG 1290 Introduction to Physical Geography

Cr. Hrs. 3

This course studies aspects of our physical environment: climate, landforms, soils and vegetation. Not to be held with GEOG 1291 or GEOG 1200 or GEOG 1201.

GEOG 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change

Cr. Hrs. 3

Introduces students to political economy and cultural geography through the close analysis of contemporary world events, including but not limited to instances of violent conflict, environmental change, international negotiations, political processes and events, social movements, and policy developments. A multimedia approach will advance students' understanding of geopolitical events from political economy and spatial perspectives. Specific content of the course will change year-by-year in response to developments in national and world politics. Also offered by the Faculty of Arts as GPE 1700. Students may not hold credit for both GPE 1700 and GEOG 1700.

5.8 Geography Course Descriptions-2000 Level

GEOG 2200 Introduction to Thematic Cartography (TS)

Cr. Hrs. 3

(Lab Required) An introduction to the principles of map compilation and reproduction, including analysis and cartographic display of spatially referenced data. Emphasis will be placed on cartographic data manipulation, generalization, and symbolization, map design, visualization and communication. Not to be held with GEOG 2221. Prerequisite: a grade

of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2272 Natural Hazards (PS) Cr. Hrs. 3

Environmental hazards to human settlement and economy are examined with particular attention to meteorological, soil erosion, mass wasting, earthquake and volcanic phenomena. Not to be held with GEOG 2440. Prerequisite: a grade of C or better in one of GEOG 1290, GEOL 1340, or GEOL 1410, GEOG 1291, GEOG 1200, GEOG 1201, GEOL 1360 or permission of department head.

GEOG 2300 Atmospheric Thermodynamics, Clouds and Precipitation (PS) Cr. Hrs. 3

Critical thermodynamic processes are discussed that are associated with the Earth's atmosphere including dry and moist processes, phases of water, stability, cloud development and precipitation processes. Prerequisites: (GEOG 1290 or GEOG 1291 (C), or (GEOG 1200) or GEOG 1201 (C)), and (MATH 1500 or MATH 1501 (C), or MATH 1510 (C), or MATH 1520 (C), or MATH 1530 (C)).

GEOG 2310 Introduction to Process Hydrology (PS) Cr. Hrs. 3

This course introduces students to the near-surface components of the hydrological cycle, including the processes of precipitation, evaporation, water-biosphere interactions, infiltration, overland and stream flow. Prerequisites: (GEOG 1290 or GEOG 1291 (C), or (GEOG 1200) or GEOG 1201 (C)), and (PHYS 1020 or PHYS 1021 (C), or PHYS 1050 or PHYS 1051 (C), or MATH 1500 or MATH 1501 (C), or MATH 1510 (C), or MATH 1520 (C), or MATH 1530 (C)), or permission of department head.

GEOG 2330 Place, Populations and Mobility: Geographic Perspectives (HS) Cr. Hrs. 3

An examination of the factors controlling the number and distribution of human population. Variations in fertility, mortality and mobility will be analyzed and the causes and consequences reviewed. Not to be held with GEOG 2480. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2372 Geography of Tourism (HS) Cr. Hrs. 3

This course examines the social, economic and environmental dimensions of tourism and recreation. Historical and contemporary experiences from around the world will be studied. Not to be held with GEOG 2410. Prerequisite: a grade of C or better in (GEOG 1200) or GEOG 1280, or permission of department head.

GEOG 2520 Geography of Natural Resources (HS) Cr. Hrs. 3

An introduction to the basic concepts of the subject and the distribution of resources. Stress will be placed on Canadian resources and resource requirements but examples from other resource systems will also be used. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2540 Weather and Climate (PS) Cr. Hrs. 3

This half-course examines the nature, controls, and observations of weather and the variation of climate in time and space. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2550 Geomorphology (PS) Cr. Hrs. 3

This half-course surveys a broad array of landforms in the world and the geomorphic processes responsible for their creation. Attention is strongly focused on those landform processes originating at the earth's surface.

Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1290 or GEOG 1291 (C), or permission of department head.

GEOG 2570 Geography of Canada (A) Cr. Hrs. 3

A regional study of Canada in which the major regions of Canada are studied with respect to geographical patterns of their physical environment, settlement, culture, economic activity, and land use. Not to be held with GEOG 2560, GEOG 2561 or GEOG 3431. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2580 Geography of the United States (A) Cr. Hrs. 3

A regional study of the United States in which the major regions of the United States are studied with respect to geographical patterns of their physical environment, settlement, culture, economic activity, and land use. Not to be held with GEOG 2560, GEOG 2561. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2630 Geography of Culture and Environment (HS) Cr. Hrs. 3

An introduction to the cultural geographic study of environment, focusing on the evolution of landscape, the creation of regions, and human relationships with nature. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 2640 Geography of Culture and Inequality (HS) Cr. Hrs. 3

An introduction to the cultural geographic study of human and place inequalities, focusing on behaviour in landscape, group differences, and human identities. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 2700 Introduction to Arctic System Science Cr. Hrs. 3

This course introduces students to the various components of the Arctic system, including the terrestrial and marine environments, polar atmosphere, biological and chemical oceanography. Prerequisite: GEOG 1290 or (GEOG 1291)(C), or GEOG 1200 or (GEOG 1201)(C) or ENVR 1000 (C) or GEOL 1340 (C).

GEOG 2900 Geography of Canadian Prairie Landscapes (A) Cr. Hrs. 3

This course introduces students to the various geographical themes, concepts and processes within the context of the natural and anthropogenic development of the Canadian prairie region. It traces the evolution of the prairie landscape. It will focus on academic writing in the discipline. Not to be held with GEOG 2450. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2930 Introduction to Oceanography Cr. Hrs. 3

This course provides an introduction to the physical, chemical, biological and geological processes in the world oceans and their interactions with the overall Earth system. This course is interdisciplinary, applying geological, chemical and biological processes to the study of the world's oceans. Prerequisite: A minimum grade of "C" in GEOG 1290 (or GEOG 1291) or GEOG 1200 (or GEOG 1201) or ENVR 1000 or GEOL 1340.

5.8 Geography Course Descriptions-3000 Level

GEOG 3200 Introduction to Remote Sensing (TS) Cr. Hrs. 3

(Lab Required) The course is an introduction to the principles of optical, active and passive microwave remote sensing. A review of satellite and sensors and their geographic applications will be presented, along with digital image analysis techniques. Laboratory assignments will provide hands-on experience in dealing with remote sensing data. Prerequisites:

[(GEOG 1200) or GEOG 1201 (C), or GEOG 1290 or GEOG 1291 (C)], and [PHYS 1020 or PHYS 1021 (C), or PHYS 1050 or PHYS 1051 (C), or MATH 1300 or MATH 1301 (C), or MATH 1500 or MATH 1501 (C)], or permission of department head.

GEOG 3272 Social Vulnerability to Natural Hazards (HS) Cr. Hrs. 3

This course examines differing social vulnerability to natural hazards, before, during and after disasters, including class, gender, age, health, language, and ethnicity. Prerequisite: a grade of C or better in a minimum of 3 credit hours from Geography courses numbered at the 1000 level, or GPE 1700 or GEOL 1340 or GEOL 1410 or permission of department head.

GEOG 3310 Atmospheric Dynamics, Storms and Radar (PS) Cr. Hrs. 3

The course covers the critical dynamic processes that are associated with the Earth's atmosphere including forces that control wind, the kinematics of the wind field, general circulation, hodographs, thermal wind, laws of motion, mid-latitude circulations, convective storms and the utility of weather radar. Prerequisite: GEOG 2300 (C), or permission of department head.

GEOG 3320 Introduction to Microclimates and Micrometeorology (PS) Cr. Hrs. 3

This course introduces the concept of energy balance climatology and examines relationships among climate, microclimate, and environments of the Earth's surface and human-made environments. Studies include bioclimates and hydroclimates. Prerequisites: (GEOG 2310 (C)), and (GEOG 2300 (C)), or permission of department head.

GEOG 3340 Migration and Mobility in a Globalized World Cr. Hrs. 3

This course surveys the geographic dimensions of migration and mobility of populations, with emphasis of contemporary events. Prerequisites: a grade of C or better in GEOG 2330 or (GEOG 2480), or permission of department head.

GEOG 3390 Introduction to Climate Change and Its Causes (PS) Cr. Hrs. 3

The primary objective of this course is to provide students with a general understanding of the physical and astronomical factors that drive global climate change. Focus will be given to current and future climate change in the context of observations and modeling. Not to be held with GEOG 3610. Prerequisite: a minimum of three credit hours from Geography or Environment courses, or permission of department head.

GEOG 3460 Urban Geography (HS) Cr. Hrs. 6

The course studies the processes and trends of urbanization; the classification of cities; central-place theory; cities as systems; land-use patterns; social forces and factorial ecology; and urban transport problems. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 3640 Social Geography of the Environment (HS) Cr. Hrs. 3

This course provides an intermediate-level assessment of current geographical approaches to society and environment. Students are exposed to critical realist, social constructionist, Marxist, feminist and post-Colonial traditions as they are applied to environmental and social justice, globalization and public health. It includes discussion and a community-based learning project. Prerequisite: a grade of C or better in (GEOG 1200 or GEOG 1201) or GEOG 1280 or GEOG 1281, or permission of department head.

GEOG 3730 Geographic Information Systems (TS) Cr. Hrs. 3

(Lab Required) Weekly two-hour lab. The course introduces students to the evolving science, technology and applications of Geographic Information Systems (GIS). Related geospatial technologies such as Global Navigation Satellite Systems and Remote Sensing, as well as the field of Geomatics will be introduced. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography, Geology or Environment courses numbered at the 1000 and/or 2000 level, or permission of instructor or department head. Not to be held with GEOG 2250.

GEOG 3740 Field Studies in Geography (A,TS) Cr. Hrs. 6

A field course designed to introduce students to either a detailed area study or to field techniques employed for specific geographic enquiry. Prerequisite: Permission of department head.

GEOG 3750 Field Studies in Geography (A,TS) Cr. Hrs. 3

A field course designed to introduce students to either a detailed area study or to field techniques employed for specific geographic enquiry. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 3760 Special Topics in Geography Cr. Hrs. 6

This course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: Permission of department head.

GEOG 3770 Special Topics in Geography Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: Permission of department head.

GEOG 3810 Quantitative Research Methods in Geography (TS) Cr. Hrs. 3

This course focuses on the quantitative analytical methods available for the interpretation on physical and human geography applications. May not be held with GEOG 3680. Prerequisite: ENVR 2810 or the former GEOG 2530 or STAT 1000 or STAT 1001, or permission of department head.

GEOG 3850 Sustainable Manitoba (A) Cr. Hrs. 3

This course approaches local sustainability issues from an interdisciplinary perspective. By looking at the ecological, social and economic aspects from a variety of discipline perspectives, a fuller understanding of sustainability is achieved. The broad range of perspectives is achieved through participation of guest speakers from other faculties and outside of the university as well as excursion outside the classroom. Not to be held with ENVR 3850. Prerequisite: 60 credit hours of course work, or permission of department head.

GEOG 3860 Animal Geographies (HS) Cr. Hrs. 3

This course presents a variety of topics concerning the interactions between humans and animals, how humans influence and use animals, and the many roles animals play in human lives and environments. Animal Geographies lies at a meeting point between physical and human geography, where we must consider the blurring boundaries between what it means to be animal/human, and the implications of how animals are used and represented. A wide variety of perspectives, beliefs, and points of view will be explored. Prerequisite: Permission of department head.

GEOG 3870 Food Geographies Cr. Hrs. 3

This course provides a critical examination of the geographies of food at a variety of scales, from the body to the global. The course focuses on themes in three interconnected areas: 1) food production and the global food system from farm to plate including agribusiness and alternative food production and distribution models; 2) food consumption habits and

beliefs and foodways as geographically contingent material culture; and 3) food (in) security and its relationship to health and wellbeing. This course is cross-listed as HNSC 3870. May not be held with HNSC 3870. Prerequisite: a grade of C or better in GEOG 1280 or GEOG 1281 or HNSC 1200 or GEOG 1200, or permission of department head.

GEOG 3920 Biological Oceanography 1: Lower Tropic Levels **Cr. Hrs. 3**

In this course, students will gain a background on the study of biological oceanography. Biological oceanography is a very active and important field of study worldwide due to the spatial coverage and biological activity of the world's oceans. This course examines the interaction of marine organisms with other biological life, as well as with the physical environment. Prerequisite: A minimum grade of "C" in both GEOG 2930 and BIOL 1030.

5.8 Geography Course Descriptions-4000 Level

GEOG 4050 Ecosystem Management **Cr. Hrs. 3**

This course will provide students with an understanding of the practical applications of ecological science, environmental policy, and resource management approaches in the large-scale planning of landscapes. The course will review ecological principles and trace the historical development of the ecosystem concept. Comparisons are made to other possible environmental management approaches. The synthesis of major elements and concepts will be reinforced through case studies on the Manitoba landscape, with an emphasis on practical learning by students through field seminars and group discussions. Not to be held with ENVR 4050. Prerequisite: Permission of department head.

GEOG 4060 Biogeography **Cr. Hrs. 3**

This course will provide students with a general understanding of the historical, ecological, analytical, and conservation aspects of biogeography. The course will also have a dual focus on the principles and concepts of reasons for the distribution of plants and animals worldwide, as well as incorporating discussion on as many local (Manitoba, Canada, North America) examples as possible. Not to be held with ENVR 4060. Prerequisite: Permission of department head.

GEOG 4200 Advanced Methods in Remote Sensing **Cr. Hrs. 3**

(Lab Required) Provides instruction in the current theory and application of remote sensing technology to Earth system Science. Emphasis will be placed on the processing and interpretation of remote sensing imagery and the integration of remote sensing data with other spatial data. Prerequisite: GEOG 3200 (C), or permission of department head.

GEOG 4260 Sacred Lands **Cr. Hrs. 3**

Students will increase their understanding of the importance and significance of Sacred Lands and Sacred Spaces to International Indigenous Peoples. Experiential learning, seminars, and a field component may be included. Not to be held with NATV 4260. Prerequisite: Permission of department head.

GEOG 4280 Gender and the Human Environment **Cr. Hrs. 3**

This upper-level seminar course will develop in students a depth and breadth of understanding appropriate to the honours undergraduate/graduate level in the area of gender geography scholarship. From critical social science theoretical positions, this course asks students to examine what we can learn about how humans live on the earth if we see them as gendered. Just as we may also understand humans and their interactions in and with spaces, places and environments through the lenses of race, ethnicity, class, age and/or combinations of these categories with gender. Prerequisite: a grade of C or better in a minimum of six credit hours in Geography, or permission of department head.

GEOG 4290 Geographies of Health and Health Care **Cr. Hrs. 3**

This course provides an introduction to and critical examination of the geographies of health and healthcare. Topics include perceptions and determinations of health and health care; health care delivery, focusing on spatial patterns and inequities; and the relationship between environment and health, particularly impacts of environmental contamination. Prerequisite: Permission of department head.

GEOG 4300 Synoptic Meteorology and Weather Analysis **Cr. Hrs. 3**

Applied aspects of meteorology are described in terms of weather analysis and forecasting techniques for synoptic-scales and meso-scales using various meteorological tools. An introduction to severe weather forecasting techniques will also be described. Prerequisite: GEOG 3310 (C), or permission of department head.

GEOG 4310 Boundary-Layer Climatology and Micrometeorology **Cr. Hrs. 3**

A seminar course on advanced topics in microclimatology and micrometeorology. Prerequisite: GEOG 3320 (C), or permission of department head.

GEOG 4330 Concepts in Atmospheric Modeling **Cr. Hrs. 3**

This course will primarily focus on numerical modeling applications and techniques of the Earth's atmosphere with an emphasis on weather prediction. This includes understanding basic modeling terminology, numerical schemes, structure of models, types of models, what is required to run a model, and an introduction to data assimilation and ensemble techniques to weather prediction. Not to be held with GEOG 4320. Prerequisite: GEOG 3310 (C) or GEOG 3320 (C), or permission of department head.

GEOG 4350 Parks and Protected Areas Planning and Management: Field Studies **Cr. Hrs. 6**

The course is taught in two segments, an on-campus component and field study component taking place in Banff National Park. The on-campus component examines the historical development of the concept of parks and protected areas, the role of interpretation, management and research in the parks and emerging issues in the management of parks and protected areas. In addition, during the on-campus component planning for the field will take place. The field segment will focus on a wide variety of management issues with particular attention to Banff National Park. Emerging issues and trends will be examined and past management responses evaluated. There will be opportunities for students to investigate specific management issues of interest to them and to participate in current research being conducted in the park. This course is also offered in the Faculty of Kinesiology and Recreation Management as REC 4350. Prerequisite: Permission of department head.

GEOG 4390 Global Climate Change **Cr. Hrs. 3**

Students will be introduced to the complexities of climate changes through a series of introductory lectures and reading assignments that focus on recent scientific publications and review articles (mathematical skills are not required). Both sides of the climate change debate will be addressed in weekly assignments, and students will defend their conclusions in classroom discussion. Each student will take on a project in some aspect of climate change -- glaciers, sea ice, temperature trends, precipitation, agriculture, animal migration, aerosols, or a regional impact. Prerequisite: a grade of C or better in GEOG 3390 (or GEOG 3610), or permission of department head.

GEOG 4560 Techniques in Climatology **Cr. Hrs. 3**

Instrumentation, the sources of climatic data, and the use of satellite photography, as well as methods of analysis and presentation are discussed. Prerequisite: GEOG 3320 (C), or permission of department head.

GEOG 4650 Models in Regional Analysis **Cr. Hrs. 3**

Emphasis is placed on the use of regression techniques in regional analysis including the classical ordinary least squares methods and two-stage least squares. Migration and industrial location models are developed and calibrated using these techniques. Prerequisite: Permission of department head.

GEOG 4660 Honours Thesis **Cr. Hrs. 6**

This course involves the production of a thesis under the supervision of a department faculty member. Prerequisite: Permission of department head.

GEOG 4670 Selected Issues **Cr. Hrs. 3**

Intensive study of selected geographic issues. Prerequisite: Prearranged written consent of an individual instructor and permission of department head.

GEOG 4780 Storms-Mesoscale **Cr. Hrs. 3**

This course focuses on a range of storms and mesoscale phenomena in the summer or winter. These include thunderstorms, tornadoes, squall lines, lightning, low level jets, gust fronts, blizzards, freezing rain, orographic storm, and polar lows. The emphasis is on the physical mechanisms leading to these events and it also examines how they may change in our changing climate. Not to be held for credit with GEOG 7780. Prerequisite: A grade of "C" or better in GEOG 3310 or permission of department head.

GEOG 4872 Advanced Methods in Geomatics **Cr. Hrs. 3**

This course focuses on the theory and application of geomatics in spatial problem solving in geography and the environment. The use of geomatics' technologies including GIS, Earth observation and spatial numerical methods will be covered. Students will learn the theoretical underpinning of spatial statistical concepts and will experiment with data exploration, inference and hypothesis testing. Lab assignments will provide practical experience with GIS and other geomatics software as well as CRAN-R. Not to be held with ENVR 4872, GEOG 4590 or GEOG 4720. Prerequisite: GEOG 3730 or permission of Instructor.

GEOG 4930 Oceanography: Chemical **Cr. Hrs. 3**

This course deals with the sources, distribution, and transformation of chemical constituents of the oceans, and the processes that control them. The emphasis will be given to biologically or climatically significant elements such as carbon, nitrogen, phosphorus, iron and mercury in the Arctic Ocean. Prerequisite: ENVR 2550 and GEOG 2930 or permission by department head.

GEOG 4940 Artic Sea Ice **Cr. Hrs. 3**

This course aims to (i) provide students with a strong background on the importance and current knowledge of Arctic sea ice and (ii) train students on current field techniques used in research pertaining to sea ice-related investigations. To attain these goals, the course will combine field safety training, classroom lectures and assignments, and direct field experience through a field trip pertaining to physical and biogeochemical processes of the snow-covered sea-ice environment. Prerequisite: permission of the instructor.

GEOG 4960 Oceanography: Biological II Higher Trophic Levels **Cr. Hrs. 3**

This course will examine the oceanographic-biological coupling occurring in the Arctic region, focusing on environmental conditions related to higher trophic levels and impacts of climate change. This course will extend the learning of the 3000-level course that examines biological oceanography,

which focuses on the environmental factors that control primary production and lower trophic levels in the world's oceans. Prerequisite: A minimum grade of "C" in both GEOG 3920 and a 2000- level BIOL course or permission of instructor.

SECTION 6: Bachelor of Science in Physical Geography Degree Regulations, Program Description and Courses Offered by

Head: Mark Hanson

Campus Address/General Office: 220 Sinnott Building

Email Address: environment_geography@umanitoba.ca

Telephone: (204) 474-9667

Fax: (204) 261-0038

Website: umanitoba.ca/environment/departments/geography

6.1 Program Information

Physical Geography includes the study of the environment through aspects of atmospheric science, geomorphology, biogeography, and hydrology, all of which draw upon the natural and applied sciences to understand the natural environment. Atmospheric sciences examine the physical and biophysical processes at and near the earth's surface shaping climate and determining the weather. These processes are examined over cascading scales, local to global. Hydrology studies the flow of water between the Earth's surface and the atmosphere, including the quantity and quality of water resources as well as the spatial variability in the hydrologic cycle. The examination of processes at the earth's surface and the associated landforms is called geomorphology. Various sub-disciplines in geomorphology include weathering and erosional processes, volcanoes, glacial and river systems. Biogeography studies the interrelationships between the biospheric environment and the physical environment. Formation of soils, ecosystem and biome cycles and components, as well as human interaction with the physical environment are all topical areas in biogeography.

Geomatics is an emerging field referring to the techniques of spatial data acquisition, handling, and analysis. Included within this field have been geographic applications of computer analysis and spatial modeling, spatial statistics, remote sensing technology, and geographic information systems. Many of these techniques have their origins in the applied sciences, but both physical and human geographers have contributed greatly to their development and application. The application of such methodologies in geographic fields, such as resource management, urban geography, climate change, and applied geography has also provided closer co-operation between human and physical geography, as well as promoting considerable interdisciplinary research with other University disciplines.

The Major and Honours B.Sc. degree programs in Physical Geography serve students who desire advanced study in the academic subject matter of various themes contained within Physical Geography. The Honours program in particular is intended for students interested in the opportunity for exposure to advanced geographic research. As such, the Honours program demands higher academic performance. Students who are ineligible to enter Honours in their second year may establish this in the following year on the basis of their improved scholastic performance. The degree programs may be pursued on a full or part-time basis.

Minor in Another Department

Students in the B.Sc. Physical Geography have the opportunity to complete a Minor in a subject field that is different than that of the declared Major, and which normally consist of 18 credit hours from a department offering this option at the University of Manitoba. Students in the B.Sc. Physical Geography are not permitted to complete a Minor in Geography. Students

can declare only one Minor. The Minor requirements are described in section 3.2 of this Chapter. Contact a [Riddell Faculty student advisor](#) in the Faculty Dean's Office for further information about eligible Minors.

Streams

Students are required to complete a stream approved by a Riddell Faculty student advisor. Students in the Major or Major (Coop) programs are required to complete a minimum of 30 credit hours of 2000- (or higher) level courses, of which at least 18 credit hours must be at or above the 3000-level. The B.Sc. Honours and Honours (Coop) programs require students to complete 39 credit hours in a Stream, of which at least 24 credit hours are defined at or above the 3000-level and must include *GEOG 4660 Honours Thesis (6)*. Streams are currently available in *Atmospheric and Hydrological Sciences, Geomatics and Physical Geography*. See a [Riddell Faculty student advisor](#) for current information about these Streams.

Major

To qualify for the degree, Bachelor of Science in Physical Geography (Major), a student must complete 120 credit hours with passing grades ('D' or better) and a minimum degree grade point average of 2.00. Major (Coop) students must attain a minimum degree Grade Point Average of 2.50. Students must complete all faculty requirements. There is no limit to the number of credit hours a student completes provided he/she does not exceed 18 credit hours of failed courses.

Honours

To qualify for the degree Bachelor of Science in Physical Geography (Honours and Honours Coop), a student must complete 120 credit hours with passing grades ('D' or better) and a minimum degree grade point average of 3.00 in the courses that constitute the degree. Students must complete all faculty requirements. There is no limit to the number of credit hours a student completes provided he/she does not exceed 18 credit hours of failed courses.

6.2 Advanced Entry Requirements

Advanced Entry students are placed in the Major degree program until they have completed a minimum of 48 credit hours after which they may transfer to the Honours program or remain in the Major. To make a program transfer, students must consult a [Riddell Faculty student advisor](#).

6.2.1 Advanced Entry Requirements

| Degree Program in Physical Geography | Minimum Number of Credit Hours | Minimum Degree Grade Point Average | Additional Entrance Requirements |
|--------------------------------------|--------------------------------|------------------------------------|--|
| Honours | 48 | 3.00 | A grade of 'B' or better in GEOG 1290 ³ ; a grade of 'C+' or better in 12 credit hours from GEOL 1340, PHYS 1020 ³ (or PHYS 1050), MATH 1500 ^{2,3} , PHYS 1030 (or PHYS 1070), MATH 1300 ³ (or MATH 1310) |
| Honours (Coop) ¹ | 60 | 3.00 | ENVR 2900; students must satisfy the requirements for Entrance/continuation in the regular program and (normally) have completed GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2550, GEOG 3730, PHYS 1020 ³ (or PHYS 1050), PHYS 1030 (or PHYS 1070), |

| | | | |
|---------------------------|----|------|--|
| | | | MATH 1300 ³ (or MATH 1310) and MATH 1500 ^{2,3} |
| Major | 24 | 2.00 | A grade of 'C' or better in GEOG 1290 ³ ; a grade of 'C+' or better in 6 credit hours from GEOL 1340, PHYS 1020 ³ (or PHYS 1050) and MATH 1500 ^{2,3} , PHYS 1030 (or PHYS 1070), MATH 1300 ³ (or MATH 1310) |
| Major (Coop) ¹ | 60 | 2.50 | ENVR 2900; students must satisfy the requirements for Entrance/continuation in the regular program and (normally) have completed GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2550, GEOG 3730, PHYS 1020 ³ (or PHYS 1050), PHYS 1030 ³ (or PHYS 1070), MATH 1300 ³ (or MATH 1310) and MATH 1500 ^{2,3} |

¹Students may be permitted to enter the program without satisfying all requirements listed. Students should consult with the Cooperative Education Coordinator for further information.

²MATH 1510 or MATH 1520 or MATH 1690 may be used in lieu of MATH 1500.

³Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number 1.

6.3 Minimum Performance Requirements for Continuation and Graduation

A student's academic performance will be assessed with his/her application for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources and following each *term* thereafter. A Riddell Faculty student advisor must approve a student's registration each Fall/Winter term. Any revisions in this schedule should also be approved prior to the end of the registration revision period.

To be in **good standing** and permitted to continue in a degree program, a student must achieve the minimum standards at each point of assessment. This assessment is based on the student's minimum degree Grade Point Average; the grades received in each of GEOG 1290 (or GEOG 1291), GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2550, GEOG 3730, GEOG 3810; and the number of failed courses after admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources.

6.3.1 Minimum Performance Requirements

| Minimum Performance Requirements | | | | Graduation Requirements ¹ | |
|----------------------------------|---------------------------------------|------------------------------------|--|--------------------------------------|---------------------|
| Degree Program (Credit Hours) | Min Degree Grade Point Average (DGPA) | Max Credit Hours of Failed Courses | Physical Geography Core: Min Grade Requirements in | Stream (2000-Level or Higher) | Coop Option Courses |
| | | | GEOG 1290 ² , GEOG 2200 ² , GEOG 2300, GEOG 2310, GEOG 2272, GEOG 2550, GEOG 3730, GEOG 3810 | | |

| | | | | | |
|--|------|----|---|--|--|
| Honours (120) | 3.00 | 18 | 'B' in GEOG 1290; 'C+' grades in others | 39 credit hours of which at least 24 credit hours must be at the 3000-level or higher; completion of GEOG 4660; minimum 'C+' grade in each course. | |
| Honours Coop (120) | 3.00 | 18 | 'B' in GEOG 1290; 'C+' grades in others | 39 credit hours of which at least 24 credit hours must be at the 3000-level or higher; completion of GEOG 4660; minimum 'C+' grade in each course. | ENVR 2900, ENVR 3900, ENVR 3910, ENVR 3980, ENVR 3920, ENVR 3990; (ENVR 4910 and ENVR 4980 are optional) |
| Major (120) | 2.00 | 18 | 'C' | 30 credit hours of which at least 18 credit hours must be at the 3000-level or higher; minimum Degree GPA of 2.00. | |
| Major Coop (120) | 2.50 | 18 | 'C' | 30 credit hours of which at least 18 credit hours must be at the 3000-level or higher; minimum Degree GPA of 2.00. | ENVR 2900, ENVR 3900, ENVR 3910, ENVR 3980, ENVR 3920, ENVR 3990; (ENVR 4910 and ENVR 4980 are optional) |
| <p>¹B.Sc. Physical Geography students must successfully complete a minimum of 60 credit hours at the University of Manitoba to satisfy the Residence Requirement. The courses used to satisfy the requirement must be acceptable for credit in the Clayton H. Riddell Faculty of Environment, Earth, and Resources.</p> <p>²Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number 1.</p> | | | | | |

intended degree designation, a student must achieve the minimum standards and graduation requirements outlined above in 6.3.1 following the final term of registration and satisfy all degree course requirements in the foundation, physical geography core and Stream.

Students in the Honours program who do not meet these minimum performance requirements for continuation or graduation will be withdrawn from the degree program and placed in the Major provided they are eligible based on their performance. Students who do not meet the minimum performance requirements of the Major will be placed on academic warning, probation or academic suspension as defined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this Chapter.

Students withdrawn from the Honours program as a result of their inability to meet minimum performance requirements will have the notation, 'Required to Withdraw from the Honours Program,' recorded on their transcript. Similarly, students withdrawn from the Major program will have the notation, 'Required to Withdraw from the Major Program,' recorded on their transcript.

6.4 Graduating with Distinction or First Class Honours

With Distinction

Students graduating with a B.Sc. Physical Geography (Major) degree will have their degree granted 'With Distinction' if they have a minimum Degree Grade Point Average of 3.50 on all course work.

The term 'Degree with Distinction' will appear both on the parchment and on the student's transcript.

First Class Honours

Students in the Honours program will have their degree granted with 'First Class Honours' if they have a minimum Degree Grade Point Average of 3.50 based on all acceptable course work. The term First Class Honours will appear both on the parchment and on the student's transcript.

6.5. B.Sc. Physical Geography Program Chart

| Bachelor of Science in Physical Geography ^{2,7} | | | |
|---|--|--|--|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS¹ 120 CREDIT HOURS | | | |
| GEOG 1290, PHYS 1020 ³ , MATH 1500 ⁴ PHYS 1030 ³ , MATH 1300 ⁴ ; or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ Plus 6 credit hours from the Faculty of Arts | GEOG 2200, GEOG 2300, GEOG 2540, GEOG 2550, ENVR 2810 ¹⁰ Whichever of, PHYS 1030 ³ , MATH 1300 ⁴ , or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | GEOG 2272 ⁸ , GEOG 3730, GEOG 3810 ⁹ 9 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | GEOG 4660 Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of courses. | | | |

To **graduate** from the Bachelor Science in Physical Geography with the

Plus a **Stream** approved by a Riddell Faculty student advisor. Honours Stream requirements are as follows: 33 credit hours of 2000- (or higher) level courses, of which 24 credit hours must be at the 3000- or 4000-level.

HONOURS COOPERATIVE OPTION¹ 120 CREDIT HOURS

| | | | |
|---|---|--|---|
| GEOG 1290, PHYS 1020 ³ , MATH 1500 ⁴ | GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2540, GEOG 2550, ENVR 2810 ¹⁰ , ENVR 2900 | GEOG 2272 ⁸ , GEOG 3730, GEOG 3810 ⁹ , ENVR 3900, ENVR 3980, ENVR 3910 | GEOG 4660 ENVR 3990, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional) Enough elective credit to total 120 credit hours for the program. |
| PHYS 1030 ³ , MATH 1300 ⁴ ; or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ | Whichever of, PHYS 1030 ³ , MATH 1300 ⁴ , or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | 9 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | |

The W course must be completed within the first 60 credit hours of courses.

Plus a **Stream** approved by a Riddell Faculty student advisor. Honours Stream requirements are as follows: 33 credit hours of 2000- (or higher) level courses, of which 24 credit hours must be at the 3000- or 4000-level.

MAJOR¹ 120 CREDIT HOURS

| | | | |
|---|---|--|---|
| GEOG 1290, PHYS 1020 ³ , MATH 1500 ⁴ | GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2540, GEOG 2550, ENVR 2810 | GEOG 2272 ⁸ , GEOG 3730, GEOG 3810 ⁹ | Enough elective credit to total 120 credit hours for the program. |
| PHYS 1030 ³ , MATH 1300 ⁴ ; or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ | Whichever of, PHYS 1030 ³ , MATH 1300 ⁴ , or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | 9 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | |

The W course must be completed within the first 60 credit hours of courses.

Plus a **Stream** approved by a Riddell Faculty student advisor. Major Stream requirements are as follows: 30 credit hours of 2000- (or higher) level courses, of which 18 credit hours must be at the 3000- or 4000-level.

MAJOR COOPERATIVE OPTION¹ 120 CREDIT HOURS

| | | | |
|---|--|--|---|
| GEOG 1290, PHYS 1020 ³ , MATH 1500 ⁴ | GEOG 2200, GEOG 2300, GEOG 2310, GEOG 2540, GEOG 2550, ENVR 2810 ¹⁰ , ENVR 2900 | GEOG 2272 ⁸ , GEOG 3730, GEOG 3810 ⁹ , ENVR 3900, ENVR 3980, ENVR 3910 | ENVR 3990, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional) Enough elective credit to total 120 credit hours |
| PHYS 1030 ³ , MATH 1300 ⁴ ; or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ | Whichever of, PHYS 1030 ³ , MATH 1300 ⁴ , or 6 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1020 ⁶ , BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | 9 credit hours from GEOL 1340 ⁵ , COMP 1010, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | |

| | | | |
|--|---|--|------------------|
| Plus 6 credit hours from the Faculty of Arts | 1300, CHEM 1310, STAT 1000, STAT 2000, BIOL 1020 ⁶ , BIOL 1030 ⁶ , MATH 1700 ⁴ not yet taken | 1030 ⁶ , MATH 1700 ⁴ not yet taken | for the program. |
|--|---|--|------------------|

The W course must be completed within the first 60 credit hours of courses.

Plus a **Stream** approved by a Riddell Faculty student advisor. Major Stream requirements are as follows: 30 credit hours of 2000- (or higher) level courses, of which 18 credit hours must be at the 3000- or 4000-level.

MINOR 18 CREDIT HOURS

GEOG 1290
15 credit hours selected from 2000-, 3000-, or 4000-level courses designated as Physical Geography (PS) or Techniques (TS) courses in the Geography course descriptions defined in sections 5.6 in this *Chapter*.

NOTES:

- ¹ Entrance into the degree programs is summarized in 6.2.1 in this Chapter.
- ² The courses required in this program will satisfy the University Mathematics requirement.
- ³ PHYS 1050 and PHYS 1070 may be used in lieu of PHYS 1020 and PHYS 1030, respectively.
- ⁴ MATH 1230, MATH 1510 or MATH 1520 may be used in lieu of MATH 1500; or MATH 1690 may be used in place of MATH 1500 (or equivalent) and MATH 1700; or MATH 1310 may be used in lieu of MATH 1300; or MATH 1232 or MATH 1710 may be used in lieu of MATH 1700.
- ⁵ GEOL 1440 may be used in lieu of GEOL 1340.
- ⁶ BIOL 1000 and BIOL 1010 may be used in lieu of BIOL 1020 and BIOL 1030.
- ⁷ Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number 1 (e.g. GEOG 1291).
- ⁸ The former GEOG 2440 may be used in lieu of GEOG 2272.
- ⁹ The former GEOG 3680 may be used in lieu of GEOG 3810.
- ¹⁰ The former GEOG 2530 may be used in lieu of ENVR 2810.

Note:

To fulfil prerequisite requirements a grade of 'C' must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course.

Students should review the course topics available for GEOG 3740 (6), GEOG 3750 (3), GEOG 3760 (6), GEOG 3770 (3) and GEOG 4670 (3). Also, all courses are not offered every year. The course schedule for the current academic term is available from the Class Schedule.

Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the [Department of Environment and Geography](#) general office.

IMPORTANT: The Honours and Major programs need not be completed in the course order described in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

6.6 Environment, Earth, and Resources Course Description

EER 1000 Earth: A User's Guide

Cr. Hrs. 3

This course will present a multi-disciplinary introduction to the Planet Earth as both the source of essential resources and as the site of resulting negative impacts. Focus in the course will be provided by addressing important and current topics, case studies, and concepts that the well-educated citizen of the Earth should understand and will include natural and human-induced processes within a broad range of spatial and temporal scales.

6.7 Geography Course Descriptions-1000 Level

GEOG 1280 Introduction to Human Geography **Cr. Hrs. 3**

This course studies aspects of the human world: population, settlement and resources. Not to be held with GEOG 1200 or GEOG 1201, or GEOG 1281.

GEOG 1290 Introduction to Physical Geography **Cr. Hrs. 3**

This course studies aspects of our physical environment: climate, landforms, soils and vegetation. Not to be held with GEOG 1291 or GEOG 1200 or GEOG 1201.

GEOG 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change **Cr. Hrs. 3**

Introduces students to political economy and cultural geography through the close analysis of contemporary world events, including but not limited to instances of violent conflict, environmental change, international negotiations, political processes and events, social movements, and policy developments. A multimedia approach will advance students' understanding of geopolitical events from political economy and spatial perspectives. Specific content of the course will change year-by-year in response to developments in national and world politics. Also offered by the Faculty of Arts as GPE 1700. Students may not hold credit for both GPE 1700 and GEOG 1700.

6.7 Geography Course Descriptions-2000 Level

GEOG 2200 Introduction to Thematic Cartography (TS) **Cr. Hrs. 3**

(Lab Required) An introduction to the principles of map compilation and reproduction, including analysis and cartographic display of spatially referenced data. Emphasis will be placed on cartographic data manipulation, generalization, and symbolization, map design, visualization and communication. Not to be held with GEOG 2221. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2272 Natural Hazards (PS) **Cr. Hrs. 3**

Environmental hazards to human settlement and economy are examined with particular attention to meteorological, soil erosion, mass wasting, earthquake and volcanic phenomena. Not to be held with GEOG 2440. Prerequisite: a grade of C or better in one of GEOG 1290, GEOL 1340, or GEOL 1410, GEOG 1291, GEOG 1200, GEOG 1201, GEOL 1360 or permission of department head.

GEOG 2300 Atmospheric Thermodynamics, Clouds and Precipitation (PS) **Cr. Hrs. 3**

Critical thermodynamic processes are discussed that are associated with the Earth's atmosphere including dry and moist processes, phases of water, stability, cloud development and precipitation processes. Prerequisites: (GEOG 1290 or GEOG 1291 (C), or (GEOG 1200) or GEOG 1201 (C)), and (MATH 1500 or MATH 1501 (C), or MATH 1510 (C), or MATH 1520 (C), or MATH 1530 (C)).

GEOG 2310 Introduction to Process Hydrology (PS) **Cr. Hrs. 3**

This course introduces students to the near-surface components of the hydrological cycle, including the processes of precipitation, evaporation, water-biosphere interactions, infiltration, overland and stream flow.

Prerequisites: (GEOG 1290 or GEOG 1291 (C), or (GEOG 1200) or GEOG 1201 (C)), and (PHYS 1020 or PHYS 1021 (C), or PHYS 1050 or PHYS 1051 (C), or MATH 1500 or MATH 1501 (C), or MATH 1510 (C), or MATH 1520 (C), or MATH 1530 (C)), or permission of department head.

GEOG 2330 Place, Populations and Mobility: Geographic Perspectives (HS) **Cr. Hrs. 3**

An examination of the factors controlling the number and distribution of human population. Variations in fertility, mortality and mobility will be analyzed and the causes and consequences reviewed. Not to be held with GEOG 2480. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2372 Geography of Tourism (HS) **Cr. Hrs. 3**

This course examines the social, economic and environmental dimensions of tourism and recreation. Historical and contemporary experiences from around the world will be studied. Not to be held with GEOG 2410. Prerequisite: a grade of C or better in (GEOG 1200) or GEOG 1280, or permission of department head.

GEOG 2520 Geography of Natural Resources (HS) **Cr. Hrs. 3**

An introduction to the basic concepts of the subject and the distribution of resources. Stress will be placed on Canadian resources and resource requirements but examples from other resource systems will also be used. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2540 Weather and Climate (PS) **Cr. Hrs. 3**

This half-course examines the nature, controls, and observations of weather and the variation of climate in time and space. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2550 Geomorphology (PS) **Cr. Hrs. 3**

This half-course surveys a broad array of landforms in the world and the geomorphic processes responsible for their creation. Attention is strongly focused on those landform processes originating at the earth's surface. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1290 or GEOG 1291 (C), or permission of department head.

GEOG 2570 Geography of Canada (A) **Cr. Hrs. 3**

A regional study of Canada in which the major regions of Canada are studied with respect to geographical patterns of their physical environment, settlement, culture, economic activity, and land use. Not to be held with GEOG 2560, GEOG 2561 or GEOG 3431. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2580 Geography of the United States (A) **Cr. Hrs. 3**

A regional study of the United States in which the major regions of the United States are studied with respect to geographical patterns of their physical environment, settlement, culture, economic activity, and land use. Not to be held with GEOG 2560, GEOG 2561. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2630 Geography of Culture and Environment (HS) **Cr. Hrs. 3**

An introduction to the cultural geographic study of environment, focusing on the evolution of landscape, the creation of regions, and human relationships with nature. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 2640 Geography of Culture and Inequality (HS) Cr. Hrs. 3

An introduction to the cultural geographic study of human and place inequalities, focusing on behaviour in landscape, group differences, and human identities. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 2700 Introduction to Arctic System Science Cr. Hrs. 3

This course introduces students to the various components of the Arctic system, including the terrestrial and marine environments, polar atmosphere, biological and chemical oceanography. Prerequisite: GEOG 1290 or (GEOG 1291)(C), or GEOG 1200 or (GEOG 1201)(C) or ENVR 1000 (C) or GEOL 1340 (C).

GEOG 2900 Geography of Canadian Prairie Landscapes (A) Cr. Hrs. 3

This course introduces students to the various geographical themes, concepts and processes within the context of the natural and anthropogenic development of the Canadian prairie region. It traces the evolution of the prairie landscape. It will focus on academic writing in the discipline. Not to be held with GEOG 2450. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 2930 Introduction to Oceanography Cr. Hrs. 3

This course provides an introduction to the physical, chemical, biological and geological processes in the world oceans and their interactions with the overall Earth system. This course is interdisciplinary, applying geological, chemical and biological processes to the study of the world's oceans. Prerequisite: A minimum grade of "C" in GEOG 1290 (or GEOG 1291) or GEOG 1200 (or GEOG 1201) or ENVR 1000 or GEOL 1340.

6.7 Geography Course Descriptions-3000 Level**GEOG 3200 Introduction to Remote Sensing (TS) Cr. Hrs. 3**

(Lab Required) The course is an introduction to the principles of optical, active and passive microwave remote sensing. A review of satellite and sensors and their geographic applications will be presented, along with digital image analysis techniques. Laboratory assignments will provide hands-on experience in dealing with remote sensing data. Prerequisites: [(GEOG 1200) or GEOG 1201 (C), or GEOG 1290 or GEOG 1291 (C)], and [PHYS 1020 or PHYS 1021 (C), or PHYS 1050 or PHYS 1051 (C), or MATH 1300 or MATH 1301 (C), or MATH 1500 or MATH 1501 (C)], or permission of department head.

GEOG 3272 Social Vulnerability to Natural Hazards (HS) Cr. Hrs. 3

This course examines differing social vulnerability to natural hazards, before, during and after disasters, including class, gender, age, health, language, and ethnicity. Prerequisite: a grade of C or better in a minimum of 3 credit hours from Geography courses numbered at the 1000 level, or GPE 1700 or GEOL 1340 or GEOL 1410 or permission of department head.

GEOG 3310 Atmospheric Dynamics, Storms and Radar (PS) Cr. Hrs. 3

The course covers the critical dynamic processes that are associated with the Earth's atmosphere including forces that control wind, the kinematics of the wind field, general circulation, hodographs, thermal wind, laws of motion, mid-latitude circulations, convective storms and the utility of weather radar. Prerequisite: GEOG 2300 (C), or permission of department head.

GEOG 3320 Introduction to Microclimates and Micrometeorology (PS) Cr. Hrs. 3

This course introduces the concept of energy balance climatology and examines relationships among climate, microclimate, and environments of the Earth's surface and human-made environments. Studies include bioclimates and hydroclimates. Prerequisites: (GEOG 2310 (C)), and (GEOG 2300 (C)), or permission of department head.

GEOG 3340 Migration and Mobility in a Globalized World Cr. Hrs. 3

This course surveys the geographic dimensions of migration and mobility of populations, with emphasis of contemporary events. Prerequisites: a grade of C or better in GEOG 2330 or (GEOG 2480), or permission of department head.

GEOG 3390 Introduction to Climate Change and Its Causes (PS) Cr. Hrs. 3

The primary objective of this course is to provide students with a general understanding of the physical and astronomical factors that drive global climate change. Focus will be given to current and future climate change in the context of observations and modeling. Not to be held with GEOG 3610. Prerequisite: a minimum of three credit hours from Geography or Environment courses, or permission of department head.

GEOG 3460 Urban Geography (HS) Cr. Hrs. 6

The course studies the processes and trends of urbanization; the classification of cities; central-place theory; cities as systems; land-use patterns; social forces and factorial ecology; and urban transport problems. Prerequisite: (GEOG 1200) or GEOG 1201 (C), or GEOG 1280 or GEOG 1281 (C), or permission of department head.

GEOG 3640 Social Geography of the Environment (HS) Cr. Hrs. 3

This course provides an intermediate-level assessment of current geographical approaches to society and environment. Students are exposed to critical realist, social constructionist, Marxist, feminist and post-Colonial traditions as they are applied to environmental and social justice, globalization and public health. It includes discussion and a community-based learning project. Prerequisite: a grade of C or better in (GEOG 1200 or GEOG 1201) or GEOG 1280 or GEOG 1281, or permission of department head.

GEOG 3730 Geographic Information Systems (TS) Cr. Hrs. 3

(Lab Required) Weekly two-hour lab. The course introduces students to the evolving science, technology and applications of Geographic Information Systems (GIS). Related geospatial technologies such as Global Navigation Satellite Systems and Remote Sensing, as well as the field of Geomatics will be introduced. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography, Geology or Environment courses numbered at the 1000 and/or 2000 level, or permission of instructor or department head. Not to be held with GEOG 2250.

GEOG 3740 Field Studies in Geography (A,TS) Cr. Hrs. 6

A field course designed to introduce students to either a detailed area study or to field techniques employed for specific geographic enquiry. Prerequisite: Permission of department head.

GEOG 3750 Field Studies in Geography (A,TS) Cr. Hs. 3

A field course designed to introduce students to either a detailed area study or to field techniques employed for specific geographic enquiry. Prerequisite: a grade of C or better in a minimum of three credit hours from Geography courses numbered at the 1000 level, or permission of department head.

GEOG 3760 Special Topics in Geography Cr. Hrs. 6

This course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: Permission of department head.

GEOG 3770 Special Topics in Geography Cr. Hrs. 3

This course will vary from year to year depending on the needs of students and the interests of instructors. Prerequisite: Permission of department head.

GEOG 3810 Quantitative Research Methods in Geography (TS) Cr. Hrs. 3

This course focuses on the quantitative analytical methods available for the interpretation on physical and human geography applications. May not be held with GEOG 3680. Prerequisite: ENVR 2810 or the former GEOG 2530 or STAT 1000 or STAT 1001, or permission of department head.

GEOG 3850 Sustainable Manitoba (A) Cr. Hrs. 3

This course approaches local sustainability issues from an interdisciplinary perspective. By looking at the ecological, social and economic aspects from a variety of discipline perspectives, a fuller understanding of sustainability is achieved. The broad range of perspectives is achieved through participation of guest speakers from other faculties and outside of the university as well as excursion outside the classroom. Not to be held with ENVR 3850. Prerequisite: 60 credit hours of course work, or permission of department head.

GEOG 3860 Animal Geographies (HS) Cr. Hrs. 3

This course presents a variety of topics concerning the interactions between humans and animals, how humans influence and use animals, and the many roles animals play in human lives and environments. Animal Geographies lies at a meeting point between physical and human geography, where we must consider the blurring boundaries between what it means to be animal/human, and the implications of how animals are used and represented. A wide variety of perspectives, beliefs, and points of view will be explored. Prerequisite: Permission of department head.

GEOG 3870 Food Geographies Cr. Hrs. 3

This course provides a critical examination of the geographies of food at a variety of scales, from the body to the global. The course focuses on themes in three interconnected areas: 1) food production and the global food system from farm to plate including agribusiness and alternative food production and distribution models; 2) food consumption habits and beliefs and foodways as geographically contingent material culture; and 3) food (in) security and its relationship to health and wellbeing. This course is cross-listed as HNSC 3870. May not be held with HNSC 3870. Prerequisite: a grade of C or better in GEOG 1280 or GEOG 1281 or HNSC 1200 or GEOG 1200, or permission of department head.

GEOG 3920 Biological Oceanography 1: Lower Trophic Levels Cr. Hrs. 3

In this course, students will gain a background on the study of biological oceanography. Biological oceanography is a very active and important field of study worldwide due to the spatial coverage and biological activity of the world's oceans. This course examines the interaction of marine organisms with other biological life, as well as with the physical environment. Prerequisite: A minimum grade of "C" in both GEOG 2930 and BIOL 1030.

6.7 Geography Course Descriptions-4000 Level

GEOG 4050 Ecosystem Management Cr. Hrs. 3

This course will provide students with an understanding of the practical applications of ecological science, environmental policy, and resource management approaches in the large-scale planning of landscapes. The

course will review ecological principles and trace the historical development of the ecosystem concept. Comparisons are made to other possible environmental management approaches. The synthesis of major elements and concepts will be reinforced through case studies on the Manitoba landscape, with an emphasis on practical learning by students through field seminars and group discussions. Not to be held with ENVR 4050. Prerequisite: Permission of department head.

GEOG 4060 Biogeography Cr. Hrs. 3

This course will provide students with a general understanding of the historical, ecological, analytical, and conservation aspects of biogeography. The course will also have a dual focus on the principles and concepts of reasons for the distribution of plants and animals worldwide, as well as incorporating discussion on as many local (Manitoba, Canada, North America) examples as possible. Not to be held with ENVR 4060. Prerequisite: Permission of department head.

GEOG 4200 Advanced Methods in Remote Sensing Cr. Hrs. 3

(Lab Required) Provides instruction in the current theory and application of remote sensing technology to Earth system Science. Emphasis will be placed on the processing and interpretation of remote sensing imagery and the integration of remote sensing data with other spatial data. Prerequisite: GEOG 3200 (C), or permission of department head.

GEOG 4260 Sacred Lands Cr. Hrs. 3

Students will increase their understanding of the importance and significance of Sacred Lands and Sacred Spaces to International Indigenous Peoples. Experiential learning, seminars, and a field component may be included. Not to be held with NATV 4260. Prerequisite: Permission of department head.

GEOG 4280 Gender and the Human Environment Cr. Hrs. 3

This upper-level seminar course will develop in students a depth and breadth of understanding appropriate to the honours undergraduate/graduate level in the area of gender geography scholarship. From critical social science theoretical positions, this course asks students to examine what we can learn about how humans live on the earth if we see them as gendered. Just as we may also understand humans and their interactions in and with spaces, places and environments through the lenses of race, ethnicity, class, age and/or combinations of these categories with gender. Prerequisite: a grade of C or better in a minimum of six credit hours in Geography, or permission of department head.

GEOG 4290 Geographies of Health and Health Care Cr. Hrs. 3

This course provides an introduction to and critical examination of the geographies of health and healthcare. Topics include perceptions and determinations of health and health care; health care delivery, focusing on spatial patterns and inequities; and the relationship between environment and health, particularly impacts of environmental contamination. Prerequisite: Permission of department head.

GEOG 4300 Synoptic Meteorology and Weather Analysis Cr. Hrs. 3

Applied aspects of meteorology are described in terms of weather analysis and forecasting techniques for synoptic-scales and meso-scales using various meteorological tools. An introduction to severe weather forecasting techniques will also be described. Prerequisite: GEOG 3310 (C), or permission of department head.

GEOG 4310 Boundary-Layer Climatology and Micrometeorology Cr. Hrs. 3

A seminar course on advanced topics in microclimatology and micrometeorology. Prerequisite: GEOG 3320 (C), or permission of department head.

GEOG 4330 Concepts in Atmospheric Modeling Cr. Hrs. 3

This course will primarily focus on numerical modeling applications and techniques of the Earth's atmosphere with an emphasis on weather prediction. This includes understanding basic modeling terminology, numerical schemes, structure of models, types of models, what is required to run a model, and an introduction to data assimilation and ensemble techniques to weather prediction. Not to be held with GEOG 4320. Prerequisite: GEOG 3310 (C) or GEOG 3320 (C), or permission of department head.

GEOG 4350 Parks and Protected Areas Planning and Management: Field Studies Cr. Hrs. 6

The course is taught in two segments, an on-campus component and field study component taking place in Banff National Park. The on-campus component examines the historical development of the concept of parks and protected areas, the role of interpretation, management and research in the parks and emerging issues in the management of parks and protected areas. In addition, during the on-campus component planning for the field will take place. The field segment will focus on a wide variety of management issues with particular attention to Banff National Park. Emerging issues and trends will be examined and past management responses evaluated. There will be opportunities for students to investigate specific management issues of interest to them and to participate in current research being conducted in the park. This course is also offered in the Faculty of Kinesiology and Recreation Management as REC 4350. Prerequisite: Permission of department head.

GEOG 4390 Global Climate Change Cr. Hrs. 3

Students will be introduced to the complexities of climate changes through a series of introductory lectures and reading assignments that focus on recent scientific publications and review articles (mathematical skills are not required). Both sides of the climate change debate will be addressed in weekly assignments, and students will defend their conclusions in classroom discussion. Each student will take on a project in some aspect of climate change -- glaciers, sea ice, temperature trends, precipitation, agriculture, animal migration, aerosols, or a regional impact. Prerequisite: a grade of C or better in GEOG 3390 (or GEOG 3610), or permission of department head.

GEOG 4560 Techniques in Climatology Cr. Hrs. 3

Instrumentation, the sources of climatic data, and the use of satellite photography, as well as methods of analysis and presentation are discussed. Prerequisite: GEOG 3320 (C), or permission of department head.

GEOG 4650 Models in Regional Analysis Cr. Hrs. 3

Emphasis is placed on the use of regression techniques in regional analysis including the classical ordinary least squares methods and two-stage least squares. Migration and industrial location models are developed and calibrated using these techniques. Prerequisite: Permission of department head.

GEOG 4660 Honours Thesis Cr. Hrs. 6

This course involves the production of a thesis under the supervision of a department faculty member. Prerequisite: Permission of department head.

GEOG 4670 Selected Issues Cr. Hrs. 3

Intensive study of selected geographic issues. Prerequisite: Prearranged written consent of an individual instructor and permission of department head.

GEOG 4780 Storms-Mesoscale Cr. Hrs. 3

This course focuses on a range of storms and mesoscale phenomena in the summer or winter. These include thunderstorms, tornadoes, squall lines, lightning, low level jets, gust fronts, blizzards, freezing rain, orographic

storm, and polar lows. The emphasis is on the physical mechanisms leading to these events and it also examines how they may change in our changing climate. Not to be held for credit with GEOG 7780. Prerequisite: A grade of "C" or better in GEOG 3310 or permission of department head.

GEOG 4872 Advanced Methods in Geomatics Cr. Hrs. 3

This course focuses on the theory and application of geomatics in spatial problem solving in geography and the environment. The use of geomatics' technologies including GIS, Earth observation and spatial numerical methods will be covered. Students will learn the theoretical underpinning of spatial statistical concepts and will experiment with data exploration, inference and hypothesis testing. Lab assignments will provide practical experience with GIS and other geomatics software as well as CRAN-R. Not to be held with ENVR 4872, GEOG 4590 or GEOG 4720. Prerequisite: GEOG 3730 or permission of Instructor.

GEOG 4930 Oceanography: Chemical Cr. Hrs. 3

This course deals with the sources, distribution, and transformation of chemical constituents of the oceans, and the processes that control them. The emphasis will be given to biologically or climatically significant elements such as carbon, nitrogen, phosphorus, iron and mercury in the Arctic Ocean. Prerequisite: ENVR 2550 and GEOG 2930 or permission by department head.

GEOG 4940 Artic Sea Ice Cr. Hrs. 3

This course aims to (i) provide students with a strong background on the importance and current knowledge of Arctic sea ice and (ii) train students on current field techniques used in research pertaining to sea ice-related investigations. To attain these goals, the course will combine field safety training, classroom lectures and assignments, and direct field experience through a field trip pertaining to physical and biogeochemical processes of the snow-covered sea-ice environment. Prerequisite: permission of the instructor.

GEOG 4960 Oceanography: Biological II Higher Trophic Levels Cr. Hrs. 3

This course will examine the oceanographic-biological coupling occurring in the Arctic region, focusing on environmental conditions related to higher trophic levels and impacts of climate change. This course will extend the learning of the 3000-level course that examines biological oceanography, which focuses on the environmental factors that control primary production and lower trophic levels in the world's oceans. Prerequisite: A minimum grade of "C" in both GEOG 3920 and a 2000-level BIOL course or permission of instructor.

SECTION 7: Bachelor of Environmental Science and Bachelor of Environmental Studies Degree Regulations, Program Descriptions and Courses Offered by

Head: Mark Hanson

Campus Address/General Office: 220 Sinnott Building

Email Address: environment_geography@umanitoba.ca

Telephone: (204) 474-9667

Fax: (204) 261-0038

Website: umanitoba.ca/environment/departments/geography

7.1 Program Information

The Clayton H. Riddell Faculty of Environment, Earth, and Resources offers General, Major, and Honours degree programs leading to a Bachelor of Environmental Science (B.Env.Sc.) and Bachelor of Environmental Studies

(B.Env.St.). Through an interdisciplinary approach, environmental issues relating to human populations, sustainable resource development, pollution and conservation, environmental health, and endangerment and preservation of species are explored in conjunction with alternative conditions that have the potential to reverse current trends and contribute to ecological sustainability. Students have access to undergraduate courses offered by the Clayton H. Riddell Faculty of Environment, Earth, and Resources as well as the Faculties of Agricultural and Food Sciences, Arts, Law, Engineering, Architecture, and Science in order to complete their education. They are expected to take many courses outside the Riddell Faculty enabling them to obtain a truly interdisciplinary education.

The Major and Honours degree programs serve students who desire advanced study in an environmental field. The programs are intended for students interested in professional training and the opportunity for advanced research. Honours degree programs demand higher academic performance and lead most directly to graduate studies. Students who are ineligible to enter the Honours degree program in their third year may establish this in the following year on the basis of their improved scholastic performance. See a Riddell Faculty student advisor in the Faculty general office for information. The degree programs may be pursued on a full- or part-time basis.

The B.Env.Sc. and B.Env.St. degree programs share a general structure that includes a foundation of either introductory Sciences or Social Sciences/ Humanities. Students complete an environmental core and a Focus Area that is defined through consultation with a Riddell Faculty student advisor in the Faculty general office. Students completing the General degree program are required to complete 9 credit hours in a Focus Area; Major, Major Coop, Honours and Honours Coop students complete 33 credit hours in a Focus Area. Other Focus Area requirements are defined in the graduation requirements in section 7.3.1 in this Chapter. You may also refer to the Focus Area Brochure for further information.

General

To qualify for the degree Bachelor of Environmental Science (General) or Bachelor of Environmental Studies (General), students must complete 90 credit hours including all faculty and degree requirements (including the foundation, environmental core and 9 credit hours of minimum 2000-level courses in a Focus Area). Minimum performance requirements include passing grades ('D' or better) in each course and a minimum degree Grade Point Average of 2.00. There is no limit to the number of credit hours a student completes provided he/she does not exceed 48 credit hours of failed courses.

Major

To qualify for the degree Bachelor of Environmental Science (Major) or Bachelor of Environmental Studies (Major), a student must complete 120 credit hours with a minimum degree grade point average of 2.00. Focus Area requirements are as follows: 33 credit hours of which 21 credit hours must be completed at the 3000- or 4000-level; 2.00 Grade Point Average. Major (Coop) students must attain a minimum degree Grade Point Average of 2.50. There is no limit to the number of credit hours a student completes provided he/she does not exceed 18 credit hours of failed courses.

Honours

To qualify for the degree Bachelor of Environmental Science (Honours) or Bachelor of Environmental Studies (Honours), a student must complete 120 credit hours with a minimum degree grade point average of 3.25. Focus Area requirements are as follows: 33 credit hours of which 21 credit hours must be completed at the 3000- or 4000-level; 3.00 Grade Point Average and minimum 'C+' grades. There is no limit to the number of credit hours a student completes provided he/she does not exceed 18 credit hours of failed courses.

Minor in Another Department

Students in the B.Env.Sc. and B.Env.St. have the opportunity to complete a Minor in a subject field that is different than that of the declared major, and which normally consist of 18 credit hours from a department offering this option at the University of Manitoba. Students are not permitted to complete a Minor in Environmental Science or Environmental Studies. Contact a [Riddell Faculty student advisor](#) in the Faculty general office for further information about eligible Minors.

Eco-Canada Accreditation

The Environmental Science program is accredited to the [National Standard of Environmental Programs](#) in Canada by ECO Canada.

7.2 Advanced Entry Requirements

Advanced Entry students are placed in the Major degree program in either the Bachelor of Environmental Science or Bachelor of Environmental Studies until they have completed a minimum of 48 credit hours after which they can transfer to the General or Honours program or remain in the Major. To make a program transfer, students must consult with a [Riddell Faculty student advisor](#).

Transfer students, and Second Degree students may be eligible for direct entry into the General or Honours programs. These students should consult with a [Riddell Faculty student advisor](#) in the Faculty Dean's Office.

7.2.1 and 7.2.2 define the Advanced Entry Entrance requirements for the degree programs in the Bachelor of Environmental Science and Bachelor of Environmental Studies, respectively.

7.2.1 Bachelor of Environmental Science Advanced Entry Entrance Requirements

| Degree Program in B.Env.Sc. | Minimum Number of Credit Hours | Minimum Degree Grade Point Average | Additional Advanced Entry Entrance Requirements |
|-----------------------------|--------------------------------|------------------------------------|--|
| Honours | 48 | 3.25 | No failures on entry ¹ ; a grade of 'B' or better in ENVR 1000 and ENVR 2000 as well as a minimum 'C+' in 6 hours of BIOL 1020 ³ , BIOL 1030 ³ or CHEM 1310 ³ and 'C' in the other course. |
| Honours (Coop) ² | 60 | 3.25 | No failures on entry ¹ ; ENVR 2900; students must satisfy the requirements for entrance/continuation in the regular program and (normally) have completed ENVR 1000, ENVR 2000, ENVR 2810, ENVR 3160, STAT 1000 ³ , STAT 2000 ³ , BIOL 2300 ³ (AGEC 2370), ECON 2390 (ABIZ 2390), BIOL 1020 ³ , BIOL 1030 ³ and one of GEOG 1290 ³ or GEOL 1340. |
| Major | 24 | 2.00 | 12 credit hours in ENVR 1000, ENVR 2000, BIOL 1020 ³ , BIOL 1030 ³ , CHEM 1300 ³ , CHEM 1310 ³ , STAT 1000 ³ , STAT 2000 ³ , MATH 1500 ³ (or MATH 1200 ³ , MATH 1300 ³ , MATH 1310, MATH 1510, MATH 1520), one of GEOG 1290 ³ or GEOL 1340, PHYS 1020 ³ (or PHYS 1050 ³), PHYS 1030 ³ (or PHYS 1070 ³), with a grade of 'C+' or better in six of the 12 credit |

| | | | hours, and a grade of 'C' or better in the remaining six credit hours. |
|--|--------------------------------|-----------------------------|--|
| Major (Coop) ² | 60 | 2.50 | ENVR 2900; students must satisfy the requirements for continuation in the regular program and (normally) have completed ENVR 1000, ENVR 2000, ENVR 2810, ENVR 3160, STAT 1000 ³ , STAT 2000 ³ , BIOL 2300 ³ (AGEC 2370), ECON 2390 (ABIZ 2390), BIOL 1020 ³ , BIOL 1030 ³ , and one of GEOG 1290 ³ or GEOL 1340. |
| General | 48 | 2.00 | |
| ¹ Students may be permitted to enter the program without satisfying all requirements listed. Students should consult with a Student Advisor for further information. ² Students may be permitted to enter the program without satisfying all requirements listed. Students should consult with the Cooperative Education Coordinator for further information. ³ Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified course identified in the entrance requirements chart. Université de Saint-Boniface courses end in the number '1' (e.g. CHEM 1301). | | | |
| 7.2.2 Bachelor of Environmental Studies Advanced Entry Entrance Requirements | | | |
| Degree Program in B.Env.St. | Minimum Number of Credit Hours | Minimum Grade Point Average | Additional Advanced Entry Entrance Requirements |
| Honours | 48 | 3.25 | No failures on entry ¹ ; a grade of 'B' or better in ENVR 1000 and ENVR 2000; GEOG 1280 ³ and GEOG 1290 ³ , ENVR 3160, with a grade of 'C+' or better in six of the 15 credit hours, and a grade of 'C' or better in the remaining nine credit hours. |
| Honours (Coop) ² | 60 | 3.25 | No failures on entry ¹ ; ENVR 2900; students must satisfy the requirements for Entrance/continuation in the regular program and (normally) have completed ENVR 1000, ENVR 2000, ENVR 2350, ENVR 3160, GEOG 1280 ³ and GEOG 1290 ³ , ECON 2390 (ABIZ 2390), STAT 1000 ³ , one of BIOL 2390 ³ (or (AGEC 2370) (or BIOL 2300 ³), and one of BIOL 1010 ³ , (or BIOL 1030 ³). |
| Major | 24 | 2.00 | 12 credit hours taken from ENVR 1000, ENVR 2000, BIOL 1010 ² (or BIOL 1030 ²), STAT 1000 ² , NATV 1220, GEOG 1280 ³ or GEOG 1290 ³ ; with a grade of 'C+' or better in six of the 12 credit hours, and a grade of 'C' or better in the remaining six credit hours. |
| Major (Coop) ¹ | 60 | 2.50 | ENVR 2900; students must satisfy the requirements for continuation in the regular program and (normally) have completed ENVR |

| | | | |
|--|-----------|-------------|---|
| | | | 1000, ENVR 2000, ENVR 2350, ENVR 3160, GEOG 1280 ³ and GEOG 1290 ³ ; ECON 2390 (ABIZ 2390), STAT 1000 ³ , one of BIOL 2390 ³ (AGEC 2370) or BIOL 2300 ³), and one of BIOL 1010 ³ (or BIOL 1030 ³). |
| General | 48 | 2.00 | |
| ¹ Students may be permitted to enter the program without satisfying all requirements listed. Students should consult with a Student Advisor for further information. ² Students may be permitted to enter the program without satisfying all requirements listed. Students should consult with the Cooperative Education Coordinator for further information. ³ Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified course identified in the entrance requirements chart. Université de Saint-Boniface courses end in the number '1' (e.g. GEOG 1281). | | | |

7.3 Minimum Performance Requirements for Continuation and Graduation

A student's academic performance will be assessed with his/her application for admission to the Clayton H. Riddell Faculty of Environment, Earth, and Resources and following each *term* thereafter. A Riddell Faculty student advisor must approve a student's registration each Fall/Winter term. Any revisions to this schedule should also be approved prior to the end of the registration revision period.

To be in **good standing** and permitted to continue in a degree program, a student must achieve the minimum standards outlined in section 7.3.1 at each point of assessment. This assessment is based on the student's minimum degree Grade Point Average and the number of failed courses after admission to the Riddell Faculty.

To graduate from either a Bachelor of Environmental Science or the Bachelor of Environmental Studies with the intended degree designation, a student must achieve the minimum standards and graduation requirements outlined in section 7.3.1 following the final term of registration and satisfy all degree course requirements in the foundation, environment core and Focus Area as defined in section 7.1 of this *Chapter*. In addition, students must satisfy the residence requirement by completing either a total of 48 credit hours or their last 24 credit hours at the University of Manitoba. These courses must be acceptable for credit in either the Bachelor of Environmental Science or the Bachelor of Environmental Studies.

Students who do not meet these minimum performance requirements for continuation or graduation will be required to transfer to the appropriate program based on their performance and eligibility as defined in 7.3.1. Students who do not meet the minimum performance requirements for the General degree program will be placed on probation or academic suspension as defined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this *Chapter*.

Students required to withdraw from the Honours degree program will have the statement 'Required to Withdraw from the Honours Program' recorded on their transcript. Similarly, students required to withdraw out of the Major degree program will have the statement 'Required to Withdraw from the Major Program' recorded on their transcript.

7.3.1 Minimum Performance Requirements

| Degree Program (Credit Hours) | Minimum Performance Requirements | | | Additional Graduation Requirements ¹ | |
|-------------------------------|---|----------------------------------|--|--|--|
| | Minimum Degree Grade Point Average (DGPA) | Maximum Credit Hours of Failures | Focus Area | Minimum credit hours of course work completed at the 3000- and 4000-levels | Coop Option Courses |
| Honours (120) | 3.25 | 18 | 33 credit hours of which 21 must be at the 3000- or 4000-level; minimum cumulative GPA of 3.00; minimum 'C+' grade in each course. | 39 credit hours | |
| Honours Coop (120) | 3.25 | 18 | 33 credit hours of which 21 must be at the 3000- or 4000-level; minimum cumulative GPA of 3.00. minimum 'C+' grade in each course. | 39 credit hours | ENVR 2900, ENVR 3900, ENVR 3910, ENVR 3980, ENVR 3920, ENVR 3990; (ENVR 4910 and ENVR 4980 are optional) |
| Major (120) | 2.00 | 18 | 33 credit hours of which 21 must be at the 3000- or 4000-level; minimum cumulative GPA of 2.00. | 33 credit hours | |
| Major (Coop) (120) | 2.50 | 18 | 33 credit hours of which 21 must be at the 3000- or 4000-level; minimum cumulative GPA of 2.00. | 33 credit hours | ENVR 2900, ENVR 3900, ENVR 3910, ENVR 3980, ENVR 3920, ENVR 3990; (ENVR 4910 and ENVR 4980 are optional) |
| General (90) | 2.00 | 48 | 9 credit hours | | |

7.4 Graduating with Distinction or First Class Honours

With Distinction

Students graduating with a Bachelor of Environmental Science (General) or Bachelor of Environmental Studies (General) degree will have their degree granted 'With Distinction' if they have a minimum Degree Grade Point Average of 3.50 on all course work.

Students graduating with a Bachelor of Environmental Science (Major) or Bachelor of Environmental Studies (Major) degree will have their degree granted 'With Distinction' if they have a minimum Degree Grade Point Average of 3.50 on all course work.

The term Degree with Distinction will appear both on the parchment and on the student's transcript.

First Class Honours

Students in the Honours program will have their degree granted with 'First Class Honours' if they have a minimum Degree Grade Point Average of 3.50 based on all acceptable course work. The term First Class Honours will appear both on the parchment and on the student's transcript.

7.5 Bachelor of Environmental Science Program Chart

| Bachelor of Environmental Science ^{1,2} | | | |
|---|---|--|---|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS 120 CREDIT HOURS | | | |
| ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 ³ , STAT 1000, ECON 1010 | ENVR 2810 ⁸ , ENVR 3160 ⁹ , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 ⁵ , STAT 2000 | ENVR 4110, ENVR 4500 | Plus 33 credit hours in an approved Focus Area ⁷ |
| Plus 3 credit hours from the Faculty of Arts ⁴ | One of PHYS 1030 ⁵ , MATH 1200, MATH 1300 ⁶ , MATH 1700 ⁶ | Enough elective credit to total 120 credit hours for the program. | |
| | One of GEOG 1290 or GEOL 1340 (or GEOL 1440) | | |
| The W course must be completed within the first 60 credit hours of coursework. | | | |
| HONOURS COOPERATIVE OPTION 120 CREDIT HOURS | | | |
| ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 ³ , STAT 1000, ECON 1010 | ENVR 2810 ⁸ , ENVR 3160 ⁹ , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 ⁵ , STAT 2000, ENVR 2900 | ENVR 4110, ENVR 4500 | Plus 33 credit hours in an approved Focus Area ⁷ |
| Plus 3 credit hours from the Faculty of Arts ⁴ | One of PHYS 1030 ⁵ , MATH 1200, MATH 1300 ⁶ , MATH 1700 ⁶ | ENVR 3900, ENVR 3980, ENVR 3990, ENVR 3910, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional) | Enough elective credit to total 120 credit hours for the program. |
| | One of GEOG 1290 or GEOL 1340 (or GEOL 1440) | | |
| The W course must be completed within the first 60 credit hours of coursework. | | | |
| MAJOR 120 CREDIT HOURS | | | |
| ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 ³ , STAT 1000, ECON 1010 | ENVR 2810 ⁸ , ENVR 3160 ⁹ , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 ⁵ , STAT 2000 | ENVR 4110 | Plus 33 credit hours in an approved Focus Area ⁷ |
| Plus 3 credit hours from the Faculty of Arts ⁴ | | Enough elective credit to total 120 credit hours for the program. | |

| | | |
|--|---|--|
| | One of PHYS 1030 ⁵ , MATH 1200, MATH 1300 ⁶ , MATH 1700 ⁶ | |
| | One of GEOG 1290 or GEOL 1340 (or GEOL 1440) | |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| MAJOR COOPERATIVE OPTION 120 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 ³ , STAT 1000, ECON 1010 | ENVR 2810 ⁸ , ENVR 3160 ⁹ , BIOL 2300 (or AGEC 2370), ECON 2390 (ABIZ 2390), PHYS 1020 ⁵ , STAT 2000, ENVR 2900 | ENVR 4110 Plus 33 credit hours in an approved Focus Area ⁷ ENVR 3900, ENVR 3980, ENVR 3990, ENVR 3910, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional) |
| Plus 3 credit hours from the Faculty of Arts ⁴ | One of PHYS 1030 ⁵ , MATH 1200, MATH 1300 ⁶ , MATH 1700 ⁶ | Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| GENERAL 90 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 ³ , STAT 1000, ECON 1010 | ENVR 2810 ⁸ , ENVR 3160 ⁹ , BIOL 2300 (or AGEC 2370), ECON 2390 (ABIZ 2390), PHYS 1020 ⁵ , STAT 2000 | ENVR 4110 Plus 9 credit hours in an approved Focus Area Enough elective credit to total 90 credit hours for the program. |
| Plus 3 credit hours from the Faculty of Arts ⁴ | One of PHYS 1030 ⁵ , MATH 1200, MATH 1300 ⁶ , MATH 1700 ⁶ | |
| | One of GEOG 1290 or GEOL 1340 (or GEOL 1440) | |
| MINOR 18 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000 | 12 credit hours of ENVR courses numbered at the 2000-level or above. | |
| NOTES: | | |
| ¹ Advanced Entry into the degree programs is summarized in section 7.2.1 of this Chapter. | | |
| ² The courses required in this program will satisfy the University Mathematics Requirements. | | |
| ³ MATH 1510 or MATH 1520 may be taken in place of MATH 1500 (or equivalent). | | |
| ⁴ It is recommended that students consider a selection from List A below when selecting courses from the Faculty of Arts. | | |
| ⁵ PHYS 1050 and PHYS 1070 may be used in lieu of PHYS 1020 and PHYS 1030. | | |
| ⁶ MATH 1310 and MATH 1710 may be taken in place of MATH 1300 and MATH 1700 (or equivalent). | | |

| |
|---|
| ⁷ Focus Area courses must include a minimum of 21 credit hours at the 3000- and/or 4000-level. Focus Area performance requirements are defined in section 7.3 of this Chapter. Information on Focus Areas is available in the Focus Area Brochure. |
| ⁸ The former ENVR 2170 or the former ENVR 2270 may be used in lieu of ENVR 2810. |
| ⁹ The former ENVR 2650 may be used in lieu of ENVR 3160. |
| IMPORTANT: The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. |
| NOTE: |
| <ul style="list-style-type: none"> To fulfil prerequisite requirements, a grade of 'C' must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course. Students should review the current course topics available through ENVR 2010 (1.5), ENVR 2020 (3), ENVR 3000 (3), ENVR 3010 (1.5), ENVR 3020 (3), ENVR 4000 (3), ENVR 4010 (1.5), and ENVR 4020 (3) as well as those offered through GEOG 3740 (6), GEOG 3750 (3), GEOG 3760 (6), GEOG 3770 (3) and GEOG 4670 (3). Also, all courses are not offered every year or every term. The course schedule for the current academic term is available from the Class Schedule . Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the Department of Environment and Geography general office. Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified course identified in the program requirements chart. Université de Saint-Boniface courses end in the number '1' (e.g. CHEM 1301). |

List A: Recommended List of Faculty of Arts Electives. Students may wish to consider courses from the following list when identifying appropriate selections from the Faculty of Arts.

*** In the list below indicates courses no longer offered.**

- ANTH 1210 Human Origins and Antiquity (3)
- ANTH 1220 Cultural Anthropology (3)
- ANTH 1520 Critical Cultural Anthropology (3)
- ECON 1020 Introduction to Macroeconomic Principles (3)
- NATV 1200 The Native Peoples of Canada (6)
- NATV 1240 The Native Peoples of Canada, Part 2 (3)
- PHIL 1200 Introduction to Philosophy (6)
- PHIL 1290 Critical Thinking (3)
- PHIL 1320 Introductory Logic (6)
- PHIL 1510* Historical Introduction to Philosophy (6)
- RLGN 1420 Ethics in World Religions (3)
- RLGN 2180 Theory of Nature (3)

7.6 Bachelor of Environmental Studies Program Chart

| Bachelor of Environmental Studies^{1,2} | | | |
|--|---------------|---------------|---------------|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |

| HONOURS 120 CREDIT HOURS | | |
|--|---|---|
| ENVR 1000, ENVR 2000, GEOG 1280, GEOG 1290, NATV 1220 ³ , BIOL 1010 ⁴ , STAT 1000, ECON 1010 | ENVR 2350, ENVR 3160 ⁷ , ECON 2390 (ABIZ 2390), BIOL 2390 ⁴ Plus 3 credit hours from List B ⁵ | GEOG 3810 ⁸ , ENVR 4110, ENVR 4500 Plus 33 credit hours in an approved Focus Area ⁶ Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| HONOURS COOPERATIVE OPTION 120 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, GEOG 1280, GEOG 1290, NATV 1220 ³ , BIOL 1010 ⁴ , STAT 1000, ECON 1010 | ENVR 2350, ENVR 3160 ⁷ , ECON 2390 (ABIZ 2390), BIOL 2390 ⁴ , ENVR 2900 Plus 3 credit hours from List B ⁵ | GEOG 3810 ⁸ , ENVR 4110, ENVR 4500 Plus 33 credit hours in an approved Focus Area ⁶ ENVR 3900, ENVR 3910, ENVR 3920, ENVR 3980, ENVR 3990 (ENVR 4980 and ENVR 4910 are optional) Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| MAJOR 120 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, GEOG 1280, GEOG 1290, NATV 1220 ⁴ , BIOL 1010 ⁴ , STAT 1000, ECON 1010 | ENVR 2350, ENVR 3160 ⁷ , ECON 2390 (ABIZ 2390), BIOL 2390 ⁴ Plus 3 credit hours from List B ⁵ | GEOG 3810 ⁸ , ENVR 4110 Plus 33 credit hours in an approved Focus Area ⁶ Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| MAJOR COOPERATIVE OPTION 120 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, GEOG 1280, GEOG 1290, NATV 1220 ³ , BIOL 1010 ⁴ , STAT 1000, ECON 1010 | ENVR 2350, ENVR 3160 ⁷ , ECON 2390 (ABIZ 2390), BIOL 2390 ⁴ , ENVR 2900 Plus 3 credit hours from List B ⁵ | GEOG 3810 ⁸ , ENVR 4110 Plus 33 credit hours in an approved Focus Area ⁶ ENVR 3900, ENVR 3910, ENVR 3920, ENVR 3980, ENVR 3990 (ENVR 4980 and ENVR 4910 are optional) Enough elective credit to total 120 credit hours for the program. |
| The W course must be completed within the first 60 credit hours of coursework. | | |
| GENERAL 90 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000, GEOG 1280, GEOG 1290, | ENVR 2350, ENVR 3160 ⁷ , ECON 2390 | GEOG 3810 ⁸ , ENVR 4110 |

| NATV 1220 ³ , BIOL 1010 ⁴ , STAT 1000, ECON 1010 | (ABIZ 2390), BIOL 2390 ⁴ Plus 3 credit hours from List B ⁵ | Plus 9 credit hours in an approved Focus Area Enough elective credit to total 90 credit hours for the program. |
|--|---|---|
| MINOR 18 CREDIT HOURS | | |
| ENVR 1000, ENVR 2000 | 12 credit hours of ENVR courses numbered at the 2000-level or above. | |
| NOTES: | | |
| ¹ Advanced Entry into the degree programs is summarized in 7.2.2. | | |
| ² The courses required in this program will satisfy the university mathematics requirements. | | |
| ³ Students are permitted to substitute NATV 1220 with another 3 credit hours from the department (not a language) or approved alternative course. See the Riddell Faculty student advisor for assistance. | | |
| ⁴ Students with an interest in the Conservation and Biodiversity Focus Area (or other Focus Areas including advanced Biology courses) are advised to complete the combination of BIOL 1020 and BIOL 1030 as well as BIOL 2300 (or AGEC 2370) instead of BIOL 1010 and BIOL 2390. | | |
| ⁵ Students must complete 3 credit hours of course work containing significant international content. Students are referred to List B for a list of available courses. Students may substitute with another course as approved by the student advisor. | | |
| ⁶ Focus Area courses must include a minimum of 21 credit hours at the 3000- and/or 4000-level. Focus Area performance requirements are defined in section 7.3 of this Chapter. Information on Focus Areas is available in the Focus Area Brochure . | | |
| ⁷ ENVR 2650 may be used in lieu of ENVR 3160. | | |
| ⁸ GEOG 3680 may be used in lieu of GEOG 3810. | | |
| IMPORTANT: The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. | | |
| NOTE: To fulfil prerequisite requirements, a grade of 'C' must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course. | | |
| Students should review the current course topics available through ENVR 2010 (1.5), ENVR 2020 (3), ENVR 3010 (1.5), ENVR 3020 (3), ENVR 4000 (3), ENVR 4010 (1.5), and ENVR 4020 (3) as well as those offered through GEOG 3740 (6), GEOG 3750 (3), GEOG 3760 (6), GEOG 3770 (3) and GEOG 4670 (3). Also, all courses are not offered every year or every term. The course schedule for the current academic term is available from the Class Schedule . | | |
| Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the Department of Environment and Geography general office . | | |
| Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified course identified in the entrance requirements chart. Université de Saint-Boniface courses end in the number '1' (e.g. GEOG 1281). | | |

List B: Courses containing significant international content:

ABIZ 1010 Economics of World Issues and Policies (3)

ECON 2550 Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment (3)

ECON 3670 International Trade (3)

POLS 2040 Introduction to International Relations (6)

POLS 3220 Globalization and the World Economy (3)

POLS 3250 International Political Economy (3)

GEOG 4260 Sacred Lands (3)

or as approved by a [Riddell Faculty student advisor](#)

7.7 Environment, Earth, and Resources Course Description

EER 1000 Earth: A User's Guide Cr. Hrs. 3

This course will present a multi-disciplinary introduction to the Planet Earth as both the source of essential resources and as the site of resulting negative impacts. Focus in the course will be provided by addressing important and current topics, case studies, and concepts that the well-educated citizen of the Earth should understand and will include natural and human-induced processes within a broad range of spatial and temporal scales.

7.8 Environmental Science and Environmental Studies Course Descriptions-1000 Level

ENVR 1000 Environmental Science 1 - Concepts Cr. Hrs. 3

This course will introduce students to the conceptual framework of the environment by examining its physical, biological, and social components. General topics to be considered will include ecological principles and the responses of natural and managed systems to disturbance; population growth; biodiversity and conservation; and environmental sustainability. Not to be held with BIOL 1340.

7.8 Environmental Science and Environmental Studies Course Descriptions-2000 Level

ENVR 2000 Environmental Science 2 - Issues Cr. Hrs. 3

This course will briefly review the major features of the structure and function of natural systems along with the degree to which these have been compromised. The main component of the course, however, will concentrate on the identification of the issues that underlie environmental degradation, while exploring alternative conditions that have the potential to reverse current trends and ultimately contribute to ecological sustainability. Prerequisite: ENVR 1000 (C) or BIOL 1340 (C).

ENVR 2010 Field Topics in Environment Cr. Hrs. 1.5

Field and practical experience in selected topics of current interest in the Environmental Science and Studies, with the content to vary depending on the needs of students and faculty. Prerequisite: Permission of department head.

ENVR 2020 Extended Field Topics in Environment Cr. Hrs. 3

Field and practical experience in selected topics of current interest in the Environmental Science and Studies, with the content to vary depending on the needs of students and faculty. Prerequisite: Permission of department head.

ENVR 2180 Introductory Toxicology Cr. Hrs. 3

A survey of general principles underlying the effects of toxic substances on biological systems, including consideration of the history, scope and

applications of toxicology, the mechanisms of toxic action, and some major types of toxicants. Not to be held with ENVR 2190 or BIOL 2380 (BOTN 2180 or ZOOL 2180) or BIOL 2382 (BOTN 2190 or ZOOL 2190) or AGRI 2180 or AGRI 2190. Prerequisites: [BIOL 1030 or BIOL 1031 or (C)], and [(CHEM 1310 or CHEM 1311 (C), or CHEM 1320 (C)].

ENVR 2190 Toxicological Principles Cr. Hrs. 1.5

A survey of general principles underlying the effects of toxic substances on biological systems, including consideration of the history, scope and applications of toxicology, and the mechanisms of toxic action. Not to be held with ENVR 2180 or BIOL 2380 (BOTN 2180 or ZOOL 2180), or BIOL 2382 (BOTN 2190 or ZOOL 2190), or AGRI 2180, or AGRI 2190. Prerequisites: [BIOL 1030 or BIOL 1031 (C)], and [CHEM 1310 or CHEM 1311 (C), or CHEM 1320 (C)].

ENVR 2350 Technical Communication in the Environmental Sectors Cr. Hrs. 3

(Lab Required) An introduction to technical communication skills required for environmental practitioners in research, government, and industry. The course covers technical writing and literature search techniques, business writing including reports, memos and e-mails, professional presentation skills, and fundamental internet skills. Practical experience is gained through assignments and laboratory exercises. Prerequisite: ENVR 1000 or BIOL 1340 (C), or permission of department head.

ENVR 2550 Environmental Chemistry Cr. Hrs. 3

(Lab Required) An introduction to the chemistry of the environment. Emphasis will be on the composition of the natural environment and the processes of natural and human-introduced chemical species that take place within it. The course will provide students with the chemical basis for understanding the environment and environmental problems. Not to be held with CHEM 2550. Prerequisite: CHEM 1310 or CHEM 1311 (C).

ENVR 2810 Environmental Critical Thinking and Scientific Research Cr. Hrs. 3

Course is designed to aid students in the development of a skeptical, scientific approach to thinking about environmental and geographical problems and issues, as well as applying that skepticism and critical thinking to develop well balanced research hypotheses and data collection methods. May not be held with the former ENVR 2270 or the former GEOG 2530. Prerequisites: ENVR 1000 (C) or GEOG 1280 (C) or GEOG 1290 (C); GEOG 1700 (C) or GPE 1700 (C); or consent of department.

ENVR 2900 Professional Development in the Environmental Sectors 1 Cr. Hrs. 1.5

Through self directed learning students are introduced to the environmental sectors and issues including workplace health and safety, the respectful workplace, managing workloads and expectation, and professionalism. The course is a mandatory requirement to Cooperative Education Option admission. Prerequisite: 30 credit hours of university credit.

7.8 Environmental Science and Environmental Studies Course Descriptions-3000 Level

ENVR 3000 Multidisciplinary Topics in Environmental Science 1 Cr. Hrs. 3

Selected topics of current interest in the Environmental Sciences and Studies. Course content to vary with each offering depending on the needs and interests of students and faculty. Prerequisites: Permission of department head, and 60 credit hours of university credit.

ENVR 3010 Field Topics in Environmental Science 1 Cr. Hrs. 1.5

Field and practical experience in selected topics of current interest in the Environmental Sciences and Studies, with the content to vary depending on the needs and interests of students and faculty. Prerequisite: Permission of department head.

ENVR 3020 Extended Field Topics in Environmental Science 1 **Cr. Hrs. 3**

Field and practical experience in selected topics of current interest in the Environmental Sciences and Studies, with the content to vary depending on the needs and interests of students and faculty. Prerequisite: Permission of department head.

ENVR 3110 Environmental Conservation and Restoration **Cr. Hrs. 3**

(Lab Required) Environmental conservation and restoration are introduced and approaches based on science and traditional knowledge are contrasted. An emphasis is placed on systems thinking and both local and international case studies. Prerequisites: BIOL 2390 (BOTN 2280 or ZOOL 2290) (C), or BIOL 2300 (BOTN 2370 or BOTN 2371 or ZOOL 2370 or ZOOL 2371) (C), or AGECE 2370 (C), or permission of department head.

ENVR 3160 Environmental Responsibilities and the Law **Cr. Hrs. 3**

Environmental responsibilities and their legal framework in terms of policies, legislation, standards and guidelines and the tools to manage responsibility are examined through lectures, case study review and discussion. Environmental liability and due diligence are reviewed in relation to responsibilities of organizations and individuals. Strategies to manage environmental liabilities, including environmental and risk assessment, are also discussed. Not to be held with (ENVR 3150 or ENVR 2650). Prerequisite: ENVR 2000 (C) or permission of department head.

ENVR 3180 Methods in Ecotoxicology **Cr. Hrs. 3**

(Lab Required) This is a laboratory-based course exploring the development, conduction and application of bioassays, biomarkers, bioindicators and biomonitors in ecotoxicology. Through a laboratory setting, students learn how to perform standard bioassays for a variety of species (plants and invertebrates) as well as systems (aquatic and terrestrial) at different levels of biological organization, from the individual to the ecosystem. Not to be held with (ENVR 3300). Prerequisites: a minimum grade of C in each of ENVR 2180 or BIOL 2380 (BOTN 2180, ZOOL 2180) or AGRI 2180, and a second year course in the Faculty of Science or the Faculty of Agricultural and Food Sciences that has a laboratory component, or permission of department head.

ENVR 3250 Environmental Assessment **Cr. Hrs. 3**

(Lab Required) The theory, principles and practices of environmental assessment as a planning and decision-making process to identify and mitigate adverse effects of development projects. Environmental assessment is defined in the context of federal and provincial legislation, and applicable standards and guidelines. Laboratory assignments involve practical experiences, case study review and basic report preparation. Prerequisites: A grade of "C" or better in [ABIZ 3550 or ENVR 3160 or the former ENVR 3150] and [BIOL 2300 or BIOL 2301 or the former BOTN 2370 or the former BOTN 2371 or the former ZOOL 2370 or the former ZOOL 2371 or AGECE 2370] or [BIOL 2390 or the former BOTN 2280 or the former ZOOL 2290] or permission of department head.

ENVR 3340 Circumpolar Cultures and Lifestyles **Cr. Hrs. 3**

This course provides an introduction to the culture, lifestyles, belief systems, material culture, art, environmental issues, and politics of Aboriginal Peoples in northern Canada, Greenland, Alaska, Siberia and Scandinavia. Prerequisite: Permission of department head.

ENVR 3350 Environmental Management Systems **Cr. Hrs. 3**

This course provides an introduction to environmental management systems and specific material on the ISO 14001 international EMS standard. Auditing principles and techniques are described with specific guidance on auditing an ISO 14001 EMS. Prerequisite: Permission of department head.

ENVR 3400 Introduction to Environment and Health **Cr. Hrs. 3**

An overview of the linkages between human health and environmental issues. The course discusses the nature of environmental hazards, human exposure and health outcomes. Major environmental and human health issues such as air pollution, hazardous substances, endocrine disruptors and products in the home are covered. Prerequisite: 60 credit hours of university credit.

ENVR 3500 Project in Environmental Science **Cr. Hrs. 3**

A research project in any aspect of environmental science, chosen in consultation with the department head and an appropriate supervising faculty member. Written reports and oral presentation on the results of the project will be required. The course is normally available only to final year students in the Environmental Science or Studies Program. Prerequisite: Permission of department head.

ENVR 3550 Environmental Analysis **Cr. Hrs. 3**

(Lab Required) An introduction to classical and modern techniques for sampling, sample pre-treatment, and analysis of chemical substances in aquatic atmospheric and terrestrial environments and the interpretation of data obtained from such analyses. Not to be held with CHEM 3590. Prerequisite: ENVR 2550 (C), or CHEM 2550 (C), or CHEM 2470 (C), or permission of department head.

ENVR 3750 Green Building and Planning **Cr. Hrs. 3**

An overview of the concepts and tools of Green building design and Green Planning. The course covers the history and trends in Green Building and Planning, related policies, tools and techniques. There is a strong emphasis on learning from local case-studies through seminars and field trips. Prerequisite: ENVR 2000 and 57 credit hours, or permission of department head.

ENVR 3850 Sustainable Manitoba (A) **Cr. Hrs. 3**

This course approaches local sustainability issues from an interdisciplinary perspective. By looking at the ecological, social and economic aspects from a variety of discipline perspectives, a fuller understanding of sustainability is achieved. The broad range of perspectives is achieved through participation of guest speakers from other faculties and outside of the university as well as excursion outside the classroom. Not to be held with GEOG 3850. Prerequisite: 60 credit hours of course work, or permission of department head.

ENVR 3900 Professional Development in the Environmental Sectors 2 **Cr. Hrs. 1.5**

Attendance and participation in seminars, conferences and workshops to foster greater interaction between students and practitioners in the environmental sectors. Students improve professional skill sets through assignments and mock interviews. The normal sequence for participation is after completion of ENVR 3980. Prerequisites: ENVR 2900 (C), and 60 credit hours of university credit.

ENVR 3910 Coop Work Term Report 1 **Cr. Hrs. 1.5**

Work term report, completed in conjunction with the coop placement, designed to integrate professional experiences with the concepts and theories explored through academic study. Students must be admitted into the Coop program to be registered, and receive credit. Prerequisite: ENVR 2900 (C). Prerequisite or Concurrent Requirement: ENVR 3980.

ENVR 3920 Coop Work Term Report 2 **Cr. Hrs. 1.5**

Work term report, completed in conjunction with the coop placement, designed to integrate professional experiences with the concepts and theories explored through academic study. Students must be admitted into the Coop program to be registered, and receive credit. Prerequisite: ENVR 3980 (P). Prerequisites or Concurrent Requirements: ENVR 3900, and ENVR 3990.

ENVR 3980 Coop Work Term 1 Cr. Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours or Major Cooperative program. This course is graded pass/fail. Prerequisite: ENVR 2900 (C).

ENVR 3990 Coop Work Term 2 Cr. Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours or Major Cooperative program. This course is graded pass/fail. Prerequisite or Concurrent Requirement: ENVR 3900.

7.8 Environmental Science and Environmental Studies Course Descriptions-4000 Level

ENVR 4000 Multidisciplinary Topics in Environmental Science 2 Cr. Hrs. 3

Selected topics of current interest in the Environmental Sciences and Studies. Course content to vary with each offering depending on the needs and interests of students and faculty. Prerequisites: Permission of department head, and 60 credit hours of university credit.

ENVR 4010 Field Topics in Environmental Science 2 Cr. Hrs. 1.5

Field and practical experience in selected topics of current interest in the Environmental Sciences and Studies, with the content to vary depending on the needs and interests of students and faculty. Prerequisite: Permission of department head.

ENVR 4020 Extended Field Topics in Environmental Science 2 Cr. Hrs. 3

Field and practical experience in selected topics of current interest in the Environmental Sciences and Studies, with the content to vary depending on the needs and interests of students and faculty. Prerequisite: Permission of department head.

ENVR 4050 Ecosystem Management Cr. Hrs. 3

This course will provide students with an understanding of the practical applications of ecological science, environmental policy, and resource management approaches in the large-scale planning of landscapes. The course will review ecological principles and trace the historical development of the ecosystem concept. Comparisons are made to other possible environmental management approaches. The synthesis of major elements and concepts will be reinforced through case studies on the Manitoba landscape, with an emphasis on practical learning by students through field seminars and group discussions. Not to be held with GEOG 4050. Prerequisite: Permission of department head.

ENVR 4060 Biogeography Cr. Hrs. 3

This course will provide students with a general understanding of the historical, ecological, analytical, and conservation aspects of biogeography. The course will also have a dual focus on the principles and concepts of reasons for the distribution of plants and animals worldwide, as well as incorporating discussion on as many local (Manitoba, Canada, North America) examples as possible. Not to be held with GEOG 4060. Prerequisite: Permission of department head.

ENVR 4110 Critical Thinking and the Environment Cr. Hrs. 3

(Lab Required) Topical issues and responses regarding the environment including conservation, management, and policy making are critically evaluated at local, national, and global scales. Term projects emphasizing applied work with environmental organizations and researchers are presented. Prerequisites: ENVR 2000 (C), and 72 credit hours of course work, or permission of department head.

ENVR 4180 Ecotoxicological Risk Characterization Cr. Hrs. 3

A biologically based, advanced course that will give students working knowledge of current processes and techniques for ecotoxicological risk characterization. The course material will cover the topics of problem definition, dose response characterization, exposure characterization, risk assessment, and risk management decision making. Prerequisite: ENVR 2180 (C), or BIOL 2380 (BOTN 2180 or ZOO 2180) (C), or AGRI 2180 (C).

ENVR 4400 Advanced Issues in Environment and Health Cr. Hrs. 3

An evaluation of global and local environmental health issues and the assessment and management tools used to manage these risks. Case studies of environmental issues and their human health effects are covered. Students have the opportunity to work on a substantial interdisciplinary environmental health project. Prerequisite: ENVR 3400 (C).

ENVR 4500 Thesis Project in Environmental Science and Studies Cr. Hrs. 6

A research thesis project in any aspect of environmental science or environmental studies, chosen in consultation with the course coordinator and an appropriate supervisor, typically a faculty member. Written reports and oral presentation on the results of the thesis project will be required. The course is normally available only to final year students in the Environmental Science Honours or Environmental Studies Honours Program. Prerequisites: Permission of course coordinator, and a GPA of 3.00 in the last 30 credit hours.

ENVR 4550 Aquatic Chemistry Cr. Hrs. 3

An examination of biogeochemical processes affecting the distribution, speciation and bioavailability of chemical substances in the aquatic environment. The theoretical basis for the chemical behaviour of natural water systems is discussed, as well as the description of the processes involved in wastewater treatment. Not to be held with CHEM 4550. Prerequisite: ENVR 3550 (C), or CHEM 3590 (C), or permission of department head.

ENVR 4650 Advanced Issues in Environmental Law and Policy Cr. Hrs. 3

This course provides an in-depth review of Canadian law and policy relating to environmental protection and management. In particular, the course describes the laws governing a variety of topics related to the environment, including constitutional responsibilities, federal and provincial environmental legislation, water law, parks and protected areas, wildlife and fisheries management, species at risk, and international law including climate change. Prerequisite: a minimum grade of C in ENVR 3160 (or the former ENVR 2650), or permission of department head.

ENVR 4872 Advanced Methods in Geomatics Cr. Hrs. 3

(Lab required) This course focuses on the theory and application of geomatics in spatial problem solving in geography and the environment. The use of geomatics' technologies including GIS, Earth observation and spatial numerical methods will be covered. Students will learn the theoretical underpinning of spatial statistical concepts and will experiment with data exploration, inference and hypothesis testing. Lab assignments will provide practical experience with GIS and other geomatics software as well as CRAN-R. Not to be held with GEOG 4590 or GEOG 4720 or GEOG 4872. Prerequisite: GEOG 3730 or permission of instructor.

ENVR 4910 Coop Work Term Report 3 Cr. Hrs. 1.5

Work term report, completed in conjunction with the coop placement, which is designed to integrate professional experiences with the concepts and theories explored through academic study. Students must be admitted into the Coop program to be registered, and receive credit. Prerequisite: ENVR 3990 (P).

ENVR 4980 Work Term 3 Cr. Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours or Major Cooperative program. This course is graded pass/fail. Prerequisite: ENVR 3990 (P).

SECTION 8: Department of Geological Sciences

Head: TBA

Campus Address/General Office: 240 Wallace Building

Telephone: (204) 474-9371

Fax: (204) 474-7623

Website: umanitoba.ca/geoscience

8.1 Academic Staff

Please refer to the Clayton H. Riddell Faculty of Environment, Earth, and Resources website at:

umanitoba.ca/environment/about/academic_staff.html

8.2 Program Information

The Geological Sciences deal with the history of the Earth and its life, especially that which is recorded in rocks. Different component parts of the Earth system, the *lithosphere*, *biosphere*, *atmosphere* and *hydrosphere*, operate at different length and time scales. During interactions between the spheres there is feedback between the component parts as energy and mass are exchanged, transferred and redistributed. In a geological context, the feedback can occur on a global scale, or on very small scales such as that which we see in minerals. More recently humans have become a major force in this Earth system because we have intervened in many of these exchanges.

Considering the Earth's past, geoscientists typically work with long time scales (in the order of millions to billions of years). We also use Hutton's original philosophy of *uniformitarianism*, stated as *the present is the key to the past*, to solve geological problems. However, as we see changes at the Earth's surface (our environment) occurring on very short time scales we need to learn to extract the signal of human activity from the Earth's pre-human past. Once we understand and quantify the nature and extent of the Earth's natural evolution as well as our more recent environmental impact, geological sciences can help predict future changes to the Earth.

Geology and Geophysics are the sciences that provide the quantitative data on the physical and chemical behaviour and characteristics of Earth materials - rocks, minerals, fluids and gases. These data are needed to model the behaviour of minerals in natural as well as many industrial systems. The theoretical and instrumental expertise needed to tackle many resource extraction, mineral processing and environmental problems is resident in geological science departments. From a broad Earth, environmental and resource perspective our collective future will depend on sustainable use of our Earth's resources and care of the environment.

The three-year General program (comprising of 90 credit hours) in Geological Sciences is designed to give students a basic understanding of the discipline in combination with a concentration of courses in a second subject area. The General Program is not intended for those students who seek a career in the geosciences. Rather, it is a useful consideration for

students planning to enter the Bachelor of Education program (see the Faculty of Education in this calendar) or other programs that require an undergraduate degree for admission. Students intending to pursue a career in the geosciences or graduate study should hold an Honours or Major degree (comprising at least 120 credit hours) in Geology or Geophysics.

Professional Registration

The professional practice of geoscience in Canada is governed by provincial/territorial law and is regulated by professional geoscience associations. In Manitoba, Engineers Geoscientists Manitoba (EGM) regulates professional practice. The requirements for professional registration are acceptable academic preparation and a subsequent period of acceptable geoscience experience. Students considering professional registration should take the B.Sc. Geological Sciences Honours or Major degree and make appropriate course selections, particularly in the basic sciences. Graduates who do not meet the academic requirements may be required by the professional association to take additional courses or examinations. Current registration information for EGM is available in the department or from the association's web site: www.apegm.mb.ca

Geological Sciences Prerequisite Information

To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as a prerequisite to a further course in Geological Sciences unless otherwise stated. Please note that some GEOL courses require a minimum grade of 'C+' in the prerequisite course.

8.3 Degree Regulations

8.3.1 B.Sc. in Geological Sciences (Major) Geology or Geophysics

To qualify for the degree, a student must complete a minimum of 120 credit hours with passing grades ('D' or better) in each course and with a minimum degree grade point average of 2.50 as indicated in the Graduation Requirements Table (see section 8.3.5). Students must complete all Faculty requirements as well as the University Written English and Mathematics requirement as described in the Chapter, General Academic Regulations, in this Calendar.

Students admitted to the Major program will normally have completed six credit hours of courses from the Faculty of Arts. Students who do not meet this requirement within their first 30 credit hours must do so within the Major program.

Minor in Another Department

Students in the B.Sc. Geological Sciences have the opportunity to complete a Minor in a subject field that is different than that of the declared major, and which normally consists of 18 credit hours from a department offering this option at the University of Manitoba. Students in the B.Sc. Geological Sciences are not permitted to complete a Minor in Geological Sciences. The Minor requirements are described in section 3.2 of this Chapter. Contact the department and/or a [Riddell Faculty student advisor](#) in the Faculty Dean's Office for further information about eligible Minors.

Entrance to the Major

To enter a Major program in Geology or Geophysics, a student must have completed at least 24 credit hours with a minimum Degree Grade Point Average of 2.50 as stipulated in Entrance and Continuation Requirements Table (see section 8.3.4). In addition, the student must attain the minimum grade requirements specified for individual Year 1 courses according to the program tables for the Major in Geology (section 8.4) or the Major in Geophysics (see section 8.5).

Continuation in the Major

A student's academic performance is assessed first with his/her application for admission to the Riddell Faculty and then following each *term* in which the student is registered. To be in **good standing** and permitted to continue in the degree program, a student must maintain a minimum degree Grade Point Average of 2.50 as stipulated in the Entrance and Continuation Requirements Table (section 8.3.4). Students who do not meet the minimum performance requirement will be required to withdraw from the Major program and will be placed in the General program provided their Degree Grade Point Average is 2.00 or above. Students will have the notation 'Required to Withdraw from the Major Program', recorded on their transcript.

If below 2.00, students will be placed on academic warning, probation or academic suspension as outlined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this Chapter.

Failed courses: Students cannot exceed 18 credit hours of failed courses (F's) as calculated on courses applicable to the degree program (DGPA).

Repeating GEOL 4920 Technical Report: The course may be repeated only once after a grade of F.

Program approval

A [Riddell Faculty student advisor](#) in the Faculty Dean's Office must approve a student's Major program each term. Students must also obtain departmental approval for all revisions to their programs. The [Advanced/Major/Honours Program Approval](#) forms are available on the Riddell Faculty web page. (umanitoba.ca/environment/undergraduate/)

Graduation in the Major

In order to graduate from the Geology or Geophysics Major, students must complete all degree program and faculty requirements as stipulated in section 3 and section 8 of this Chapter. Students must also achieve the minimum performance requirements as outlined in the Graduation Requirements Table (see section 8.3.5). This is defined as a minimum Degree Grade Point Average of 2.50 on 120 credit hours which constitute the degree.

Residence Requirement for Major Students

A student must successfully complete a minimum of 60 credit hours at the University of Manitoba. The courses used to satisfy the requirement must be acceptable for credit in the Clayton H. Riddell Faculty of Environment, Earth, and Resources. Residence requirements apply both to first and second-degree students.

Recognition of Academic Merit Degree with Distinction

To obtain a degree with distinction a student must achieve a minimum 3.50 Degree Grade Point Average on all courses constituting the Major degree. The term 'Degree with Distinction' will appear both on the parchment and on the student's transcript.

8.3.2 B.Sc. in Geological Sciences (Honours) Geology or Geophysics

The Honours programs are the most heavily concentrated programs offered and lead most directly to graduate studies. A student is required to achieve higher grade standards than in the Major degree program. The Honours degree may be pursued on a part-time basis, although it must be recognized that students will require additional terms to complete degree requirements. Students must complete the degree program within 8 years of gaining initial admission to the Honours program. Failure to complete the Honours degree within the 8-year time limit may require a student to transfer into the Major program.

Students admitted to the Honours program will normally have completed six credit hours of courses from the Faculty of Arts. Students who do not meet this requirement within their first 30 credit hours must do so within the Honours program.

A student will normally begin the Honours program in second year and must meet the entrance requirements set out below. Students in full-time study can expect to complete the prescribed courses in four years. Honours programs lead to either the B.Sc. Geological Sciences (Hons.) (Geology) or the B.Sc. Geological Sciences (Hons.) (Geophysics).

To be eligible for any award granted exclusively on the basis of academic performance, a student must normally be enrolled in a full-time program as defined by the department.

Students must complete the University Written English and Mathematics requirement as described in the chapter, General Academic Regulations, of this Calendar.

Entrance to Honours

To enter the Honours program in Geology or Geophysics, a student must have completed at least 24 credit hours with the minimum Degree Grade Point Average as stipulated in the Entrance and Continuation Requirements Table (section 8.3.4). In addition, the student must attain the minimum grade requirements specified for individual Year 1 courses according to the program tables for Honours Geology (section 8.4) or Honours Geophysics (section 8.5). Students who are ineligible to enter Honours with their admission to the Riddell Faculty may establish eligibility the following year on the basis of their second year of academic performance.

Continuation in Honours

A student's academic performance is assessed first with his/her application for admission to the Riddell Faculty and then following each *term* in which the student is registered. To be in **good standing** and permitted to continue in the degree program, a student must maintain the performance requirement as stipulated in the Entrance and Continuation Requirements Table (section 8.3.4). Students who do not meet the minimum performance requirements will be placed on academic warning, probation or academic suspension as outlined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this *Chapter*. Students who do not maintain this minimum average to remain in the program will be required to withdraw from the Honours program and, if eligible, will be placed in the Major program. Students will have the notation 'Required to Withdraw from the Honours Program' recorded on their transcript.

Failed courses: Students cannot exceed 18 credit hours of failed courses (F's) as calculated on courses applicable to the degree program (DGPA).

Repeating GEOL 4870 Honours Thesis: The course may be repeated only once after a grade of F.

Program Approval

A [Riddell Faculty student advisor](#) in the Faculty Dean's Office must approve a student's Major program each term. Students must also obtain departmental approval for all revisions to their programs. The [Advanced/Major/Honours Program Approval](#) forms are available on the Riddell Faculty web page. (umanitoba.ca/environment/undergraduate/)

Residence Requirement for Honours Students

A student must successfully complete a minimum of 60 credit hours at the University of Manitoba. The courses used to satisfy the requirement must be acceptable for credit in the Clayton H. Riddell Faculty of Environment,

Earth, and Resources. Residence requirements apply both to first and second-degree students.

Graduation from Honours

In order to graduate from the Honours Geology and Geophysics programs, students must complete all degree program and faculty requirements as stipulated in section 3 and section 8 of this Chapter. Students must also achieve the minimum performance requirements as outlined in the Graduation Requirements Table (see section 8.3.5). This is defined for the Honours Geology program as a minimum Degree Grade Point Average of 3.00 on 120 credit hours which constitute the degree and for Honours Geophysics as a minimum Degree Grade Point Average of 2.80 on the 120 credit hours which constitute the degree.

Recognition of Academic Merit First Class Honours

To graduate with **First Class Honours**, a student must achieve a Degree Grade Point Average of 3.50. The term 'First Class Honours' will appear both on the parchment and on the student's transcript.

Honours Program Notes: Double Honours Programs

Double Honours programs may be available. The program must be arranged in consultation with the departments concerned.

Honours Requirements and Options

Students who do not obtain the entrance requirements for the Honours program in their first year but who are interested in obtaining an Honours degree should consult with the department before registering for their second year.

Honours Geology Options

For students who wish to increase the focus of their knowledge, recommended electives are listed below:

Environmental Geoscience: BIOL 2300 (or AGECE 2370), CIVL 4250, SOIL 4060, SOIL 4130, SOIL 4500, GEOL 4370, GEOG 3390, ENVR 2180 (BIOL 2380 or AGRI 2180), ENVR 3110, ENVR 3250, or others approved by the department. (Students are responsible for completion of prerequisites for these courses.)

Honours Geophysics Option

Students who wish to enter the Honours Geophysics Option and have not taken 6 credit hours of introductory Geological Sciences (eg., GEOL 1340 and one of GEOL 1400, GEOL 1410, or GEOL 1420) may arrange with the department to make up this credit. Students must contact the department during the spring preceding entrance to the Honours program. All course choices in the Honours program should be made after consultation with the coordinator of the Geophysics program.

8.3.3 B.Sc. in Geological Sciences (General) Degree Program Structure

- A Geological Sciences component consisting of a minimum of 30 credit hours.
- A Minor of 18 credit hours (minimum) in a different department or an interdisciplinary program. e.g. in the Clayton H. Riddell Faculty of Environment, Earth, and Resources, or the Faculty of Arts, or the Faculty of Science. The Minor requirements are described in section 3.2 of this Chapter. Contact the department and/or a Riddell Faculty student advisor in the Faculty Dean's Office for further information about eligible Minors.

- Students will normally complete the Faculty of Arts courses requirement which include 6 credit hours from the Faculty of Arts. Students who have not met this requirement in their first year must meet the requirement prior to graduation.

Entrance to the General

To be admitted to the General program, a student must have completed at least 24 credit hours with a minimum Degree Grade Point Average of 2.00. In addition, a student must have completed GEOL 1340 with the grade of 'C+'. Refer to Section 8.6 for further program requirements.

Continuation in the General

A student's academic performance is assessed first with his/her application for admission to the Riddell Faculty and then following each term in which the student is registered. To be in good standing and permitted to continue in the degree program, a student must maintain a minimum Degree Grade Point Average of 2.00 as stipulated in the Entrance and Continuation Requirements Table (section 8.3.4). Students who do not meet the minimum performance requirement will be placed on academic warning, probation or academic suspension as outlined in section 3.14 Academic Warning, Probation, Academic Suspension and Special Students (Academic Standing) in this Chapter.

Failed courses: A student is required to repeat those failed courses that are specified as required courses for the program. Students are subject to the University of Manitoba regulations (see General Academic Regulations, Academic Evaluations, 1.2 Repeating a Course as described in this Calendar) and the Riddell Faculty degree regulations regarding eligibility to repeat a course. Students who need to repeat a course more than once to fulfil degree requirements must contact a [Riddell Faculty student advisor](#) for approval prior to registration. Students cannot exceed 30 credit hours of failed courses (F's) as calculated on courses applicable to the degree program (DGPA).

Graduation in the General

To qualify for the degree, students must complete 90 credit hours, inclusive of Geological Sciences courses, a minor in a second department or program, and any University 1 requirements. Minimum performance requirements include passing grades ("D" or better) in each course, a minimum degree grade point average of 2.00 in Geological Sciences courses, and an overall degree grade point average of 2.00 on the 90 credit hours which constitute the degree. Note: Where a Geological Sciences course listed in the calendar has required prerequisites, a student must hold a minimum grade of "C+" or "C" in each prerequisite course as stipulated in the course description.

Residence Requirement for General Students

Students must complete a total of 48 credit hours at the University of Manitoba, or they must complete their final 30 credit hours at the University of Manitoba in order to satisfy the residency requirement. The courses used to satisfy the requirement must be acceptable for credit in the Clayton H. Riddell Faculty of Environment, Earth, and Resources.

Recognition of Academic Merit Degree with Distinction

To obtain a degree with distinction, a student must achieve a minimum 3.50 Degree Grade Point Average on all courses constituting the General degree. The term 'Degree with Distinction' will appear both on the parchment and on the student's transcript.

8.3.4 Geological Sciences Advanced Entry Entrance and Continuation Requirements

| Degree Program | Minimum Degree Grade Point Average | |
|-------------------------------|------------------------------------|-------------------|
| | Entrance | Continuation |
| Major (Geology) | 2.50 ¹ | 2.50 ¹ |
| Major (Geophysics) | 2.50 ¹ | 2.50 ¹ |
| Honours (Geology) | 3.00 ¹ | 3.00 ¹ |
| Honours (Geophysics) | 2.80 ¹ | 2.80 ¹ |
| General (Geological Sciences) | 2.00 ¹ | 2.00 ¹ |

Notes:

¹In addition to the minimum degree grade point average noted in this chart, specific courses (with minimum grades) are required for entry and these are noted in the program chart for each program.

8.3.5 Geological Sciences Graduation Requirements

| Degree Program | Minimum Degree Grade Point Average |
|------------------------------------|------------------------------------|
| Major (Geology) (120) | 2.50 |
| Major (Geophysics) (120) | 2.50 |
| Honours (Geology) (120) | 3.00 |
| Honours (Geophysics) (120) | 2.80 |
| General (Geological Sciences) (90) | 2.00 |

8.4 B.Sc. Geological Sciences (Geology) Program Chart

| 8.4 B.Sc. Geological Sciences (Geology) ¹ | | | |
|--|--|---|--|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS GEOLOGY 120 CREDIT HOURS | | | |
| GEOL 1340 (B) and GEOL 1400 MATH 1500 ³ (C) CHEM 1300 (C) PHYS 1020 ² 6 credit hours from the Faculty of Arts | GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800, GEOL 2770, GEOL 3910 ⁵ | GEOL 2060, GEOL 3110, GEOL 3130, GEOL 3310, GEOL 3440, GEOL 3450, GEOL 3490, GEOL 3900, GEOL 4910 ⁵ 3 credit hours of Geological Sciences Geology Electives – Group A | GEOL 4300, GEOL 4520, GEOL 4670, GEOL 4870 6 credit hours of Geological Sciences Geology Electives – Group A Enough elective credit to total 120 credit hours for the program. |
| MAJOR GEOLOGY 120 CREDIT HOURS | | | |
| GEOL 1340 (C+) and GEOL 1400 MATH 1500 ³ (C) CHEM 1300 (C) PHYS 1020 ² 6 credit hours from the Faculty of Arts | GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800, GEOL 2770, GEOL 3910 ⁵ | GEOL 2060, GEOL 3110, GEOL 3130, GEOL 3310, GEOL 3440, GEOL 3490, GEOL 3900, GEOL 4910 ⁵ 3 credit hours of Geological Sciences Geology Electives ⁴ | GEOL 4670, 15 credit hours of Geological Sciences Geology Electives ⁴ Enough elective credit to total 120 credit hours for the program. |

Notes:

¹The courses required in this program will satisfy the [University Mathematics requirement](#) and the University Written English requirement.

²PHYS 1050 may be used in lieu of PHYS 1020.

³MATH 1510 or MATH 1520 may be used in lieu of MATH 1500.

⁴Among the Geological Sciences Electives, Major students must complete 18 credit hours consisting of 3 credit hours from Group B with the remaining 15 credit hours from Group A or B.

⁵Students will register for GEOL 3910 and GEOL 4910 in Summer term.

NOTE:

Students should be aware that they are expected to contribute to transportation and accommodation costs. See the department office at the beginning of each year for information.

IMPORTANT:

The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. (Letters in brackets indicate the minimum prerequisite standing in a specific course required for entry to the program).

GEOL 1400 is highly recommended to be taken in Year 1, but will not be considered when assessing entrance requirements to the program. If this requirement is not fulfilled in Year 1, it must be completed by the end of Year 2.

NOTE:

To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences, unless a higher prerequisite is stipulated in a course description.

All courses are not offered every year. The course schedule for the current academic term is available from the Class Schedule.

Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the Department general office.

Equivalent courses offered through Université de Saint Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number '1' (e.g. CHEM 1301).

Geological Sciences Geology Electives

Other Note1: Geological Sciences – Geology Electives: Honours students are required to complete a minimum of 9 credit hours from Group A; Major students must complete 18 credit hours consisting of 3 credit hours from Group B with the remaining 15 credit hours from Group A or B.

Geological Sciences - Geology Electives - Group A

| | |
|-----------|--|
| GEOL 2390 | Environmental Geology (3) |
| GEOL 3140 | Gemology (3)L |
| GEOL 3420 | Engineering Geology (3) |
| GEOL 3740 | Exploration Seismology (3)L |
| GEOL 3750 | Geology and Geophysics of the Planets (3)L |
| GEOL 3810 | Applied Geophysics (3)L |
| GEOL 4260 | Applied Geophysics Field Course (3) |
| GEOL 4270 | Advanced Studies in Earth Sciences (3) |

| | |
|--|--|
| GEOL 4280 | Instrumental Techniques in Geology (3)L |
| GEOL 4310 | Paleontologic Principles (3)L |
| GEOL 4360 | Mineral Exploration Techniques (3) L |
| GEOL 4370 | Global Change (3) |
| GEOL 4380 | Mineral Resource Development (3) |
| GEOL 4740 | Geophysics Field School (6) |
| GEOL 4890 | Basin Analysis (3)L |
| GEOL 4920 | Technical Report (3) - For Major students only |
| ENVR 2180 | Introductory Toxicology (3) |
| ENVR 2550 | Environmental Chemistry (3)L |
| GEOG 2310 | Introduction to Process Hydrology (3) |
| GEOG 2930 | Introduction to Oceanography (3) |
| GEOG 3200 | Introduction to Remote Sensing (3)L |
| GEOG 3730 | Geographic Information Systems (3)L |
| Geological Sciences - Geology Electives - Group B | |
| GEOL 3450 | Hydrogeology (3)L |
| GEOL 4300 | Mineral Deposits (3)L |
| GEOL 4520 | Petroleum Geology (3)L |
| NOTE: With departmental approval, up to 6 credit hours of 2000-level or higher courses from Science departments may be substituted to satisfy professional registration (EGM) requirements. | |

8.5 B.Sc. Geological Sciences (Geophysics) Program Chart

| B.Sc. Geological Sciences (Geophysics)¹ | | | |
|--|--|---|---------------|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS GEOPHYSICS 120 CREDIT HOURS | | | |
| GEOL 1340 (B) and one of: GEOL 1400, GEOL 1410, or GEOL 1420 ² PHYS 1050(B) [or PHYS 1020(B+)], PHYS 1070(B) [or PHYS 1030 (B+)], MATH 1210 ³ , COMP 1012, CHEM 1300, MATH 1510 ³ (B), and MATH 1710 ³ (B) [or MATH 1500(B) and MATH 1700(B)1] Plus 3 credit hours from the Faculty of Arts. | GEOL 2060, GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800 MATH 2130 ⁴ , MATH 2132 ⁴ Plus 3 credit hours from the Faculty of Arts. | GEOL 3130, GEOL 3740, GEOL 3810, GEOL 4250, GEOL 4320, GEOL 4330, GEOL 4670, GEOL 4740 ⁵ , GEOL 4810, GEOL 4870, COMP 2190 ⁴ , PHYS 2600, MATH 3132 ⁴ , 6 credit hours of Geological Sciences Geophysics Electives from List P and 6 credit hours of Geological Sciences Geophysics Electives from List B. Enough elective credit to total 120 credit hours for the program. | |
| MAJOR GEOPHYSICS 120 CREDIT HOURS | | | |

| | | |
|--|---|---|
| GEOL 1340 (C+) and one of: GEOL 1400, GEOL 1410, or GEOL 1420 ² PHYS 1050(C) [or PHYS 1020(C+)], PHYS 1070(C) [or PHYS 1030 (C+)], MATH 1210 ³ , COMP 1012, CHEM 1300, MATH 1510 ³ (C+), and MATH 1710 ³ (C) [or MATH 1500(C+) and MATH 1700(C)1] 3 credit hours from the Faculty of Arts. | GEOL 2060, GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800 MATH 2130 ⁴ , MATH 2132 ⁴ 3 credit hours from the Faculty of Arts. | GEOL 3130, GEOL 3740, GEOL 3810, GEOL 4670, GEOL 4740 ⁵ , GEOL 4810, COMP 2190 ⁴ , PHYS 2600, MATH 3132 ⁴ 9 credit hours of Geological Sciences Geophysics Electives from List A, 3 credit hours of Geological Sciences Geophysics Electives from List P and 6 credit hours of Geological Sciences Geophysics Electives from List B. Enough elective credit to total 120 credit hours for the program. |
|--|---|---|

NOTES:
¹The courses required in this program satisfy the University Mathematics Requirement and the University Written English Requirement.
²GEOL 1400 is highly recommended to be taken in Year 1, but GEOL 1410 or GEOL 1420 may be substituted.
³MATH 1690 may be taken in place of MATH 1500 (or MATH 1510) and MATH 1700 (or MATH 1710); MATH 1300 may be taken in place of MATH 1210. Selection of MATH 1300 or MATH 1210 will determine the prerequisite background for Mathematics courses required in years 2, 3 and 4.
⁴MATH 2720 may be taken in place of MATH 2130. PHYS 2490 may be taken in place of MATH 2132. MATH 2160 may be taken in place of COMP 2190. PHYS 3490 may be taken in place of MATH 3132. Normally, students select (MATH 2130, MATH 2132, COMP 2190, and MATH 3132) or (MATH 2720, PHYS 2490, MATH 2160, and PHYS 3490).
⁵GEOL 4740 will normally be taken immediately following the Winter term examinations and will continue for approximately three weeks. Registration will show as Summer Term. NOTE: Students are expected to contribute to the costs of transportation, lodging, and food. Contact the Department for further information.

IMPORTANT: The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. (Letters in brackets indicate the minimum prerequisite standing required for further study)

- NOTE:**
- To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences, unless a higher prerequisite grade is stipulated in a course description.
 - All courses are not offered every year. The course schedule for the current academic term is available from the [Class Schedule](#)
 - Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the Department general office.
 - Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number '1' (e.g. PHYS 1051).

Other Note 1: Geological Sciences Geophysics Electives Lists A, B and P

List A Electives: Major students must complete a minimum of 9 credit hours from the following courses

| | |
|--|---|
| GEOL 4250 | Theory and Application of Geophysical Inversion Methods (3)L |
| GEOL 4320 | Physics of the Earth: Seismology and Heat Flow (3) |
| GEOL 4330 | Physics of the Earth: Geomagnetism and Gravity (3) |
| GEOL 4920 | Technical Report (3) |
| List B Electives: Honours students are required to complete a minimum of 6 credit hours; Major students must complete a minimum of 6 credit hours from the following courses: | |
| GEOL 2390 | Environmental Geology (3) |
| GEOL 2770 | Principles of Inorganic Geochemistry (3)L |
| GEOL 3110 | Petrogenesis of Igneous Rocks (3)L |
| GEOL 3420 | Engineering Geology (3) |
| GEOL 3440 | Structure and Metamorphism (3)L |
| GEOL 3450 | Hydrogeology (3)L |
| GEOL 3490 | Glacial Geology and Geomorphology (3)L |
| GEOL 3750 | Geology and Geophysics of the Planets (3)L |
| GEOL 3900 | Sedimentology (3)L |
| GEOL 3910 | Introduction to Field Mapping (3) |
| GEOL 4270 | Advanced Studies in Earth Sciences (3) |
| GEOL 4300 | Mineral Deposits (3)L |
| GEOL 4360 | Mineral Exploration Techniques (3)L |
| GEOL 4370 | Global Change (3) |
| GEOL 4380 | Mineral Resource Development (3) |
| GEOL 4520 | Petroleum Geology (3)L |
| GEOL 4890 | Basin Analysis (3)L |
| GEOL 4910 | Advanced Field Mapping (3) |
| ENVR 2550 | Environmental Chemistry (3)L |
| GEOG 2300 | Atmospheric Thermodynamics, Clouds and Precipitation (3) |
| GEOG 2310 | Introduction to Process Hydrology (3) |
| GEOG 2930 | Introduction to Oceanography (3) |
| GEOG 3200 | Introduction to Remote Sensing (3)L |
| GEOG 3310 | Atmospheric Dynamics, Storms and Radar (3) |
| GEOG 3320 | Introduction to Microclimates and Micrometeorology (3) |
| GEOG 3730 | Geographic Information Systems (3)L |
| Any List A or P not already taken, or any advanced level Geological Sciences, Physics or Mathematics course(s) approved by department. | |
| List P Electives: Honours students are required to complete a minimum of 6 credit hours; Major students must complete a minimum of 3 credit hours from the following courses: | |
| CHEM 2290 | Chemical Energetics and Dynamics: Macroscopic Descriptions (3)L |

| | |
|---|--|
| PHYS 2152 | Modern Physics for Engineers (3)L |
| PHYS 2260 | Optics (3)L |
| PHYS 2610 | Circuit Theory and Introductory Electronics (3)L |
| PHYS 2650 | Classical Mechanics 1 (3) |
| PHYS 3180 | Stars (3) |
| PHYS 3630 | Electro - and Magnetostatic Theory (3) |
| PHYS 3670 | Classical Thermodynamics (3) |
| MECH 2262 | Fundamentals of Fluid Mechanics (3)L |
| Or alternate physical science course(s) approved by department. | |

8.6 B.Sc. Geological Sciences (General) Program Chart

| B.Sc. Geological Sciences (General) | | |
|--|---|--------|
| YEAR 1 | YEAR 2 | YEAR 3 |
| GENERAL 90 CREDIT HOURS | | |
| GEOL 1340 (C+) plus one of GEOL 1400 ¹ , GEOL 1410, or GEOL 1420 | GEOL 2500 plus a further 21 credit hours in Geological Sciences courses numbered at the 2000-level or above | |
| Plus 6 credit hours from the Faculty of Arts | Enough elective credit to total 90 credit hours for the program. | |
| The M and W course requirements must be met within the first 60 credit hours of the program. | | |
| MINOR GEOLOGICAL SCIENCES 18 CREDIT HOURS | | |
| GEOL 1340 and one of GEOL 1400, GEOL 1410, or GEOL 1420 | Plus 12 credit hours chosen from 2000- and 3000-level courses | |
| Notes: ¹ GEOL 1400 is highly recommended to be taken in Year 1, but GEOL 1410 and GEOL 1420 may be substituted. If this requirement is not fulfilled in Year 1, it must be completed by the end of Year 2. | | |
| NOTE: To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences. | | |
| <ul style="list-style-type: none"> All courses are not offered every year. The course schedule for the current academic term is available from the Class Schedule Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the Department general office. | | |
| Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number '1' (e.g. GEOG 1281). | | |

8.7 Environment, Earth, and Resources Course Description

EER 1000 Earth: A User's Guide

Cr. Hrs. 3

This course will present a multi-disciplinary introduction to the Planet Earth as both the source of essential resources and as the site of resulting negative impacts. Focus in the course will be provided by addressing important and current topics, case studies, and concepts that the well-

educated citizen of the Earth should understand and will include natural and human-induced processes within a broad range of spatial and temporal scales.

8.8 Geological Sciences Course Descriptions-1000 Level

GEOL 1340 The Dynamic Earth **Cr. Hrs. 3**

(Lab required) An introduction to dynamics of the Earth's interior and surface that created the environment in which life evolved and that continue to change the world in which people now live. Not to be held with the former GEOL 1440 or the former GEOL 2250. Required for students intending to proceed in further courses in the Geological Sciences

GEOL 1400 Time-Trekker's Travelog: Our Evolving Earth **Cr. Hrs. 3**

Take a trip across billions of years, as we explore awesome times in the evolution of our planet and its life -- from dust to us! Not to be held with GEOL 1350.

GEOL 1410 Natural Disasters and Global Change **Cr. Hrs. 3**

Discover how and when natural disasters occur, and how to identify and recognize them. Explore the Earth processes that lead to natural disasters and global change. Not to be held with the former GEOL 1360.

GEOL 1420 Exploring the Planets **Cr. Hrs. 3**

Discover the Solar System as we explore ancient ideas and modern concepts. Emphasis will be on recent space exploration and a comparison of the Earth and its neighbours. Not to be held with the former GEOL 1370.

8.8 Geological Sciences Course Descriptions-2000 Level

GEOL 2060 Introductory Geophysics **Cr. Hrs. 3**

(Lab Required) An introduction to geophysical exploration, Earth physics, satellite geophysics and remote sensing. Emphasis will be on quantitative modeling and will include geophysical measurements and handling of data. Prerequisites: [GEOL 1340, or (GEOL 1440) (C)], and [MATH 1300, or MATH 1310, or MATH 1500, or MATH 1510, or MATH 1520, or MATH 1530 (C)], and [PHYS 1020, or PHYS 1050 (C)], or permission of department head.

GEOL 2350 Canada Rocks: The Geology of Canada **Cr.Hrs. 3**

This is a general interest course. Journey through the spectacular story of Canada's geology - its rocks and how they were assembled over time into the amazing country that we live in today. Prerequisite: a grade of C or better in [a minimum of 3 credit hours of university-level geology] or [GEOG 1290 or GEOG 1291] or [the former GEOG 1200 or the former GEOG 1201] or EER 1000.

GEOL 2390 Environmental Geology **Cr. Hrs. 3**

Examination of geological processes and material as they interact with human activities, environmental planning, and management. Also available by correspondence. Prerequisite: [Minimum 3 credit hours of university-level geology] or [GEOG 1290 or GEOG 1291], or [the former GEOG 1200 or GEOG 1201].

GEOL 2440 Structural Geology 1 **Cr. Hrs. 3**

(Lab Required) Elementary mechanical principles of rock deformation, brittle and continuous deformation, geometry of faults, folds, joints, cleavage, lineations. Descriptive geometric and stereonet solution to structural geology problems, cross sections, structural contour maps. Prerequisite: GEOL 1340 (C+), and [MATH 1300, or MATH 1210, or MATH 1500, or MATH 1510, or MATH 1520].

GEOL 2500 Introduction to Mineralogy **Cr. Hrs. 3**

(Lab Required) An introduction to the chemistry, physics and classification of minerals. Brief, systematic description of about 200 of the most important minerals. Laboratory: hand specimen identification. Not to be held with the former GEOL 2540. Prerequisites: GEOL 1340 (C+) and [40S Chemistry or CHEM 0900 (Pass)]. CHEM 1300 is highly recommended.

GEOL 2520 Igneous and Metamorphic Petrology **Cr. Hrs. 3**

(Lab Required) The classification, occurrence and origin of igneous and metamorphic rocks. The study and identification of rocks using hand specimens and thin sections. Prerequisites: [GEOL 2500 and GEOL 2800] or [the former GEOL 2540].

GEOL 2530 Introductory Sedimentary Petrology and Stratigraphy **Cr. Hrs. 3**

(Lab Required) An introduction to sedimentary deposits and principles of stratigraphic analysis. Occurrence, classification and origin of sedimentary deposits. Facies concept, stratigraphic classification and correlation. Prerequisites: [GEOL 2500 and GEOL 2800] or [the former GEOL 2540].

GEOL 2570 Energy and Mineral Resources **Cr. Hrs. 3**

An introduction to the geological factors and processes responsible for the origin, concentration and distribution of fuels, geothermal resources, metallic and nonmetallic minerals. Available by correspondence only. Not for credit in a Major or Honours program in Geological Sciences. Prerequisite: Any university-level Geology course.

GEOL 2770 Principles of Inorganic Geochemistry **Cr. Hrs. 3**

(Lab Required) The cosmic abundance of the elements, nucleosynthesis, geological differentiation of the elements; chemical petrology of igneous, metamorphic and sedimentary rocks. An introduction to aqueous and low-temperature geochemistry. Prerequisite: [GEOL 2500 or the former GEOL 2540] and [MATH 1300, or MATH 1210, or MATH 1500, or MATH 1510, or MATH 1520]. Pre or Corequisite: CHEM 1300.

GEOL 2800 Optics and Spectroscopy of Minerals **Cr. Hrs. 3**

(Lab Required) Use of the petrographic microscope; microscopic recognition of common rock-forming minerals; introduction to spectroscopic techniques in geosciences (including optical, vibrational and luminescence techniques). Pre- or Corequisite: GEOL 2500 or the former GEOL 2540.

8.8 Geological Sciences Course Descriptions-3000 Level

GEOL 3110 Petrogenesis of Igneous Rocks **Cr. Hrs. 3**

(Lab Required) Crystallization processes in magma and resultant textures; physical, chemical, and kinetic processes of magmatic systems. Prerequisites: GEOL 2520 and GEOL 2770.

GEOL 3130 Communication Methods in the Geological Sciences **Cr. Hrs. 3**

(Lab Required) Practice in oral and written description of geologic subjects; tools of library and database research; manuscript organization; abstract writing; computer-aided table, figure, and slide preparation. Prerequisites: GEOL 2440 and GEOL 2520 and GEOL 2530. This course is for students in the Honours and Major Geological Sciences programs only.

GEOL 3140 Gemology **Cr. Hrs. 3**

(Lab Required) An introduction to the scientific study of natural and synthetic gem materials, methods of their identification and principles of gemstone appraisals. Laboratory: identification of gemstones using optical

methods. Prerequisites: [GEOL 2500 and GEOL 2800] or [the former GEOL 2540].

GEOL 3310 Paleontology **Cr. Hrs. 3**

(Lab Required) The study of fossils: invertebrate paleontology, with an introduction to paleontologic principles, vertebrate paleontology, and paleobotany. Prerequisite: GEOL 1340 (C+) or the former GEOL 1440 (C+) or permission of department head.

GEOL 3420 Engineering Geology **Cr. Hrs. 3**

Engineering properties of rocks and soils, laboratory testing and site investigations in engineering geology. Engineering geology of tunnels, bridges, dams, reservoirs, shorelines, sanitary landfills, landslides, seismic risk areas, etc. Prerequisites: GEOL 2440 and GEOL 2520 and GEOL 2530.

GEOL 3440 Structure and Metamorphism **Cr. Hrs. 3**

(Lab required) Structural and metamorphic geology, links between deformation and metamorphism, and the application of pressure-temperature and time paths to study metamorphic equilibria. Not to be held with the former GEOL 3290. Prerequisites: GEOL 2440 and GEOL 2520 and GEOL 3910.

GEOL 3450 Hydrogeology **Cr. Hrs. 3**

(Lab required) The hydrologic cycle and basic hydrologic processes; properties of aquifers and principles of groundwater flow; well hydraulics and groundwater resource evaluation; regional groundwater flow and subsurface geology; and basic chemical hydrogeology. May not be held with CIVL 4250. Prerequisites: [MATH 1500 or MATH 1501 or MATH 1510 or MATH 1520 (C)] and [PHYS 1020 or PHYS 1021 or PHYS 1050 or PHYS 1051 (C)] and [CHEM 1300 or CHEM 1301 (C)] and [GEOL 2060 or GEOG 2310 (C)] and [GEOL 2530 (C)].

GEOL 3490 Glacial Geology and Geomorphology **Cr. Hrs. 3**

(Lab required) Principles of landform development with emphasis on glacial deposition. Aerial photo and map interpretation in lab. Not to be held with the former GEOG 3580. Prerequisite: GEOL 2530.

GEOL 3740 Exploration Seismology **Cr. Hrs. 3**

(Lab required) Collection of seismic data (land and sea); simple elastic wave theory; geometry of refraction and reflection seismology; rock velocity determination; seismic noise and signal; data corrections; data enhancement techniques; representation of data; survey procedures. Prerequisites: [GEOL 2060 (C)] and [MATH 1500 or MATH 1501 (C) or MATH 1510 (C) or MATH 1520 (C) or the former MATH 1530 (C) or MATH 1690 (C)].

GEOL 3750 Geology and Geophysics of the Planets **Cr. Hrs. 3**

(Lab required) Physical and chemical nature of the inner and outer planets and their satellites, asteroids and meteorites. The application of geophysical, geochemical and petrological techniques to planetology; remote sensing study of geological features of planetary surfaces and atmospheres. Prerequisites: GEOL 2060, GEOL 2520, and GEOL 2530, or permission of department.

GEOL 3810 Applied Geophysics **Cr. Hrs. 3**

(Lab required) The application of geophysical methods in exploration and in environmental and engineering projects. Prerequisite: [GEOL 2060] and [GEOL 2500 or the former GEOL 2540].

GEOL 3900 Sedimentology **Cr. Hrs. 3**

(Lab Required) The study of depositional environments of sedimentary rocks. Facies analysis and modeling of sedimentary deposits. Prerequisite: GEOL 2530.

GEOL 3910 Introduction to Field Mapping **Cr. Hrs. 3**

Course introducing field mapping techniques including field navigation and basic geologic interpretations. Students are responsible for costs of room and board during the field course. Offered in the Summer Term. Prerequisites: GEOL 2440 and GEOL 2520 and GEOL 2530 and permission of department.

8.8 Geological Sciences Course Descriptions-4000 Level

GEOL 4250 Theory and Application of Geophysical Inversion Methods **Cr. Hrs. 3**

(Lab required) Introduction to linear and non-linear geophysical inversion theory. Prerequisites: [GEOL 2060 (C)] and [MATH 1210 (C) or MATH 1300 (C) or MATH 1301 (C) or MATH 1310 (C)].

GEOL 4260 Applied Geophysics Field Course **Cr. Hrs. 3**

Field instruction in the planning and execution of geophysical surveys and the use of geophysical equipment; analysis, interpretation and reporting of acquired geophysical data. Taught with the first half of GEOL 4740 in the summer term. Students are responsible for costs of room and board during the field course. Not to be held with GEOL 4740. Prerequisites: GEOL 3810, GEOL 2440, GEOL 2520, GEOL 2530, and permission of department.

GEOL 4270 Advanced Studies in Earth Sciences **Cr. Hrs. 3**

Advanced study in a selected subject in Earth sciences. Prerequisite: Permission of department head. As the course content will vary from year to year, students may take this course more than once for credit.

GEOL 4280 Instrumental Techniques in Geology **Cr. Hrs. 3**

(Lab required) Lecture and laboratory course introducing modern instrumental techniques for the characterization of materials. Includes coverage of diffraction, spectroscopy, mass spectrometry, electron and scanning probe techniques. Emphasis is placed on basic principles, instrument operation, data analysis and sample preparation. Prerequisites: GEOL 2520 and GEOL 2530 and GEOL 2770 and permission of department.

GEOL 4300 Mineral Deposits **Cr. Hrs. 3**

(Lab required) The tectonic setting and deformational and structural nature of ore deposits. The physics and chemistry of ore deposition and ore bearing fluids. The mineralogical, textural and environmental constraints on resource exploitation. Prerequisites: GEOL 3110 and GEOL 3900.

GEOL 4310 Paleontologic Principles **Cr. Hrs. 3**

(Lab required) Interpretation of Earth history using fossils: topics in taxonomy, functional morphology, paleoecology, evolution, biostratigraphy, and biogeography. Prerequisite: GEOL 3310 or permission of department.

GEOL 4320 Physics of the Earth: Seismology and Heat Flow **Cr. Hrs. 3**

Seismology and the structure, physical properties and equations of state of the Earth's interior; thermal constitution and the history of the Earth. Prerequisites: GEOL 2060 and [MATH 2130 or MATH 2720 or MATH 2721]. Pre- or corequisite: MATH 3132 or PHYS 2490.

GEOL 4330 Physics of the Earth: Geomagnetism and Gravity **Cr. Hrs. 3**

Potential field theory; magnetic properties of Earth materials; figure and rotation of the Earth; theory and application of Earth's gravity and magnetic fields. Prerequisites: [GEOL 2060 (C) and [MATH 2130 or MATH 2720 or MATH 2721]]. Corequisite: MATH 3132 or PHYS 2490.

GEOL 4360 Mineral Exploration Techniques **Cr. Hrs. 3**

(Lab required) Methodologies used in exploration and evaluation of Canadian mineral deposits and case studies illustrating the application of these methods. Prerequisite: GEOL 3910 and GEOL 2770. Recommended pre- or corequisite: GEOL 4300.

GEOL 4370 Global Change **Cr. Hrs. 3**

Examination of the major processes controlling global change through time. The causes, magnitude, and periodicity of changes in the geological record resulting from the variability and interaction of continents, oceans, atmospheres, climate, Earth-sun relationships, and ice sheets, with an emphasis on paleoclimate. Prerequisite: GEOL 3900. Pre- or corequisite: GEOL 3490.

GEOL 4380 Mineral Resource Development **Cr. Hrs. 3**

Examination of economic, political, social, and environmental considerations that affect exploration and mining activity. Prerequisite: GEOL 3130 (C+). Pre- or corequisite: GEOL 4300 or GEOL 3810.

GEOL 4520 Petroleum Geology **Cr. Hrs. 3**

(Lab required) A study of the physical properties, origins and maturation, migration, and accumulation of petroleum products. Prerequisites: [GEOL 2060 and GEOL 3900] or [GEOL 2530 and either (GEOL 3810 or GEOL 3740)].

GEOL 4670 Global Tectonics **Cr. Hrs. 3**

(Lab required) The structure and properties of, and physical processes taking place within, the Earth's interior. Continental cratons and their margins, orogenic belts, structural and petrologic features of the ocean basins, modern diastrophism, global tectonic theories. Prerequisites: [GEOL 3110, GEOL 3440 (or the former GEOL 3290), GEOL 3900] or [GEOL 2440, GEOL 2520, GEOL 2530 and two of the following courses: GEOL 4250, GEOL 4320, GEOL 4330, GEOL 4810].

GEOL 4740 Geophysics Field Course **Cr. Hrs. 6**

Field instruction in planning and execution of geophysical surveys and use of geophysical equipment; analysis, interpretation and reporting of acquired geophysical data. Students are responsible for costs of room and board during the field course. Taught in the summer term. Not to be held with GEOL 4260. Prerequisites: GEOL 2440, GEOL 2520, GEOL 2530, GEOL 3810, and permission of department.

GEOL 4810 Geophysical Data Analysis **Cr. Hrs. 3**

The theory and application of spectral methods in geophysics. The use of Fourier Transforms, convolution, power spectra, coherence, transfer functions, covariance, correlation and filtering. Prerequisite: PHYS 2490 or MATH 2132 or permission of department.

GEOL 4870 Honours Thesis **Cr. Hrs. 6**

A thesis based on a geoscience research project conducted by a fourth-year student in Geology or Geophysics. Selection of a project and supervisor to be arranged prior to registration, submitted in writing to and approved by the department head. This course is for Honours students only and is to be taken in the student's final year before graduation. Not to be held with GEOL 4920. Prerequisite: GEOL 3130 and permission of department head.

GEOL 4890 Basin Analysis **Cr. Hrs. 3**

(Lab required) The study of major sedimentary basins. Qualitative and quantitative aspects of basin origin, classification, evolution, fluid content and diagenesis, and sedimentary facies architecture. Prerequisites: [GEOL 3900 and GEOL 2060] or [GEOL 2530 and (GEOL 3740 or GEOL 3810)].

GEOL 4910 Advanced Field Mapping **Cr. Hrs. 3**

Course developing field mapping techniques including independent mapping and interpretation and synthesis in complex geological terrains. Students are responsible for costs of room and board during the field

course. Offered in the summer term. Prerequisites: GEOL 3440 or (the former GEOL 3290), GEOL 3110, GEOL 3900, GEOL 3910, and permission of department.

GEOL 4920 Technical Report **Cr. Hrs. 3**

A technical report based on a geoscience research project conducted by a fourth year Major student in Geology or Geophysics. Selection of a project and supervisor to be arranged prior to registration, submitted in writing to and approved by the department head. This course is for students in the Major program only and is available during the student's final year of study before graduation. Not to be held with GEOL 4870. Technical reports written for this course are not considered compliant with National Instrument 43-101. Prerequisite: GEOL 3130 and permission of department head.

Extended Education

Dean: Dr. David Mandzuk (Acting)
 Associate Dean (s): Rod Lastra
 185 Extended Education Complex
 (204) 474 8800; Toll Free: 1 888 216 7011
 (204) 474 7661
umanitoba.ca/umextended

SECTION 1: Extended Education

SECTION 2: Program Areas

2.1 Access and Aboriginal Focus Programs

2.2 Continuing and Professional Studies

2.3 Extended Degree Studies

2.4 Inter-Universities North Program

SECTION 1: Extended Education

Extended Education is an academic unit of the University that offers continuing and professional programming to adult learners. Our programs often take the form of short credentials such as Certificates and Letters of Accomplishment. We also offer programming that provides support for Indigenous and newcomer University students as well as for students admitted to the University in *General Studies*. Working in partnership with other faculties and departments of the University and with community organizations, we develop high quality programming that is responsive, accessible, and socially progressive.

SECTION 2: Program Areas

2.1 Access/Aboriginal Focus Programs

Area Director: Dr. Diedre A. Desmarais
 General Office: 221 Migizii Agamik, 114 Sidney Smith St.
 Telephone: 204-474-8000
umextended.ca/access/

Established in 1975, Access' mandate is to support those students who have not had the opportunity to pursue post-secondary education due to social, economic and/or cultural barriers. The Aboriginal Focus Programs were established in 1998 with the mandate to create and provide community-based programs responding to the post-secondary and professional development needs of Aboriginal peoples. These two distinct areas were integrated on July 1, 2011 combining the unique program development skills of the Aboriginal Focus Programs with the expertise of delivering strong academic, personal and financial supports to students who have experienced barriers to post-secondary education. The amalgamation of these two areas strengthens our capacity to provide students with unique programs in tandem with the supports needed to enhance capacity for success. In 2014, in order to further enhance student success a new initiative was developed to provide academic supports and programming in math and science. This includes enhanced teaching capacity, supplemental academic supports for specific science courses and non-degree offers in math and science skills. In 2017, Access introduced a Common First Year (CFY) for new students. The CFY program will be taken by first year Access students utilizing a "cohort" type model. The components of the program including courses, learning labs, etc. are

mandatory. It is anticipated that students will progress through the first year together thereby fostering "community" and "family" environment which will facilitate transition to university and thereby enhance success. The CFY is designed to nurture the connection between students and staff as well as within the student body. Additionally we provide intensive supports related to academic reading and writing. In 2018, a full time "Unkan" (Grandfather in residence) joined the team, further enriching student and staff academic experience. We take pride in our holistic approach to program development and student support and have progressively sought gifted educators to help us carry forward continued excellence in all our educational endeavors.

Access Programs

Established in 1975, Access' mandate is to support those students who have not had the opportunity to pursue post-secondary education due to academic, social, economic and/or cultural barriers. The following are programs currently being offered:

University of Manitoba Access Program (UMAP)

In cooperation with the Province of Manitoba, the University of Manitoba Access Program (UMAP) facilitates university studies at the undergraduate degree level for persons who traditionally have not had the opportunity for such experience because of social, economic and cultural reasons, lack of formal education or residence in remote areas. Students in this program are provided with academic and personal supports. For information, call 474-8800 or, within Manitoba, 1-888-216-7011.

Health Careers Access Program (HCAP)

This program is designed to prepare Manitoban Indigenous persons (Status, Non-Status, Metis, Inuit) for entry to the health professional programs such as Medicine, Dentistry, Dental Hygiene, Pharmacy, Medical Rehabilitation (Occupational, Physical and Respiratory Therapy) and Nursing. Through the cooperation of the Province of Manitoba and the University of Manitoba, students in this program are provided with academic and personal supports. For information call 474-8800 or, within Manitoba, 1-888-216-7011.

Professional Health Program (PHP)

This program is designed to support Indigenous persons (Status, Non-Status, Metis, Inuit) in any of the professional health programs. This program provides academic, personal supports, and limited financial assistance may be available. For information call 474-8800 or, within Manitoba, 1-888-216-7011.

Aboriginal Focus Programs

AFP offers certificate and diploma programs as well as degree programs through cooperative arrangements with Aboriginal stakeholders and faculties of the University of Manitoba. Programs are offered in a central location, as in-house training to staff of an organization, or as community-based programs. Programs are offered as 'open enrolment' or as block-funded cohort programs through an arrangement with an employer or sponsor. Delivery methodology can be part-time or full-time study, and can incorporate technology-based delivery where technology access permits. Aboriginal organizations that identify a need for specific post-secondary or adult education not currently available may be interested in knowing that AFP has the capacity to develop new programs to meet their needs. The following are programs currently being offered:

Aboriginal Counseling Skills Certificate

(This program is not being offered in the 2019/2020 academic year).

The Aboriginal Counseling Skills program provides individuals who are employed by First Nation, Metis and Inuit social service agencies with the knowledge and skills required to provide culturally appropriate counseling services to individuals and families. An Aboriginal philosophy of recognizing the strengths and resilience of families within the counseling relationship is emphasized. The certificate is offered as a general intake program in Winnipeg or as a community-based program through agreements with Aboriginal agencies. The Faculty of Social work offers graduates 3 allocated and 6 unallocated hours of credit.

Aboriginal Environmental Stewardship Diploma

(This program is not being offered in the 2019/2020 academic year).

The Aboriginal Environmental Stewardship (AESD) Program is a partnership program between Aboriginal Focus Programs and the University of Manitoba's Clayton H. Riddell Faculty of Environment, Earth and Resources and the Faculty of Arts: Department of Native Studies. The 60-credit hour diploma offers a post-secondary education program that provides the core principles of environmental science, stewardship and indigenous environmental justice. The program is designed to offer students an Indigenous community-focused perspective of environmental issues within Manitoba. The objective will be to integrate global and regional environmental issues related to the ecological, and cultural impacts as well as legal implications of resource use and exploration in the 21st century. The curriculum will focus on the incorporation of Indigenous Knowledge within a scientific framework. The AESD program is offered on-campus or as a community-based program through collaboration with external stakeholders.

Program and Graduation Requirements:

- Students must pass 60 credit hours of the program (30 credit hours of required courses, 28.5 credit hours of elective courses, and 1.5 credit hours of work experience).
- Students must achieve an average GPA of 2.5 (C+) in the program and must not have a grade lower than a "C" in every program course.
- Students must complete all course work within six (6) years from the date of the first registration in the program. Application for extension of this time limit must be received prior to the end of the six year time frame and approved by the Dean of Extended Education.

| Course No. | | Cr. Hrs. |
|------------------|--|----------|
| Required Courses | | 27 |
| ARTS 1110 | Introduction to University | 3 |
| NATV 1220 | The Native Peoples of Canada 1 | 3 |
| ENVR 1000 | Environmental Science 1 – Concepts | 3 |
| NATV 1240 | Then Native Peoples of Canada 2 | 3 |
| ENVR 2000 | Environmental Science 2 – Issues | 3 |
| ENVR 3160 | Environmental Responsibilities and Law | 3 |
| NATV 2100 | Aboriginal Spirituality | 3 |

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|------------------|--|------|
| ENVR 3250 | Environmental Assessment | 3 |
| NATV 3310 | Canadian law and Aboriginal People | 3 |
| GEOG 4260 | Sacred Lands and Sacred Spaces of Indigenous Peoples | 3 |
| Elective Courses | | 28.5 |
| ENVR 2010 | Field Studies in Environment | |
| | GPS Field Survey and Sampling | 1.5 |
| | Field Readiness and Outdoor Survival | 1.5 |
| | Wildlife Sampling, Stewardship and GIS | 1.5 |
| ENVR 2010 | Extended Field Topics in Environmental Science 1 | |
| | Basic Communication and Statistical Skills | 3 |
| | Biological and Ecological Concepts | 3 |
| | Landscape Sampling and Boreal Forest Stewardship | 3 |
| | Environmental Health | 3 |
| ENVR 3000 | Multidisciplinary Topics in Environmental Science 1 | |
| | Ecosystem Management Techniques | 3 |
| | Biogeography | 3 |
| | Concepts in Wildlife Management | 3 |
| | Ecology of the Boreal Region | 3 |
| | Parks and Protected Areas | 3 |
| | Indigenous Stewardship | 3 |
| ENVR 3010 | Field Topics in Environmental Science 1 | |
| | Water Quality Assessment | 1.5 |
| | Issues in Sustainable Forestry | 1.5 |
| | Soil Characterization | 1.5 |
| | Wildlife and/or Fisheries Techniques | 1.5 |

| | | |
|-----------|---|-----|
| EER 1000 | Earth: A User's Guide | 3 |
| GEOL 1340 | The Dynamic Earth | 3 |
| GEOG 1290 | Introduction to Physical Geography | 3 |
| BIOL 1000 | Biology: Foundations of Life | 3 |
| BIOL 1010 | Biology: Biological diversity and Interaction | 3 |
| BIOL 2390 | Introductory Ecology | 3 |
| Required | Work Experience Program | 1.5 |

An academic committee will select the elective courses for each cohort offering of the program.

First Nations Community Wellness Diploma

The First Nations Community Wellness (FNCW) Diploma offers an excellent program of studies for people who wish to expand their knowledge and skills in Aboriginal mental health and community wellness services. The Diploma is offered in partnership with First Nations and Inuit Health and the University of Manitoba's Extended Education, as well as the Faculties of Social Work, Kinesiology, Health Sciences, College of Nursing and Arts: Native Studies and Psychology. The FNCW Diploma provides students with higher education that respects Indigenous knowledge and Western theory through education based on Aboriginal values concerning wellness. The 60-credit hours of the FNCW Diploma are typically delivered as 7-day modules in an off-campus location or via blended/technology-based delivery. Students are eligible for transfer of credit into degree programs in the participating faculties at the University of Manitoba.

Program and Graduation Requirements:

- Students must pass 60 credit hours of the program including 33 credit hours of required courses, and 27 credit hours of elective courses or the equivalent of degree and non-degree credit.
- Students must achieve an average GPA of 2.0 (C) in the program.
- Students must complete all course work within six (6) years from the date of the first registration in the program. Application for extension of this time limit must be approved by the Dean of Extended Education.

| Course No. | | Cr. Hrs. |
|------------------|------------------------------------|----------|
| Required Courses | | 33 |
| ARTS 1110 | Introduction to University | 3 |
| SWRK 2080 | Interpersonal Communication Skills | 3 |
| NATV 1220 | The Native Peoples of Canada 1 | 3 |
| NURS 3350 | Counselling Skills for Nurses | 3 |
| PSYC 1200 | Introduction to Psychology | 6 |

| | | |
|------------------|--|----|
| NATV 2100 | Aboriginal Spirituality | 3 |
| HNSC 1100 | Nutrition for Healthy Living | 3 |
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| SWRK 4070 | Addictions (Select Topics in Social Work) | 3 |
| NATV 3240 | Native Medicine and Health | 3 |
| Elective Courses | | 27 |
| KPER 1400 | Concepts of Recreation and Leisure | 3 |
| HNSC 2130 | Nutrition through the Life Cycle | 3 |
| HNSC 1200 | Food: Facts & Fallacies | 3 |
| FMLY 1000 | Families in Contemporary Canadian Society | 3 |
| FMLY 1012 | Introduction to Social Development | 3 |
| FMLY 2012 | Development, Conflict and Displacement | 3 |
| SWRK 4050 | Community Management and Evaluation (Select Topics in Social Work) | 3 |
| SWRK 2050 | Community and Organizational Theory | 3 |
| SWRK 3100 | Systematic Inquiry in Social Work | 3 |
| PSYC 3460 | Abnormal Psychology | 3 |
| NATV 3100 | Aboriginal Healing Ways | 3 |
| NATV 3240 | Native Medicine and Health | 3 |
| NATV 4250 | Topics on Aboriginal Identities | 3 |
| NURS 1260 | Human Growth and Development | 3 |
| NURS 3340 | Providing Care in a Culturally Diverse Society | 3 |
| PHED 3770 | Aboriginal Games and Activities | 3 |
| KPER 2200 | Program Planning Principles | 3 |

Elective courses will be selected by the First Nations Community Wellness Diploma's Curriculum and Management Committee once a specialization has been determined.

Aboriginal Child and Family Services Diploma Program

(This program is not being offered in the 2019/2020 academic year).

The Aboriginal Child and Family Services Diploma Program provides an opportunity for students to build their knowledge and skills base in the area of child protection and family enhancement. The program would be of interest to those individuals who are currently employed, or who anticipate future employment in the field of Aboriginal Child Welfare. The diploma consists of 60 credit hours with students completing 9 required courses and 12 credit hours of electives. There is also a comprehensive program orientation to provide students with the foundational skills to assist in their studies. Students are eligible for transfer of credit into degree programs in the participating faculties at the University of Manitoba.

2.2 Continuing and Professional Studies

General Office: 185 Extended Education Complex
Telephone: 204 474 8800

A diverse selection of short courses/programs, certificates, diplomas, and post baccalaureate certificates and diplomas are offered for professional and personal development in Education, Management and Leadership, Science/Environment, University Skills courses, Higher Education, as well as Health and Social Services. For more information call 204-474-8800 or visit umextended.ca

Education

Certificate in Program Development for Adult Learners (PDAL)

This certificate program responds to the expressed needs of business and industry for a program tailored specifically for people who develop and/or deliver teaching and training to adults, are instructional designers, program planners, curriculum developers or evaluators in a variety of work environments. One of its kind in Canada, this innovative program ushers in a new era of professional development for you, your employer, and the people you educate.

Teaching English as a Second Language (TESL)

Teach English to newcomers or teach abroad with confidence and the power of your Teaching English as a Second Language credential behind you. The University of Manitoba's TESL program is an intensive online training program followed by an in-class practicum. Learn online from wherever you are and put your knowledge into practice at a practicum near you, in a real ESL classroom setting.

Post-Baccalaureate Certificate in E-Learning (PBCE)

This two-streamed program, teaching and design, offers a theory-based, yet hands-on approach to using instructional systems and learning technologies to design and/or deliver educational materials. Designed for new and more experienced educators and professional trainers, the PBCE program explores the latest developments in online educational technology; provides a solid foundation in e-learning planning, implementation and program management; and offers an opportunity for professionals to gain the knowledge to design, implement, and manage online learning in educational and business settings.

Letter of Accomplishment in E-Learning (LOA: E)

This two-streamed program, teaching and design, is for both new and more experienced educators and professional trainers who want to gain foundational knowledge and techniques in instructional design, e-learning technologies, teaching in an online environment, and the coordination of e-learning projects.

Management and Leadership

Certificate Program in Management and Administration (CIMA)

The Certificate in Management and Administration is designed for supervisors, managers and professionals who are seeking to enhance their management and leadership skills and obtain a University of Manitoba credential along with a professional designation. Offered in proud partnership with the Canadian Institute of Management, the program includes courses in business administration, managerial communication, financial management, and strategic analysis. Graduates will earn the right to use the designation CIM, Certified in Management.

Certificate in Human Resource Management Certificate (HRM)

The Human Resource Management Certificate provides students with the leadership, teamwork, communication and strategic planning skills necessary for a successful career in human resources. This comprehensive program covers key topics such as employee relations, human resource legislation, and staff training and development, while also introducing students to the professional competencies required for CPHR designation. This program of studies is ideally suited for professionals looking to start or advance their career in human resources.

Certificate in Business Analysis (BA)

This program will provide a high-level, multifaceted introduction to the growing field of business analysis (BA). It will prepare students for BA employment and help them move towards future certifications from organizations, such as the International Institute for Business Analysis (IIBA) and/or Project Management Institute (PMI).

12-month Intensive Packages

12-month packages are composed of a Certificate and Letter of Accomplishment (LOA) in Career Preparation, with an additional option to do a work-placement. There are currently three Intensive packages:

- Applied Business Management, ABM (Certificate in Management and Administration + LOA Career Preparation)
- Applied Human Resource Management, AHRM (Certificate in Human Resource Management + LOA Career Preparation)
- Applied Business Analysis, ABA (Certificate in Business Analysis + LOA Career Preparation)

Certificate in Quality Management (QM)

The Quality Management Certificate is designed for professionals wishing to implement or manage quality assurance and control programs within their organizations. It provides learners with the necessary knowledge and skills to implement effective quality assurance principles and plan and manage quality control processes. This program is beneficial for professionals working in a wide range of sectors – government, education, healthcare, manufacturing, and the service industry.

Certificate in Manitoba Municipal Administration (CMMA)

The Certificate in Manitoba Municipal Administration provides students with the knowledge and skills required to assume administrative responsibilities within small to mid-sized municipalities. This comprehensive program, which can be completed in one year, covers key topics for current and future municipal administrators, including municipal accounting, municipal law and municipal administration.

Letter of Accomplishment in Introductory Business Accounting (LOA: IBA)

The Letter of Accomplishment (LOA) in Introductory Business Accounting provides students with introductory skills in financial management and accounting. It is intended for students who have little or no background in the field, but are required or interested in obtaining foundational skills in the areas of finance and accounting. The LOA consists of two courses: Introductory Accounting for Business, which provides an understanding of basic accounting principles; as well as Financial Management, which seeks to introduce students to the broader field of managerial finance.

Letter of Accomplishment in Change Management (CM)

The Letter of Accomplishment (LOA) in Change Management provides new or emerging change management specialists and other professionals the opportunity to participate in professional development. The program focuses on key foundation change management practices and skills and consists of two courses (54 contact hours in total).

Letter of Accomplishment in Career Preparation (LOA: CP)

The Letter of Accomplishment (LOA) in Career Preparation is composed of six assessed workshops that service as an introduction to the Canadian workplace. The LOA is part of the Intense Packages (ABM, AHRM and ABA).

Post-Baccalaureate Certificate in Aerospace Program Management (PAMP)

The Post-Baccalaureate in Aerospace Program Management offers the tools and knowledge needed to be a leader in the sophisticated and dynamic aerospace industry. The Post-Baccalaureate Certificate is an advanced credential in aerospace program management designed for current and future project, production, and operational managers, design engineers, and procurement and logistics specialists wishing to enter the field or advance their career in the aerospace industry. Learners will develop an in-depth understanding of the complete life cycle of an aerospace system; from initial identification of system requirements, to the design, manufacturing and marketing of the system, to its ongoing employment and maintenance.

. Partnership Management and Leadership Programs

Certificate Program in Public Sector Management (CPSM)

The Certificate in Public Sector Management (CPSM) is co-sponsored by the Government of Manitoba. A strong emphasis is placed on integrating the important and current issues affecting all levels of government in Manitoba. The instructors have a wealth of hands-on senior management experience in the public sector.

United Way of Winnipeg Leadership Development Certificate Program (UW)

This program is offered in partnership with United Way and provides extensive training to Sponsored Executives. Sponsored Executives are leaders or potential leaders in their workplace who have a commitment to their community and are willing to serve as ambassadors for the United Way of Winnipeg and their organizations.

Certificate in Applied Management (CAM)

The Certificate in Applied Management provides participants with the opportunity to study in common management courses and in courses specific to a field of Specialization. All CAMs are offer in partnership with industry There are currently five areas of specialization:

- Utilities Management (partner Manitoba Hydro)

- Retail Management (partner Manitoba Liquor and Lotteries Corporation)
- Leadership Development (partner Biosciences Association Manitoba)
- Customer services specialization (partner Manitoba Customer Contact Association)
- Organizational effectiveness (partner QNET)

Science and Environment

Field Readiness and Safety Course (EEAS 0110)

A field course designed to provide students with hands-on review of field safety techniques (e.g., navigation, wildlife encounters, land and water safety). Students will spend five days in the field combined with class room instruction. Upon successful completion of the course students will receive a Letter of Accomplishment.

University Skills Courses

Basic Mathematical Skills (MSKL 0050)

This course provides an overview of basic computational, algebraic and geometric concepts, the mastery of which will be essential for success in a pre-calculus course. Students will learn the basic concepts of calculations involving integers and fractions, algebraic computations such as factoring and solving equations, as well as some geometry such as coordinator geometry and right angle trigonometry. Upon successful completion of this course the student will receive a letter grade which will demonstrate preparation for entry into MSKL 0100 Math Skills course, a pre-requisite to many first year mathematics courses. Students must register through FlexReg: <https://umextended.ca/math-skills/>

Mathematical Skills (MSKL 0100)

This course is designed, but not exclusively, for students preparing to enter first-year mathematics courses. Students will learn how to apply mathematical skills consistently and with confidence. The courses include a review of fundamental concepts, demonstrations, problem solving, applications and regular testing. Students must register through FlexReg: <https://umextended.ca/math-skills>

Chemistry Skills (CSKL 0100)

This course provides a review of high school chemistry. Upon fulfillment of the course requirements you will receive a pass/fail, acceptable to the Department of Chemistry as evidence of preparation for entry into selected University of Manitoba chemistry courses. Students must register through FlexReg: <https://umextended.ca/chemistry-skills>

Physic Skills (PSKL 0100)

This course provides a review of high school physics. Upon fulfillment of the course requirements you will receive a pass/fail to the Department of Physics as evidence or preparation for entry into selected University of Manitoba physics courses. Students must register through <https://umextended.ca/physics-skills/>

Higher Education

Certificate in University & College Administration (CUCA)

The program is designed to provide a background to the complex cultures and administrative challenges found in modern universities and colleges,

and to help practitioners become integral members of the academic administrative team.

Higher Education Administration (HEA)

The letter of accomplishment in Higher Education Administration will prepare entry-level or mid-level professionals in Canadian universities, polytechnics, and colleges to become integral members of the administrative team by developing a greater understanding of how the context in which they work impacts their role, and by acquiring skills and abilities to enhance their performance.

Letter of Accomplishment in Academic Advising (LOA: AA)

The Letter of Accomplishment (LOA) in Academic Advising provides an understanding of the academic advising landscape in Canada and enables advisors at all levels to deepen their understanding of the theories and practices associated with academic advising and to provide enhanced service to students and their institutions. The LOA is composed of three core courses and two electives.

Health and Social Services

Certificate in Applied Counselling (ACC)

The Applied Counselling Certificate provides an introduction to the counselling process and helps learners develop effective counselling strategies. It is ideally suited for anyone working in a counselling context through paid or volunteer work. Participants' varied workplaces include: health care, education, social services, and government.

Through this program, the student can choose a General Stream or Specialization in Addictions Studies. The later combines' courses in the ACC program with courses from the Addictions Foundation of Manitoba (<https://afm.mb.ca/>).

Intensive English Program (IEP)

The Intensive English Program offers seven levels of English instruction from beginner to advanced, through sessions ranging in length from four weeks to one year, and consisting of 24 hours of classroom instruction per week throughout the year. English classes in reading, writing, speaking and listening as well as socio-cultural activities constitute the basis of this program. This program provides valuable language training, but does not meet the University of Manitoba's English language proficiency requirements.

2.3 Extended Degree Studies

General Office: 185 Extended Education Complex
Telephone: 204-474-8800

General Studies

General Studies provides opportunities for students to take credit courses at the University of Manitoba without being enrolled in a degree program. General Studies students include professionals developing their careers, students satisfying entrance requirements to professional and other faculties, seniors enriching their lives, students visiting from other institutions, and individuals exploring a career change. Courses are available in the Fall, Winter and Summer terms and are offered on campus and online.

General Studies Student Advisors are available to assist with course and program planning and to provide admission and registration information throughout the year.

Admission

Prospective students are required to submit an online application to the Division of Extended Education (General Studies) in one of the following categories: Special Student, Auditing Student, Mature Student (Canadian Military only), or Visiting Student. Detailed information on eligibility requirements may be found at umanitoba.ca/admissions or by contacting the General Studies office.

Registration

All General Studies students register for courses using Aurora; for more information on how to register, go to: <http://umanitoba.ca/registrar/>, click on "How to Register". Registration for Fall & Winter term courses will begin towards the end of July. To determine your initial access date, log onto Aurora in early July (select Enrolment & Academic Records, Registration & Exams, Registration Time & Status).

Please refer to umanitoba.ca/registrar for helpful links regarding registration procedures, fee information, and examinations. Note that applicable prerequisites as outlined in Aurora Student (Course Catalog) must be fulfilled prior to registering in a course.

You may register for up to a maximum of 30 credit hours in the combined Fall and Winter terms, and up to a maximum of 15 credit hours in any one term, including Summer Session.

Special Students

To be eligible for admission, students must have 24 credit hours completed of university level studies (please refer to transfer credit policies).

Special students are those taking course(s) for professional development or personal learning, students with a degree taking a few courses to satisfy entry requirements to a faculty, students who have completed previous university/college course work, and those wanting to increase their GPA for admission to a faculty, college, or school.

Special Students pay the application fee and provide all official transcripts from external institutions attended. If born outside Canada and now a permanent resident or Canadian citizen, you are required to provide proof of status in Canada. If English is not your first language, you are required to provide [English Language Proficiency results](#).

Transfer credit - A General Studies Student Advisor will enter overrides for external courses that have been evaluated by the University of Manitoba and satisfy prerequisite requirements, provided the prerequisite grade requirement has been satisfied. To access the Transfer Credit Equivalencies database, visit aurora.umanitoba.ca, click on Transfer Credit Equivalencies. Note that external credits are not officially evaluated for transfer credit until an application to a degree granting faculty/school is received by the Admissions Office. For more information regarding evaluation of external courses, contact a General Studies Student Advisor.

Returning Special Students

If you need help with course selection or have any concerns about your status, contact a General Studies Student Advisor.

Visiting Students

Visiting students who have been admitted and registered previously in at least one course are eligible to register in a subsequent session without reapplying for admission provided your home university has not changed since you last registered in General Studies, you have a Letter of Permission from your home institution approving the selected course(s), and you

provide the Letter of Permission has been submitted to General Studies prior to registering.

The Letter of Permission from your home institution overrides all prerequisites as stated in the course descriptions in the Undergraduate Calendar, except where a course requires Department Head or Instructor approval. This approval needs to be submitted to a General Studies Student Advisor prior to registration. We recommend that you start the process with your home institution early and have a selection of alternate courses approved in case the initial course(s) is/are full.

Auditing Students

This option is available to Canadian Citizens/Permanent Residents only.

Auditing students should obtain written permission from the course instructor to audit a course. The written permission and your written consent must be submitted to a General Studies Student Advisor who will manually register you for the course(s). New auditing students must apply for admission. Please contact General Studies for more information.

Senior Students

Adults who are 65 years by Sept. 1 (Fall term), Jan. 1 (Winter term), or May 1 (Summer term) and who are Canadian citizens or Permanent Residents will not pay application or tuition fees. Proof of age and citizenship/residence status, and English language proficiency may be required. Seniors can apply to General Studies as a Special Student to take course(s) for credit or as an Auditing Student to take courses for personal interest only.

Courses Available to General Studies Students

All courses in the following faculties and schools are available to General Studies students. Prerequisites may be required for some courses as specified in the course descriptions.

Clayton H. Riddell Faculty of Environment, Earth, and Resources
Faculty of Agricultural and Food Sciences
Faculty of Arts
Faculty of Science
I.H. Asper School of Business
School of Art (visiting students may not register in any course offered by the School of Art)

All courses offered in the following faculties require teaching faculty written approval before registering, with the exception of courses open to all students as listed under University 1:

Faculty of Architecture
Faculty of Education (5000 level courses only)
Faculty of Engineering
Faculty of Health Sciences
Faculty of Kinesiology and Recreation Management
College of Nursing
Faculty of Social Work (students with less than 30 credit hours)
Marcel A. Desautels Faculty of Music

Academic Regulations and Policies Applicable to all General Studies Students

Academic Assessment and Progression Rules: Academic Assessment gauges student success at the University. Formal academic assessment shall be done following each academic term for all General Studies students who have completed 30 credit hours or more of attempts. In order to be in "good standing" in General Studies, a student must achieve a degree Grade Point Average (GPA) of 2.00 or greater at each assessment period. Students

in "good standing" may continue in General Studies or, preferably, transfer to a target faculty.

Students who do not achieve a degree GPA of 2.00 will be placed "on probation", which will appear on the student's transcript. Once "on probation", a student will be allowed to register for another term (or terms). At each point of assessment, a student "on probation" must achieve a term GPA of 2.00 in order to proceed. In order to clear probation, a student must achieve a degree GPA of 2.00. While "on probation", students are encouraged to consult a General Studies Student Advisor prior to registration and on a regular basis thereafter.

If a student does not succeed in achieving a term GPA of 2.00 by the end of the probation period, they will be placed on "academic suspension" for one calendar year. A student on "academic suspension" is normally not allowed to register in another faculty or school at the University of Manitoba or to attend any other post-secondary institution during the time of suspension. Following the suspension period, a student may reapply for admission to General Studies.

Credit Hour Policy: In an effort to assist students with academic decisions, all students who have completed 30 credit hours of study with General Studies will be required to meet with a General Studies Student Advisor before being allowed further registration. Until such time as the student meets with an advisor, a block will be placed on their record that prevents further registration.

Diploma in Labour Relations and Workplace Studies

The Diploma in Labour Relations and Workplace Studies was originally approved by Senate in 2002. Extended Education, along with the Labour Studies program, Faculty of Arts, developed this comprehensive university-based program that is intended to provide necessary knowledge and skills to conduct improved labour and industrial relations. The intended audience of the program is labour representatives and industrial relations practitioners. The program has been designed in a manner that is accessible for working people qualified to enter General Studies, and able to access evening, off campus courses, and courses offered during Summer term.

The Diploma in Labour Relations and Workplace Studies provides a broad educational experience in labour relations and workplace studies, including courses in economics and politics of work, unions and labour relations, employment legislation, labour law, and pensions and benefits.

The diploma is composed of 30 credit hours of Labour Studies coursework.

| Course No. | | Cr. Hrs. |
|------------------|--|----------|
| Required Courses | | |
| LABR 1260 | Working for a Living | 3 |
| LABR 1290 | Introduction to the Canadian Labour Movement | 3 |
| Electives | | |
| LABR designated | 2000 level courses | 6 |
| LABR designated | 3000 level courses | 18 |

LABR 1260 and LABR 1290 are prerequisites to all other courses in the program and must be completed as the first two courses with a minimum grade of "C". Upon successful completion of these two prerequisites, students may complete the electives in the order they choose, subject to availability.

Students are required to complete all 30 credit hours and achieve a 2.5 GPA with a minimum grade of "C" in each course.

Application Process: Complete the Application for the Diploma in Labour Relations and Workplace Studies, available from umextended.ca/labour-studies/

Dual Credit: Students currently admitted into another Faculty at the University of Manitoba may also apply for the Diploma in Labour Relations and Workplace Studies.

Graduation: Upon completion of the designated 30 credit hours of study, students must indicate their intent to graduate in Aurora Student or contact the General Studies student advisor.

Degree Credit: All courses from the Diploma in Labour Relations and Workplace Studies are transferable to a degree program in the Faculty of Arts and possibly other faculties. Students who have received external transfer credit towards the Diploma program should note that some faculties and schools may have limitations on external transfer credit taken beyond a specific period. This information may be found in each faculty chapter of the University of Manitoba Undergraduate Calendar.

For more information, contact:

General Studies, Division of Extended Education
185 Extended Education Complex
Telephone: 204.474.8800
Canada: Toll-Free 1.888.216.7011
Fax: 204.272.1626
umextended.ca/guides/

MILITARY SUPPORT OFFICE

The Military Support Office is designed to assist Canadian Armed Forces personnel and their immediate family members in the pursuit of a university education.

Through this unique office, the University of Manitoba acknowledges and accommodates the difficulties which extensive mobility can create for military members wishing to complete university degree programs. Recognition is given for a wide range of military training, and provision may be made for academic and financial relief when military duties interrupt studies. Academic counselling is available.

Courses are available through distance and online education or on campus, either part-time or full-time. A Mature Student entry program is also available.

For more information, contact:

Warren Otto M.A., Academic Advisor
Military Support Office
Extended Education
185 Extended Education Complex
University of Manitoba
Winnipeg, Manitoba, Canada R3T2N2
Phone: 204.474.8006
Toll Free: 888.216.7011 ext. 8006
Fax: 204.474.7660

Warren.otto@umanitoba.ca
umextended.ca/military-support/

2.4 Inter-Universities Services Program

In cooperation with Brandon University and the University of Winnipeg, undergraduate courses are offered in communities north of the 53rd parallel. Telephone: 1-866-627-8500 and ask for Lavina.

Rady Faculty of Health Sciences

Dean: Dr. Brian Postl
 Campus Address/General Office: A105 Chown-753 McDermot Avenue
 Telephone: (204) 789-3485
 Email Address:
brian.postl@umanitoba.ca

The Faculty of Health Sciences was created with the amalgamation of the University's former health sciences faculties (Dentistry, Medicine, Nursing, Pharmacy, Human Ecology) and former schools (Dental Hygiene and Medical Rehabilitation). Professional Colleges within the Faculty are the: College of Dentistry (including the School of Dental Hygiene), College of Medicine, College of Nursing, College of Pharmacy, and College of Rehabilitation Sciences. All existing programs of these units will initially be offered by the proposed new faculty.

In addition to the above programs, the administration of the Interdisciplinary Health Programs (B.H.Sc. and B.H.St.) and General Human Ecology (B.H.Ecol.) program from the Faculty of Human Ecology (HE) will be transferred to the Faculty of Health Sciences (FHS). As such, effective Fall 2015 term, the programs will be transferred to, and administered by, the Faculty of Health Sciences.

Dr. Gerald Niznick College of Dentistry

Dean: Dr. Anastasiia Kelekis-Cholakis
 Campus Address/General Office: D113 Dentistry Building, Bannatyne Campus
 Email Address: info_dent@umanitoba.ca
 Telephone: (204) 789 3631
 Fax: (204) 789 3912
 Website: <http://umanitoba.ca/healthsciences/dentistry/>
 Academic Staff: Please refer to the Faculty website at umanitoba.ca/faculties/dentistry
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SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | Years to Complete | Total Credit Hours (dental program only) |
|---|---|--|
| Doctor of Dental Medicine (D.M.D.) (4 year program) | Minimum time to graduation: Six years (University 1, plus one year or 2 years in either the Faculty of Science or Arts, plus four years in the College of Dentistry). | 154 |
| Doctor of Dental Medicine (D.M.D.) (International Dentists Degree Program [IDDP] 2 year program) | After an 8 week summer orientation students in this program complete the 3 rd and 4 th year of the dental program. | 74 |
| Bachelor of Science in Dentistry (note: only students enrolled in the D.M.D. program are eligible for admission) | This program is completed over two (2) summers, normally commencing after first year in the dental program. | NA |

1.2 The Profession of Dentistry

The Dr. Gerald Niznick College of Dentistry is dedicated to educating dental, dental hygiene and graduate students in a progressive learning environment, conducting research in oral health, and serving the community and the oral health professions as a source of knowledge and expertise. The college serves as a bridge between the fundamental scientific foundation of the profession and its translation into health care for the public. Dentists enhance and promote the total health of patients through oral health management. Dentists are concerned with promoting oral health and preventing and alleviating the effects of oral diseases and conditions in order to contribute to the well-being of their patients.

The curriculum is designed to ensure that students graduate as competent dentists prepared to meet the oral health care needs of their patients. It provides the knowledge of basic biomedical, behavioural and clinical

sciences and biomaterials, the cognitive and behavioural skills, and the professional and ethical values necessary for practice as a dental professional.

Information on the Dental Hygiene program is in the chapter, [School of Dental Hygiene](#).

National Examining Body

Graduates of this college are required to sit a written examination and an objective structured clinical examination during the calendar year of their graduation, administered by the National Dental Examining Board of Canada. The NDEB certification granted to graduates who pass these examinations, entitles them to apply for a license to practice in all provinces of Canada. The provinces of Ontario and Quebec have additional requirements. For information contact: The Registrar, [National Dental Examining Board](#), 80 Elgin Street, 2nd Floor, Ottawa, Ontario K1P 6R2; telephone (613) 236 5912; e-mail: director@ndeb.ca

Licensing Requirements

A graduate of the Dr. Gerald Niznick College of Dentistry, who has received NDEB certification, is entitled to apply to the Manitoba Dental Association to obtain a license to practice within the province of Manitoba. For information on licensing requirements and the application process please contact: The Registrar, [Manitoba Dental Association](#), 202 - 1735 Corydon Avenue, Winnipeg, Manitoba R3N 0K4; telephone (204) 988 5300; e-mail: office@manitobadentist.ca

Other Licensing Bodies

For regulations governing licensure in other areas (e.g., other provinces, the United States), candidates are advised to write the licensing body in the province/state in which they are interested.

SECTION 2: Admission Requirements

2.1 Doctor of Dental Medicine

Minimum time to graduation: Six years (University 1, plus one year in the Faculty of Science or Arts or Extended Education; or 2 years in the Faculty of Science or Arts; plus four years in the Dr. Gerald Niznick College of Dentistry).

The following is a summary of the admission requirements. Equivalent academic courses completed at recognized universities elsewhere will be considered. All admission requirements, as well as application deadline dates and forms, are included in an application bulletin that is available from on the university's website ([dentistry](#)).

Minimum 60 credit hours of pre-Dentistry study including:

BIOL 1020 and BIOL 1030

CHEM 1300 and CHEM 1310

CHEM 2210 and CHEM 2220

CHEM 2360 and CHEM 2370 or MBIO 2360 and MBIO 2370

PHYS 1020 and PHYS 1030 or PHYS 1050 and PHYS 1070

6 credit hours of English (taught through the English Department, usually with ENGL prefix)

6 credit hours of Humanities/Social Sciences which must be in the non-applied sciences or non-pure sciences.

18 credit hours of electives (We do not recommend specific courses).

All science courses must include the laboratory component.

Other requirements

High school prerequisites: Chemistry 40S, Pre-Calculus Mathematics 40S or Applied Mathematics 40S, Physics 40S and Biology 40S.

The 6 credit hours of English satisfies the written English requirement; the mathematics requirement must be met in the first 60 credit hours even though it is not a specific admissions requirement (PHYS 1020(M) meets the mathematics "M" requirement).

The English Canadian Dental Aptitude Test (DAT) must be written no later than the November test date prior to the application deadline.

A personal interview is required.

Admission is competitive.

Information on the admission process may be accessed through the Dr. Gerald Niznick College of Dentistry's web page (<http://umanitoba.ca/healthsciences/dentistry/>) or by visiting the Admission website at: <http://umanitoba.ca/student/admissions/application/programs/dentistry-application.html>

Selection criteria: Grades (AGPA), interview and DAT score equally weighted.

Students should be aware that if admitted they must provide an official Adult Criminal Record Check (including Vulnerable Persons Screening), an Adult Abuse Registry Check* and a Child Abuse Registry Check* as well as a signed acknowledgement of the *Essential Skills and Abilities for Admission, Promotion and Graduation in the DMD Program* document prior to registration. See Section 3 for further information on these requirements.

*The College will provide further information on the application process (to be completed through the College)

2.2 Bachelor of Science in Dentistry

In addition to the basic professional degree, the college offers the Bachelor of Science in Dentistry degree to interested dental students wishing to undertake research during their undergraduate program. The program is designed to assure that participation in it will not interfere with the student's dental degree. Through active participation in a research program, the students will be given the opportunity to develop skills in applying scientific knowledge to dental practice and an interest in dental research. In addition, the program will serve as a preparatory step for entry into various graduate programs. Information on admission to this program is available from the Dean's Office and through the Dr. Gerald Niznick College of Dentistry's web page <http://umanitoba.ca/healthsciences/dentistry/>.

2.3 International Dentist Degree Program (IDDP)

The Dr. Gerald Niznick College of Dentistry, University of Manitoba, offers the International Dentist Degree Program (IDDP) to graduates of international dental programs that are not accredited by the Commission on Dental Accreditation of Canada. After a summer orientation program, students enter the 3rd year of the regular dental program of the College. Upon satisfactory completion of the 3rd and 4th years of the dental program, IDDP participants will be awarded the Doctor of Dental Medicine (DMD) degree. All graduates of DMD programs in Canada, once having passed the National Dental Examining Board of Canada (NDEB) examinations, are eligible for licensure/registration as a dentist in all provinces in Canada.

Requirement to the IDDP program can be found at the Dr. Gerald Niznick College of Dentistry's website at: <http://umanitoba.ca/student/admissions/application/programs/iddp-application.html>

Please note that there are two tracks which may be applied to.

Should you have specific questions that cannot be answered from the above website, please call the IDDP Coordinator at (204) 977-5611.

SECTION 3: College Academic Regulations

All students are asked to note that some academic policies and regulations are under review and are subject to change. Please check the Web Calendar at umanitoba.ca for updated information.

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the Dr. Gerald Niznick College of Dentistry has regulations and requirements, published below that apply specifically to its students.

The Dr. Gerald Niznick College of Dentistry expects all students to participate fully in their educational experience. This means participation above and beyond the requirements of individual courses. For example, as a part of their clinical experiences, all students must learn skills of a clinical nature, such as local anesthesia, rubber dam placement, etc. Our teaching approach includes having students practice these skills on each other. All students are expected to participate in these activities.

Further, the college has an expectation of all students that they are aware of and maintain attitudes and behaviours which exhibit a level of professionalism, empathy, and consideration of all members of their community, including faculty, staff, students or patients, similar to what is expected of an oral health practitioner.

The following policies have been adopted by the College to aid students in understanding the value the College places on these conducts/behaviours.

3.1 Essential Skills and Abilities for Admission, Promotion and Graduation in the DMD Program

As an accredited Canadian dental program, the Dr. Gerald Niznick College of Dentistry, Rady Faculty of Health Sciences at the University of Manitoba is responsible for providing a program of study that ensures graduates have the necessary qualifications (academic knowledge, clinical skills, and professional behaviors and attitudes) to enter the regulated profession of Dentistry in Canada. Becoming and being a dentist requires a wide range of highly specialized skills and abilities. Some of these are taught in dental school, while others must be brought by the individual as an innate set of essential skills and abilities. The criteria for becoming registered/licensed as a dentist in Canada requires a level of motor skills and other attributes that are not necessary in other professional occupations. Similarly, the ability to provide reasonable accommodation for special learning needs in dentistry may not be the same as it is for other academic programs.

It is important to note that an offer of admission to the Dr. Gerald Niznick College of Dentistry is not evidence that the dental program has verified that an applicant has the prerequisite skills and abilities for success in the program or in obtaining future professional licensure. However, these skills and abilities are essential if students are to be successful in achieving the competency standards of the profession.

For progression in, and graduation, from the dental program, all students must conduct themselves in a professional manner, and must have the Essential Skills and Abilities (Technical Standards) discussed under the following five broad areas: Observation/perception; Communication; Motor/tactile function; Cognition; Emotional functioning

All applicants to the undergraduate program of the Dr. Gerald Niznick College of Dentistry are expected to review *The Essential Skills and Abilities for Admission, Promotion and Graduation in the DMD Program* document to assess their ability to meet these standards; all applicants offered admission will be required to acknowledge such review and assessment. Any candidate for the DMD degree who cannot demonstrate the required skills and abilities throughout their course of study may be requested to withdraw from the program.

Detailed information for the above policy can be found at:
http://umanitoba.ca/faculties/health_sciences/dentistry/students/1097.html

3.2 Policy on Student Attendance

The Dr. Gerald Niznick College of Dentistry has a social mandate to ensure that graduating dentists are caring, skilled healthcare providers who are worthy of the public trust endowed upon them. In fulfilling this mandate, the Dr. Gerald Niznick College of Dentistry has developed comprehensive programs of education and experience to ensure that graduates meet these high expectations. Unlike non-professional education programs, where students can pick and choose their education and experiences based on personal preferences, Dental School requires students to attend and participate actively in all components of the program.

While students are required to complete assignments and pass examinations, these are not considered to be equivalent to attending Dental School. When the University confers the DMD degree, it attests to society not only that the student has shown successful examination performance, but that the student has participated in the entire educational experience defined by the Dr. Gerald Niznick College of Dentistry and has thereby demonstrated an appropriate level of professional learning and responsibility.

Students at the University of Manitoba, Dr. Gerald Niznick College of Dentistry, are required to attend all scheduled classes, examinations, small group sessions, laboratories, pre-clinical labs, and clinics unless expressly indicated otherwise by the course coordinator in the course outline/syllabus.

Students are required to be on time for all scheduled classes, examinations, small group sessions, laboratories, and pre-clinical labs. Students arriving more than 10-minutes late will be recorded as absent.

Students who do not comply with the Student Attendance Policy will face academic consequences.

Detailed information for the above policy can be found at:
http://umanitoba.ca/faculties/health_sciences/dentistry/students/1097.html

3.3 Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene Professional Unsuitability By-Law

Students must at all times demonstrate suitability for the dental profession. In this regard students are obligated to act with integrity and diligence in carrying out their professional responsibilities, and their behaviour and conduct in relation to others must be characterized by consideration, respect and good faith.

The Dr. Gerald Niznick College of Dentistry may require a student to withdraw from the College when the student has been found unsuited for the practices of dentistry or dental hygiene because the student has been found to have engaged in unprofessional behaviour. A student may be required to withdraw at any time throughout the academic year.

Grounds which may require withdrawal are: demonstrated behaviour which is exploitive, irresponsible, intentionally injurious or destructive to patients; and/or compromised professional judgment through self-interest and/or conflict of interest; and/or an acquired criminal conviction, either in Canada or any other jurisdiction, which is of such a nature as to place in question his/her fitness for the dental professions; and/or participation in any activity related to patient care or any activity related to the practice of the dental professions while under the influence of alcohol or drugs or while abusing prescription drugs; and/or engaging in behaviour or conduct that if engaged in by a practising dentist/dental hygienist would likely result in disciplinary action, including suspension or revocation of the license to practise, by the Manitoba Dental Association or the College of Dental Hygienists of Manitoba.

Detailed information for the above policy can be found at:
http://umanitoba.ca/faculties/health_sciences/dentistry/students/1097.html

3.4 Criminal Record/Adult Abuse Registry/Child Abuse Registry

An adult criminal record, an adult abuse registry and a child abuse registry self-declaration will be required of all applicants at the time of application. A formal Adult Criminal Record Check (including vulnerable sector screening), a formal Adult Abuse Registry Check and a formal Child Abuse Registry Check are required at the time of registration, and annually thereafter keeping in accordance with existing policies of other health, education and social service programs at the University of Manitoba.

Failure to provide these documents may impact on registration and a student's ability to progress in the Dental program.

3.5 Immunization and Blood Borne Diseases Policy

The Dr. Gerald Niznick College of Dentistry and School of Dental Hygiene maintain comprehensive immunization requirements to protect the wellbeing of our students and the health of patients and communities with whom they will have contact during their curriculum.

All students enrolled in the Dr. Gerald Niznick College of Dentistry must have immunity demonstrated against the following diseases: tetanus, diphtheria, pertussis, polio, measles, mumps, rubella, varicella (chickenpox), and hepatitis B. Students need to undergo testing for tuberculosis (TB) infection, unless the student already has a past history of TB infection or TB disease documented. Students must receive yearly influenza vaccinations. Students who cannot receive certain immunizations due to allergies or pregnancy must provide a physician's certificate stating this.

Before the first day of classes, all students must complete and return the University of Manitoba Immune Status Consent Form, as provided by the Dr. Gerald Niznick College of Dentistry Dean's Office. Please note that any supplemental immunization documentation provided to support this document and/or any future submissions of immunization materials must be signed by a physician or nurse. All students are responsible for updating their immunizations as needed.

Students **will not be permitted to attend clinics** until all immunization requirements are satisfied.

For the collection and management of student immunization records, the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene partner with the Rady Faculty of Health Science Immunization Program. The Director of Immunizations and the Program Assistant collect and organize immunization data as well as provide immunization services to students at the Bannatyne campus.

All students are expected to comply with the requirements of the Rady Faculty of Health Science Immunization Program which may change from time to time due to the immunization requirements of external health care facilities where students will be expected to attend as a part of their dental/dental hygiene program.

The Dr. Gerald Niznick College of Dentistry is compliant with the Association of Canadian Faculties of Dentistry (ACFD) *Guidelines for Infectious Disease and Healthcare Workers* document and its recommendations regarding barring students from clinical activities who do not meet these guidelines. Further information on the ACFD guidelines can be found at the following web-site:

<http://acfd.ca/about-acfd/publications/acfd-guidelines-for-infectious-diseases-and-health-care-workers/>

Any student applicant with an infectious disease should either delay their application to the program or disclose this information upon being accepted into the Dr. Gerald Niznick College of Dentistry. Should a student

who has been accepted into the program but has been found to be unable to meet the immunization requirements/guidelines, every effort will be made to accommodate the student until the guidelines are met. In some cases, it may be necessary to suspend or terminate the student from the program if it is shown that the immunization requirements/guidelines are unable to be met.

3.6 CPR Certification

Accepted candidates will be required to show proof of CPR (Health Care Provider level) certification by September 15 of each year. This certification must be maintained on a yearly basis up to the date of graduation. CPR Certification levels accepted by the Dr. Gerald Niznick College of Dentistry are:

Canadian Red Cross: ACLS (Advanced Cardiovascular Life Support for Health Care Providers)

Heart & Stoke Association: BLS for HCP + AED

St. John Ambulance: Health Care Provider Level C and AED

3.7 PHIA

Students are required to maintain confidentiality of patient records and abide by PHIA (Personal Health Information Act) legislation which governs and controls the sharing of personal health information. Students will be required to attend a PHIA orientation and sign a pledge of confidentiality in their first year of the program. This orientation includes content that satisfies PHIA requirements for student participation at external clinical sites under the direction of the Winnipeg Regional Health Authority (WRHA).

3.8 Sharing of Student Personal Information

Once admitted to the Dr. Gerald Niznick College of Dentistry, University of Manitoba, students' personal information is protected by FIPPA (Freedom of Information and the Protection of Privacy Act) legislation. However, prior to first registration, some personal information (name, e-mail, photo) is shared with external partners to facilitate student involvement. Please see further information below:

Mentorship Program

In a partnership between the Dr. Gerald Niznick College of Dentistry and the Manitoba Dental Association (MDA), first year Dental students are assigned a Mentor who is a member of the MDA and a practicing Dentist within the community. Each year, the MDA holds a "Welcome to the Profession" dinner where incoming students are invited to meet their Mentors. Students will then attend two to four Mentorship meetings each year throughout the four year program. The Dr. Gerald Niznick College of Dentistry provides the names, e-mail (U of M) and photographs of all first year Dental students to MDA personnel for the purpose of facilitating student participation in the Mentorship program.

Vital Source Textbook Database

Dentistry student's text books are accessible through an electronic textbook database called Vital Source. In order to provide all Dentistry students with access to their text books, the Dr. Gerald Niznick College of Dentistry will provide Vital Source with the names and e-mail (U of M) of all students for the purpose of authenticating users and providing access to their on-line content.

Manitoba Dental Students Association/Manitoba Dental Hygiene Students Association

Students in the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene become members of and are represented by the Manitoba Dental Students Association/Manitoba Dental Hygiene Students Association. These Associations provide student representation on

College/School and University Committees as well as represent students on various external organizations (CDA/MDA/MDHA, etc.). The Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene provides the names, e-mail (U of M) and photographs of all first year Dental and Dental Hygiene students with the respective student Associations for the purpose of facilitating student participation.

Student information will not be used or disclosed for other purposes, unless permitted by *The Freedom of Information and Protection of Privacy Act* (FIPPA). If you have any questions about the collection or use of your personal information, contact the Access & Privacy Office (tel. 204-474-9462), 233 Elizabeth Dafoe Library, University of Manitoba, Winnipeg, MB, R3T 2N2.

3.9 Instruments Computers and Textbook

Students entering the Dr. Gerald Niznick College of Dentistry will be expected to own or purchase a PC laptop computer (the College only supports PC's given the software used in our clinical facilities) that is compliant with University computer standards (see Bookstore - Computers on Campus for annual listing) and Vital Source Technology software requirements (see www.vitalsource.com for details). The expenditure of a computer may range approximately from \$1000 to \$4000 within the first year of the program. The Vital Source Technologies cost is approximately \$1400 per year for DMD and \$2000 per year for IDDP. These fees will be assessed annually on student's accounts under "Electronic Textbook Fee".

Students are responsible for Clinical Instrument Fees which represent the cost of dental instruments and supplies required for clinical education. These fees will be assessed annually on student's accounts under "Clinical Instrument Fee". These instruments and supplies are the property of students and are retained by the student after graduation.

It is the students' responsibility to maintain the condition of their instruments and stay within allotted supply levels. Any damaged/lost instruments or excessive use of supplies may result in additional charges to students. Over the 4 years of the DMD program, these fees will amount to approximately \$12,700 (\$14,500 for the IDDP program).

The college is unable to provide refunds for clinical instrument or electronic textbook fees and will not accept returns of any student computer software (including Vital Source Technologies), clinical instruments or other items, should a student leave the college for whatever reason and upon graduation.

3.10 Voluntary Withdrawal

Students intending to withdraw from a portion or all of their courses must report immediately in person or in writing to the Dean's Office. No fees will be refunded without the authorization of the dean. Please Note: Computer Software, Clinical Instrument fees and/or Clinical Instrument items are non-refundable. See also the chapter on General Academic Regulations and Requirements.

Students who withdraw from the Dr. Gerald Niznick College of Dentistry without notice will be considered to have terminated their connection with the college. If a subsequent application for registration is approved, they will be required to conform to the rules and regulations, fee schedules, sequence of courses, etc., in effect at the time of such subsequent application.

In cases where a student is obliged to withdraw after the final date of withdrawal published in the *Calendar* because of ill health or other sufficient reasons, their cases will be considered by the dean of the college.

3.11 Required Withdrawal

The Senate of the university has approved bylaws granting certain faculties, colleges and schools the authority to require a student to withdraw on the basis of unsuitability for the practice of the profession to which the

program of study normally leads. Senate has approved such a bylaw for the Dr. Gerald Niznick College of Dentistry (see item 3.3 above).

Full policy information can be found at: http://umanitoba.ca/faculties/health_sciences/dentistry/students/1097.html

3.12 Decisions Concerning Academic Promotions

The letter grade “D” is the lowest acceptable level of performance in each undergraduate course leading to the degree of D.M.D. when the work of any given year is being taken for the first time. (In the case of a repeated year, the minimum passing grade in each course is “C”.)

A student who has a failing grade registered against him/her may not register for the program of the subsequent year, but may, at the discretion of Dental College Council, be permitted to repeat the failed year.

A minimum term GPA of 2.0 in each year is required to qualify a student for standing in that year.

A student who fails to obtain a minimum term GPA of 2.0 and who is not granted supplemental privileges will be considered to have failed the year.

Except by special permission of Dental College Council, no student may repeat more than one year in Dentistry, nor may any year be repeated more than once.

The work requirements of any repeated year may be modified, even increased, at the discretion of the Dental College Council.

The passing grade in each course of a repeated year in Dentistry is “C”.

If a student receives an “F” grade in a fourth year clinical course, they will be required to register and pay a fee for the entire repeated year, and the work in that year may be modified or even increased by Dental College Council.

3.13 Incomplete Standing in the Dr. Gerald Niznick College of Dentistry

The incomplete “I (F)” designation is restricted to clinical courses.

Successful completion of clinical course requirements is through extended clinics rather than supplemental assessment.

A student who is unable to complete the quantitative clinical requirements in a course by the end of the academic year may apply for an incomplete grade classification [“I (F)”] and extension of time. Details of this application procedure can be obtained from the College.

3.14 Supplemental Examinations

A “Supplemental Examination” is an examination which may be offered as a privilege to a student who has failed a course or failed to achieve a satisfactory result. Such examinations are offered in order to grant the student an opportunity to rectify the inadequacy without repeating the course.

Information on Supplemental Examinations can be found in the chapter, [General Academic Regulations](#) at the beginning of this *Calendar*.

The following information regarding the policy of supplemental examination privilege is specific to the Dr. Gerlad Niznick College of Dentistry:

Supplemental examinations are permitted for all courses **except those in which remediation is not realistically feasible (pre-clinical and/or clinical courses are NOT eligible for supplemental examination).**

The student will be notified in a letter from the Dean's Office if he/she is granted this examination privilege by Dental College Council. A student

who is granted supplemental privileges is obliged to sit the examination at the soonest opportunity prior to the start of the next academic session.

The student must contact his/her Course Coordinator within 14 days of the date the notification letter from the Dean's Office to schedule a date to write their supplemental examination.

A student in first, third or fourth year who has failed in not more than two courses, at the regular final examinations of any year, or who fails to obtain a sessional (combined fall & winter GPA) grade point average of 2.0 for all courses taken by him or her, may, at the discretion of Dental College Council, be awarded the privilege of one or two supplemental examinations.

A student in second year who has failed in not more than three courses, or who failed to obtain a sessional (combined fall & winter GPA) grade point average of 2.0 for all courses taken by him or her, may, at the discretion of Dental College Council, be awarded the privilege of one, two or three supplemental examinations.

If a student has any failures he/she must have a minimum sessional (combined fall & winter GPA) grade point average of 2.0, including the failure(s), in order to qualify for supplemental privileges.

If a student has no failures but fails to obtain a minimum sessional (combined fall & winter GPA) grade point average of 2.0, that student may be eligible for supplemental privileges.

When students are allowed to write supplemental examinations for the purpose of raising their sessional (combined fall & winter GPA) grade point average to the minimum standard of 2.0, Dental College Council will specify the courses in which the student may write supplemental examinations. For the purpose of calculating such a student's cumulative grade point average, grade points attained in supplemental examinations will replace the grade points previously attained in the same course. Students are normally required to carry a full-time program in order to be eligible for supplemental privileges.

The passing grade in supplemental examinations is “C” in each course. A student failing a supplemental examination will be considered to have failed the year. A student may only write a supplemental once in any course; otherwise the course must be repeated.

3.15 Honours and Awards

Dean's Honour List: awarded to students in each year of the dental program who have achieved a minimum sessional (fall & winter term combined) G.P.A. of 3.8.

To qualify for Graduation with Honours, a candidate for the D.M.D. degree must qualify for the Dean's Honour List in both third and fourth year.

A student who repeats a year at his/her own request, i.e., not at the request of Dental College Council, is not eligible for the Dean's Honour List or to receive any awards for the work in that repeated year.

The following policy applies to the eligibility of part-time students for academic awards: in allocating any award, the only academic performance of a student to be considered is that attained during the year(s) for which the award is made. Therefore, a part-time student is not eligible for any purely academic award, other than one in an individual course. However, a part-time student who is carrying 80 per cent or more of the normal course load for the year is eligible for any award where conditions other than academic merit apply, and further, subject to the provisions set forth above, any part-time student is eligible for any award in the individual courses taken in the year for which the award is made.

3.16 E-Mail Accounts

All students are expected to have an e-mail account with the University of Manitoba and check it regularly. The Dr. Gerald Niznick College of Dentistry

does not support communications with its students through external e-mail addresses.

3.17 Financial Aid

A number of loan and bursary funds are available to dental students. Applications and further information are available through the University of Manitoba's [Financial Aid and Awards Office](#).

3.18 Registration Exceptions

Upon receipt of initial (and annually thereafter) Criminal Record (including Vulnerable Sector Screening), Adult Abuse Registry Check and Child Abuse Registry Check, the Dr. Gerald Niznick College of Dentistry completes registration for all students in their courses.

Students who have a failing grade/s registered against them and/or have other outstanding academic matters (i.e. deferred or supplemental examinations, modified program, etc.) in regards to the previous academic session will not be registered in the next ensuing academic session until all outstanding matters have been cleared. Students who fall into this category should contact the student advisor for further information.

A student advisor is available in D113 Dental Building or by calling (204) 789-3484.

SECTION 4: Program and Graduation Requirements

4.1 First Year

| Course Number | Course Description | Credit Hours |
|---------------|--------------------------------------|--------------|
| DDSS 1100 | Periodontology 1 | 1 |
| DDSS 1110 | Radiology 1 | 1 |
| DENT 1202 | Early Clinical Experience | 3 |
| DENT 1210 | Dental Practice Management | 1 |
| ORLB 1302 | Cell and Tissue Biology | 4 |
| ORLB 1310 | Head, Neck and Nervous System Part 1 | 4 |
| ORLB 1320 | Head, Neck and Nervous System Part 2 | 3 |
| ORLB 1330 | Human Growth and Development | 3 |
| ORLB 1340 | Oral Tissues Structure and Function | 3 |
| RSTD 1500 | Dental Materials 1 | 2 |
| RSTD 1512 | Operative Dentistry 1 | 6 |
| RSTD 1520 | Dental Anatomy | 3 |
| RSTD 1530 | Occlusion | 2 |
| RSTD 1550 | Introduction to Dentistry | 2 |

4.2 Second Year

| Course Number | Course Description | Credit Hours |
|---------------|--------------------|--------------|
| DDSS 2100 | Periodontology 2 | 2 |

| | | |
|-----------|---|---|
| DDSS 2110 | Radiology 2 | 1 |
| DDSS 2122 | Oral Pathology | 5 |
| DDSS 2130 | Pain and Anxiety Control 1 | 1 |
| DENT 2202 | Introduction to Comprehensive Care | 4 |
| ORLB 2300 | Pathology and Microbiology 1 | 1 |
| ORLB 2312 | Structure and Function of Major Organ Systems | 4 |
| ORLB 2320 | Cariology and Plaque Associated Diseases | 3 |
| ORLB 2330 | Nutrition in Dentistry | 2 |
| PDSO 2430 | Introduction to Orthodontics | 1 |
| PDSO 2410 | Pediatric Dentistry 1 | 3 |
| PDSO 2420 | Dental Public Health | 1 |
| RSTD 2502 | Dental Materials Science 2 | 2 |
| RSTD 2510 | Operative Dentistry 2 | 3 |
| RSTD 2520 | Endodontology 1 | 2 |
| RSTD 2532 | Fixed Prosthodontics 1 | 6 |
| RSTD 2540 | Removable Partial Denture Prosthodontics | 3 |
| RSTD 2552 | Complete Denture Prosthodontics | 4 |

4.3 Third Year *

| Course Number | Course Description | Credit Hours |
|---------------|--|--------------|
| DDSS 3102 | Periodontology 3 | 3 |
| DDSS 3112 | Oral Diagnosis and Radiology 1 | 2 |
| DDSS 3120 | Pain and Anxiety Control 2 | 1 |
| DDSS 3132 | Oral and Maxillofacial Surgery 1 | 2 |
| DDSS 3142 | Medicine | 2 |
| DDSS 3152 | Temporomandibular Disorder & Orofacial Pain | 2 |
| DDSS 3162 | Pharmacology and Therapeutics | 3 |
| DENT 3210 | Dental Practice Management 3 | 1 |
| ORLB 3300 | Pathology and Microbiology 2 | 1 |
| PDSO 3402 | Orthodontics 3 | 2 |
| PDSO 3404 | Dental Public Health 2 | 3 |
| PDSO 3412 | Pediatric Dentistry 2 | 3 |
| RSTD 3512 | Operative Dentistry 3 | 5 |
| RSTD 3522 | Endodontology 2 | 3 |
| RSTD 3532 | Fixed Prosthodontics 2 | 5 |
| RSTD 3542 | Complete and Removable Partial Dental Prosthodontics | 3 |

*IDDP Students must also complete a summer Orientation program prior to commencing the 3rd year of the program (DENT 2440, IDDP Orientation – 6 credit hours)

4.4 Fourth Year

| Course Number | Course Description | Credit Hours |
|---------------|---|--------------|
| DDSS 4122 | Oral and Maxillofacial Surgery 2 | 1 |
| DDSS 4150 | Hospital Dentistry | 1 |
| DENT 4202 | Interdisciplinary Patient Centred Care Case Studies | 2 |
| DENT 4210 | Dental Practice Management 4 | 2 |
| DENT 4222 | General Practice Dentistry | 10 |
| DENT 4232 | General Practice Seminars | 2 |
| DENT 4240 | Dental Jurisprudence | 1 |
| PDSO 4402 | Orthodontics 4 | 2 |
| PDSO 4412 | Pediatric Dentistry 3 | 2 |
| PDSO 4422 | Community Dentistry Externship | 4 |

SECTION 5.1 General Dentistry Course Descriptions

DENT 1202 Early Clinical Experience Cr. Hrs. 3

A series of lectures and clinical participation sessions designed to introduce the student to clinical dentistry and the relevance of basic science courses in the dental curriculum. May not be held with DENT 1010. Course evaluated on a pass/fail basis.

DENT 1210 Dental Practice Management 1 Cr. Hrs. 1

This course is an introduction to the Dental Practice Management curriculum which is distributed throughout the four year program. It comprises the modules on the Essentials of Effective Leadership and Strategic Leadership; Managing the Workplace and Conflict Resolution; Essentials of Interpersonal Communication Skills; and Team Building.

DENT 2202 Introduction to Comprehensive Care Cr. Hrs. 4

This course is an introduction to an integrated, patient-centered program with patient needs as the primary focus. The course introduces students to clinical protocol and patient record documentation and communication. Students receive experience in comprehensive treatment planning as well as basic treatments in periodontics, operative dentistry, and pain control. Course evaluated on a pass/fail basis. May not be held with DENT 2430.

DENT 3210 Dental Practice Management 3 Cr. Hrs. 1

This course is the third in a series of Dental Practice Management courses distributed throughout the four-year program. It comprises the modules on managerial decision-making and negotiations; operations management; self-assessment in practice; and effective management of patient and employees.

DENT 4202 Interdisciplinary Patient Centered Care Case Studies Cr. Hrs. 2

(Formerly DENT 4020) Lectures and development of portfolio case designed to enable the student to obtain, organize and critically evaluate information in order to facilitate treatment planning. May not be held with DENT 4020.

DENT 4210 Dental Practice Management 4 Cr. Hrs. 2

(Formerly RSTD 4170) The management, evaluation, economics, organization, design, location, selection and marketing of a dental practice are covered by lectures and seminars. In addition, ethical considerations of dental practice, the options available to new dental graduates and the role of professional associations are discussed. May not be held with RSTD 4170.

DENT 4222 General Practice Dentistry Cr. Hrs. 10

This course is designed to consolidate the theoretical and clinical building blocks of all previous dental courses into the development of a comprehensive dental care methodology. Clinical instruction and experience will facilitate the senior dental students in developing effective patient management tools and advance their technical skills to the level of a novice general dentist. May not be held with the former DENT 4030.

DENT 4232 General Practice Seminars Cr. Hrs. 2

Topics relating to General Practice Dentistry are reviewed and reinforced in preparation for clinical practice and National Board Examinations. This course supports the General Practice Dentistry (DENT 4222) program with procedure reviews as needed. May not be held with DENT 4030.

DENT 4240 Dental Jurisprudence Cr. Hrs. 1

(Formerly RSTD 4160) This course provides an overview of the Canadian legal system. It defines and discusses legal concepts relevant to dentistry including issues in negligence, contracts, confidentiality, business and human rights. Identifying a dentist's legal responsibilities to patients, peers, employees, profession and society will underlie the entire course. May not be held with RSTD 4160.

SECTION 5.2 Dental Diagnostic and Surgical Sciences Course Descriptions

DDSS 1100 Periodontology 1 Cr. Hrs. 1

A pre-clinical laboratory and didactic course designed to (1) introduce students to periodontal examination procedures and to basic non-surgical periodontal therapy, (2) develop skills related to periodontal instrumentation and treatment, and (3) present fundamental concepts of periodontal anatomy, physiology and microbiology in health and disease. May not be held with DDSS 1020.

DDSS 1110 Radiology 1 Cr. Hrs. 1

A series of lectures which introduces the student to: the elementary principles of dental radiology; radiation physics, radiation biology, imaging techniques, x-ray equipment and radiation protection. May not be held with DDSS 1140.

DDSS 2100 Periodontology 2 Cr. Hrs. 2

A basic didactic course with emphasis on (1) diagnosis, classification, treatment and prevention of different forms of plaque-induced periodontal diseases, (2) oral-systemic disease associations; (3) non-plaque induced gingival alterations, (4) periodontal treatment of medically compromised patients. May not be held with DDSS 2120.

DDSS 2110 Radiology 2 Cr. Hrs. 1

A series of lectures in the theoretical and practical principles of radiographic interpretation of common oral pathologic conditions as well as selected examples of pathologic conditions exhibiting important radiographic principles. May not be held with DDSS 2180.

DDSS 2122 Oral Pathology Cr. Hrs. 5

A series of lectures emphasizing recognition, description, etiopathogenesis, clinical and/ or radiographic features, biologic behaviour, treatment and/or management of oral and paraoral conditions. May not be held with DDSS 2010.

DDSS 2130 Pain and Anxiety Control 1 Cr. Hrs. 1

A series of lectures to introduce the student to: local anaesthetics, local anaesthesia techniques, avoidance and management of complications and selection of appropriate drugs and techniques. May not be held with DDSS 2020.

DDSS 3102 Periodontology 3 Cr. Hrs. 3

This combined lecture and clinical course is designed to provide experience which will allow students to apply previous didactic learning to the clinical environment in the field of Periodontology. The classroom sessions provide description and discussion of periodontal treatment modalities and techniques, including non-surgical, surgical intervention, and implant treatment. Inter-relationships with other clinical disciplines also receive considerable attention. May not be held with the former DDSS 3220.

DDSS 3112 Oral Diagnosis and Radiology 1 Cr. Hrs. 2

This course includes a lecture component covering history-taking, clinical examination, diagnosis and treatment of soft and hard tissue lesions, emergency treatment, dental treatment of patients with systemic disease, and clinical experience. May not be held with DDSS 3200.

DDSS 3120 Pain and Anxiety Control 2 Cr. Hrs. 1

This course consists of lectures/seminars and clinical experience in: physiology of pain psychology of anxiety, management of medical emergencies, parenteral injections, and therapeutics of the various modalities of pain and anxiety control. May not be held with DDSS 3230.

DDSS 3132 ORAL AND MAXILL SURGERY 1 Cr. Hrs. 2

This course consists of lectures, seminars and clinics, covering all aspects of oral and maxillofacial surgery with an emphasis on those procedures performed by the general practitioner. May not be held with DDSS 3210.

DDSS 3142 Medicine Cr. Hrs. 2

Lectures or seminars describing the basic mechanisms, symptoms, diagnosis and management of various disease processes included in internal medicine and their dental correlations. May not be held with DDSS 3030.

DDSS 3152 Temporomandibular Disorders and Orofacial Pain Cr. Hrs. 2

The course reviews the foundational clinical sciences in pain biology, and function of the masticatory muscles and TMJ. It discusses the contemporary classification, diagnosis and management of Temporomandibular disorders and related orofacial pain disorders. May not be held with DDSS 3190.

DDSS 3162 Pharmacology and Therapeutics Cr. Hrs. 3

A discussion of the basic pharmacodynamics, pharmacokinetics, mechanisms of actions, doses and adverse effects of therapeutic agents prescribed and administered by dentists. This will include antibiotics, analgesics, anxiolytics, anti-viral and anti-fungal agents. Subsequently drugs used in the management of systemic diseases will be discussed including mechanisms of actions and adverse effects, with particular focus on those which are dentally-related. May not be held with the former ORLB 3320 or the former ORLB 3060 or the former ORLB 3310.

DDSS 4112 Oral Diagnosis and Radiology 2 Cr. Hrs. 2

(Formerly DDSS 4200) This clinical course is designed to give the student clinical experience with: treatment planning, diagnostic techniques, differential diagnosis, emergency treatment and non-surgical management related to oral pathologic conditions. May not be held with DDSS 4200.

DDSS 4122 Oral & Maxillofacial Surgery 2 Cr. Hrs. 1

(Formerly DDSS 4210) This course consists of lectures, seminars and clinics covering all aspects of oral and maxillofacial surgery with an emphasis on those procedures performed by the general practitioner. May not be held with DDSS 4210.

DDSS 4150 Hospital Dentistry Cr. Hrs. 1

(Formerly DDSS 4130) This course is designed to provide the student with a familiarization with hospital protocol, reinforcement of understanding in medicine, surgery, pharmacology and therapeutics, the dental treatment of medically compromised patients at the Health Sciences Centre, and handicapped patients in other institutional settings. May not be held with DDSS 4130. Course evaluated on a pass/fail basis.

SECTION 5.3 Oral Biology Course Descriptions

ORLB 1302 Cell and Tissue Biology Cr. Hrs. 4

Structure, function and chemical composition of eucaryotic cells and oral bacteria will be studied. Taste signaling, diseases, and molecular interactions within and between cells and the immune system will be described in detail. May not be held with ORLB 1050.

ORLB 1310 Head, Neck and Nervous System, Part 1 Cr. Hrs. 4

Gross anatomy of the head and neck are described and observed by regional dissection. Overviews of the nervous system and surface anatomy of the mouth are included. May not be held with ORLB 1060.

ORLB 1320 Head, Neck and Nervous System, Part 2 Cr. Hrs. 3

An introduction to the structure and function of the central and peripheral nervous systems and associated structures, the neurophysiology and the stomatognathic system, pain and analgesics. May not be held with ORLB 1070.

ORLB 1330 Human Growth and Development Cr. Hrs. 3

Human development from the origin of the reproductive cells through fertilization, conception, embryonic/fetal development, birth, growth and aging. Particular emphasis is given to development and growth of structures of the head and neck. May not be held with ORLB 1080.

ORLB 1340 Oral Tissues, Structure and Function Cr. Hrs. 3

This course is designed to present the normal morphology, developmental biology, biochemical structure, metabolism and functions of the dentition and para oral tissues, cartilage, bone and exocrine glands of the head and neck. Structural functional aspects of oral anatomy, biochemistry/molecular biology and physiology will be included. May not be held with ORLB 1090.

ORLB 2300 Pathology and Microbiology 1 Cr. Hrs. 1

Study of the basic mechanisms of microbial pathogenicity and general pathology as they relate to dentistry and dental treatment. Includes the pathogenesis of bacterial, viral and fungal infections and the aetiology of neoplastic, inflammatory and metabolic diseases. May not be held with ORLB 2100.

ORLB 2312 Structure and Function of Major Organ Systems Cr. Hrs. 4

This course emphasizes the basic structure at both organ and cellular levels of a number of organ systems and an understanding of their role in total body function. May not be held with ORLB 2070.

ORLB 2320 Cariology and Plaque Associated Diseases Cr. Hrs. 3

A study of the various dietary, host and microbial factors in the etiology of dental caries and periodontal disease, and a discussion of the various methods of plaque control. May not be held with the former ORLB 2090.

ORLB 2330 Nutrition in Dentistry Cr. Hrs. 2

An examination of the fundamentals of nutrition and the relationship between nutrition and health within the context of the health professions. The focus is on nutritional strategies used to promote health and in the treatment of common health conditions. The primarily on-line content is followed up with a combination of oral health specific patient/clinical

exercises for Dentistry students. May not be held with ORLB 2150, HYG 2370, HNSC 2170, or PHRM 2420.

ORLB 3300 Pathology and Microbiology 2 Cr. Hrs. 1

A study of selected infectious diseases and the application of general diagnostic pathology in dental practice. May not be held with ORLB 3020.

SECTION 5.4 Preventive Dental Science Course Descriptions

PDS 2410 Pediatric Dentistry- 1 Cr. Hrs. 3

A series of lectures and laboratories to introduce the student to: the fundamental principles of dental growth and development of children, introduction to operative dentistry and preventative techniques commonly used in dentistry for children. May not be held with PDS 2070.

PDS 2420 Dental Public Health Cr. Hrs. 1

This course introduces students to healthcare concepts from a systems-level viewpoint. Topics include the methods used in Dental Public Health, history and structure of Canadian Medicare, a parallel view of Canadian dental care, social determinants of health, health promotion, measurement methods for dental health and disease, epidemiology of dental disease in Canada, and access to dental care. May not be held with the former PDS 2130.

PDS 2430 Introduction to Orthodontics Cr. Hrs. 1

This course provides students with an introduction to growth and development, orthodontic records, diagnosis of malocclusion, modalities of treatment using removable appliances, basic biomechanics and simple wire bending. May not be held with the former PDS 1020 or the former PDS 1400 or the former PDS 2020 or the former PDS 2400.

PDS 3402 Orthodontics 3 Cr. Hrs. 2

A series of seminars covering the analysis, diagnosis, treatment planning, and mechanotherapy using records of selected cases. The clinical component consists of the diagnosis and treatment planning for individuals seeking orthodontic treatment. The clinical experience includes exposure to removable and fixed mechanotherapy, screening of patients seeking orthodontic care and follow-up of retention of completed cases. May not be held with PDS 3040.

PDS 3404 Dental Public Health 2 Cr. Hrs. 3

This course uses on-line self-study, classroom discussion, a formal debate, and clinical externships to introduce students to historical and contemporary public health topics. Topics covered include the history of fluoride use to prevent dental caries, the theory and methods for oral disease prevention in populations, the principles and methods for evidence-based practice, and geriatric and sports dentistry. May not be held with the former PDS 3140 or the former PDS 3422.

PDS 3412 Pediatric Dentistry 2 Cr. Hrs. 3

A series of seminars and clinics to give the student a basic understanding and some clinical experience with: clinical procedures, emergency treatment, psychological management, preventative medical considerations and the provision of total dental care to pediatric patients. May not be held with PDS 3050.

PDS 4402 Orthodontics 4 Cr. Hrs. 2

(Formerly PDS 4060) This course consists of seminars on special topics related to the provision of orthodontic therapy. In addition, the clinical component including the diagnosis and treatment planning for individuals seeking orthodontic treatment as well as the continuation of treatment commenced in PDS 3040. Clinical seminars cover the analysis, diagnosis, treatment planning, mechanotherapy and post-treatment evaluation of previously treated cases. May not be held with PDS 4060.

PDS 4412 Pediatric Dentistry 3 Cr. Hrs. 2

(Formerly PDS 4050) This course consists of clinical experience including exposure to common pediatric dentistry problems, caries preventive and control procedures, routine conservative procedures and the dental treatment of children in community-based clinics. May not be held with PDS 4050.

PDS 4422 Community Dentistry Externship Cr. Hrs. 4

The clinical portion of the program is centered in community outreach clinics in the City of Winnipeg. The students spend time at a pediatric community clinic, a low income community clinic, and at geriatric clinic. The clinics serve the elderly, children, Indigenous, or patients from low income families. The didactic portion of the program focuses mainly on geriatric dentistry. May not be held with the former PDS 4080. Course evaluated on a pass/fail basis.

SECTION 5.5 Restorative Dentistry Course Descriptions

RST 1500 Dental Materials 1 Cr. Hrs. 2

This course introduces the materials commonly used in dental practice. Composition, chemistry, properties, manipulation and manipulative variables are covered by lecture, laboratory exercises and demonstrations. May not be held with RST 1070.

RST 1512 Operative Dentistry 1 Cr. Hrs. 6

A lecture and laboratory course introducing the fundamentals of operative dentistry. Lectures and laboratory exercises in the principles of cavity preparation, utilization of rotary and hand instruments and manipulation, placement and finishing of restorative materials are presented. May not be held with RST 1100.

RST 1520 Dental Anatomy Cr. Hrs. 3

A lecture and laboratory/seminar course introducing dental terminology, tooth identification, dental morphology and concepts of dental anatomy as it relates to the intraoral functional relationship. May not be held with RST 1110.

RST 1530 Occlusion Cr. Hrs. 2

A lecture and laboratory course designed to introduce the student to the concepts of dental occlusion and the relationship between the anatomy of the teeth and the TMJ. May not be held with RST 1110.

RST 1550 Introduction to Dentistry Cr. Hrs. 2

A series of lectures and seminars which introduce the student to the profession, its structure and governance. Professionalism, dental ethics and communication skills are also introduced. May not be held with RST 1120 or RST 1540. Course evaluated on a pass/fail basis.

RST 2502 Dental Materials-2 Cr. Hrs. 2

This course develops a scientific basis for the selection, application, manipulation and clinical performance of dental materials. The relationship between the properties of a material and its manipulation, application and clinical behaviour is developed. May not be held with RST 2020.

RST 2510 Operative Dentistry-2 Cr. Hrs. 3

A lecture and laboratory course presenting modern and advanced techniques in tooth restoration. Composite resins, adhesion to tooth structure, esthetic restorations and protection of tooth vitality. Introduction to clinical treatment modalities and treatment priorities. May not be held with RST 2050.

RST 2520 Endodontology-1 Cr. Hrs. 2

Introduction to root canal therapy as a clinical practice, pulp and periapical pathology. The majority of the teaching is directed at the understanding

and actual performance of practical endodontic techniques, performed in the laboratory setting on mannequins using extracted human teeth. May not be held with RSTD 2060.

RSTD 2532 Fixed Prosthodontics 1 Cr. Hrs. 6

This course is designed to review the fundamentals of fixed prosthodontic restorative techniques in conjunction with laboratory exercises involving tooth preparation, waxing, and fabrication of metal and ceramic restorations. Both conventional laboratory techniques and contemporary digital technology are introduced to closely reflect contemporary dental practice. May not be held with the former RSTD 2140.

RSTD 2540 Removable Partial Denture Prosthodontics Cr. Hrs. 3

The didactic portion of this course presents the principles for the treatment of partially edentulous patients. The procedures and techniques founded on the basic principles make up the laboratory exposure. May not be held with RSTD 2220.

RSTD 2552 Complete Denture Prosthodontics Cr. Hrs. 4

The didactic portion of this course presents the principles for the treatment of edentulous patients. Emphasis is placed on techniques of treatment in the laboratory component. May not be held with RSTD 2230.

RSTD 3512 Operative Dentistry 3 Cr. Hrs. 5

A lecture and clinical course emphasizing diagnosis, treatment planning and the application of fundamental principles of operative and esthetic dentistry. Lectures and clinical treatments dealing with current restorative materials and techniques. My not be held with RSTD 3020.

RSTD 3522 Endodontology 2 Cr. Hrs. 3

This course emphasizes the rationale and biologic basis for the practical technique previously taught. Techniques are discussed in greater detail and are applied to treatment of patients. The second part of the course deals with pulp biology and periapical pathology to prepare the student for understanding the rationale behind pulpal protection, prevention and treatment of pulpal disease. Laboratory exercises are performed on more complex root canal systems in preparation for General Practice Clinic. May not be held with RSTD 3050.

RSTD 3532 Fixed Prosthodontics 2 Cr. Hrs. 5

An introduction to the clinical practice of fixed prosthodontic techniques. An emphasis is placed on diagnosis and treatment-planning. Clinical exposure is supplemented by lecture materials. May not be held with RSTD 3040.

RSTD 3542 Complete and Removable Partial Denture Prosthodontics Cr. Hrs. 3

This course consists of a series of lectures and clinics. Theories of applied prosthodontics are discussed and applications of this knowledge are made concurrently through the clinical treatment of patients. May not be held with RSTD 3090.

School of Dental Hygiene

Director: Mary Bertone

Campus Address/General Office: D212 Dental Building, Bannatyne Campus

Email Address: dent_hygiene@umanitoba.ca

Telephone: (204) 789 3683

Fax: (204) 789 3948

Website: umanitoba.ca/faculties/dentalhygiene

Academic Staff: Please refer to the School website:

umanitoba.ca/faculties/dentalhygiene

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SECTION 1: Degree Programs Offered

1.1. Programs

| Program/Degree | Years to Complete | Total Credit Hours |
|--|---|--------------------|
| Diploma in Dental Hygiene | Minimum time to graduation: Three years via Direct Entry or University 1 (or satisfaction of prerequisites), plus two years. | 101 |
| Bachelor of Science in Dental Hygiene, Degree Completion Program | Minimum time to graduation: Dependent upon prior education (i.e. completion of a pre-professional year [Univ 1] prior to entry into the Diploma in Dental Hygiene program). Upon admission to the B.Sc.D.H. program part-time students would be expected to complete the program within two to three (2-3) years. | 120* |

* See [section 4.2](#) for details on how this credit hour requirement is satisfied.

1.2 The Profession of Dental Hygiene

Dental hygiene is a self-regulated health service profession concerned primarily with the prevention of oral disease and the promotion of optimum oral health. As a licensed professional, the dental hygienist's scope of practice is regulated by provincial legislation. The dental hygiene process of care consists of five components: assessment, dental hygiene diagnosis, planning, implementation, and evaluation. Current practice settings include: Private dental practice, community health centres, institutions (e.g., hospitals, long-term care facilities), primary health care centres, home care and other outreach programs, educational institutions (e.g., universities, community colleges), the military, research, and industry. Dental hygienists acquire competence through instruction in basic sciences, oral health sciences, the humanities and clinical practice. Through more than 600 hours of a competency-based clinical curriculum, students are prepared to meet the needs of a broad range of population groups.

The School of Dental Hygiene Mission Statement: In a dynamic environment of excellence and progressive learning, the University of Manitoba, School of Dental Hygiene prepares future dental hygienists to enhance the health and wellbeing of the public through oral health promotion, disease prevention and therapeutic means; and to be active members of the global health care community.

Practice Requirements

After successful completion of the National Dental Hygiene Certification Board Examination, in Manitoba, graduates must apply to the College of Dental Hygienists of Manitoba for a licence to practice as a dental hygienist. Dental hygienists must fulfil the requirements of the respective provincial regulatory authorities licensing bodies. The minimum educational credential for licensure in the province of Manitoba is the Diploma in Dental Hygiene. Licensed dental hygienists may continue their education by completing a Bachelor of Science Degree in Dental Hygiene.

Note: Students admitted to the School of Dental Hygiene must register annually with the College of Dental Hygienists of Manitoba. Further information regarding student registration requirements can be found in Section 3: Faculty Academic Regulations (section 3.1.b).

SECTION 2: Admission Requirements

2.1 Diploma in Dental Hygiene

The following is a summary of admission requirements. All admission requirements, as well as application deadline dates and forms, are included in an applicant information bulletin that is available from the Admissions Office, Enrolment Services, 424 University Centre; this information is also posted on the university's website.

2.1.1 Direct Entry

General Direct Entry/University of Manitoba Admission Requirements

Manitoba high school graduation, with five full credits at the Grade 12 level, in courses designated S (Specialized), G (General), or U (Dual Credit – University), with a minimum of three of these credits in S or U courses.

Specific Requirements for the School of Dental Hygiene

General Requirements as above, plus a minimum 85% average over the following, with no less than 60% in each course:

- English 40S
- TWO of Mathematics 40S (either Pre-Calculus, recommended, or Applied), Biology 40S or Chemistry 40S*

* Although not required for admission, students must complete Mathematics 40S (Applied or Pre-Calculus), Biology 40S and Chemistry 40S in order to register for first year required courses for Dental Hygiene.

Notes: Candidates must meet the specific subject requirements, minimum grades, average or other requirements as listed for the program. Should demand exceed available positions, higher averages may be required to be competitive (higher than 85%). Only Canadian Citizens and Permanent Residents will be considered for admission.

Selection criteria: 100 per cent based on academic standing.

2.1.2 Advanced Entry Applicants

The following is a summary of the admission requirements for Advanced Entry. Applicants to this category must successfully complete the following courses prior to application. Course are normally completed within University 1, however, equivalent academic courses completed at recognized universities elsewhere will be considered.

- ENGL 1400 or ENGL 1340
- CHEM 1300 and CHEM 1310 or CHEM 1320
- PSYC 1200
- BIOL 1410 and BIOL 1412
- STAT 1000
- 6 credit hours of electives (Sociology is strongly recommended) for a total of 30 credit hours.

Other Requirements

Minimum GPA for consideration: 3.00 with no grade less than C, with the exception of English which requires the minimum grade of C+. Admission is competitive.

Selection criteria: 100 per cent based on academic standing for the Regular Applicant Category. An interview, biographical sketch and letters of reference are considered within the Special Applicant Category. Preference will be given to Manitobans in the Special Applicant Category (includes the Canadian Indigenous/Aboriginal Peoples applicant category) and on the alternate list.

2.2 Bachelor of Science in Dental Hygiene, Degree Completion Program

The program will be available to dental hygiene diploma graduates of the University of Manitoba or other accredited dental hygiene educational institutions wishing to complete requirements for the baccalaureate degree on a full-time or part-time basis. Transfer of credit for courses completed at

other institutions will be possible through appropriate University procedures. The School will evaluate credits from other institutions on an individual basis. The following is a summary of the admission requirements. All admission requirements, as well as application deadline dates and forms, are included in an applicant information bulletin that is available from the [Admissions Office, Enrolment Services](#), 424 University Centre; this information is also posted on the university's website.

Admission to the degree completion program requires of students that:

- They must possess a Diploma in Dental Hygiene from either a university or community college program accredited by either the Commission on Dental Accreditation of Canada or the American Dental Association's Commission on Dental Accreditation.
- They must possess the National Dental Hygiene Certification Board (NDHCB) Certificate
- They must hold current licensure to practice dental hygiene in Canada and be eligible for licensure to practice in Manitoba.
- They must possess all the pre-requisite course requirements prior to admission (see prerequisite requirements, options A & B below)

| Prerequisite Requirements | | |
|---|--|-----------------|
| Option A | | |
| This option is for those graduate of accredited dental hygiene programs who completed a proscribed pre-professional year of university studies prior to entry into their dental hygiene program | | |
| Required Prerequisites (minimum C grade in each course) | Research methods (REHB 2450; PSYC 2250; PSYC 2260) or equivalent | 3 credit hours |
| | Basic Statistical Analysis (STAT 1000) or equivalent | 3 credit hours |
| | Total | 6 credit hours |
| Option B | | |
| This option is for dental hygienists who are graduates of accredited two year programs which did not require a pre-professional year of university studies | | |
| Required Prerequisites (minimum C grade in each course) | Research Methods (REHB 2450) or equivalent | 3 credit hours |
| | Basic Statistical Analysis (STAT 1000) or equivalent | 3 credit hours |
| | Free choice electives | 15 credit hours |
| | TOTAL | 21 credit hours |

The required minimum grade for specified prerequisite courses including electives is a C. There is a **required minimum overall grade point average of 3.0 (B) in the candidates Diploma in Dental Hygiene or Associated Degree Program.**

Selection is competitive. In the event of a surplus number of applicants, selection will be based on the grade point average (GPA) over the most recently completed 60 credit hours of study completed at the accredited post-secondary level.

SECTION 3: Faculty Academic Regulations

All students are asked to note that some academic policies and regulations are under review and are subject to change. Please check the Web Calendar at umanitoba.ca for updated information.

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the School of Dental Hygiene has regulations and requirements, published below, that apply specifically to its students.

Direct Entry students are to be aware that as they will be registered in courses outside of the School of Dental Hygiene (non HYG courses), they may be subject to the rules and regulations of the faculty/school in which those courses reside (primarily the Faculties of Arts and Science). Direct Entry students are encouraged to become familiar to the rules and regulations of these faculties/schools. Please contact the School of Dental Hygiene for further information.

3.1.1 Essential Skills and Abilities for Admission, Promotion and Graduation in Dental Hygiene Diploma Program

As an accredited Canadian dental hygiene program, the Dr. Gerald Niznick College of Dentistry, School of Dental Hygiene at the University of Manitoba is responsible for providing a program of study that ensures graduates have the necessary qualifications (academic knowledge, clinical skills, and professional behaviors and attitudes) to enter the regulated profession of Dental Hygiene in Canada. Becoming and being a dental hygienist requires a wide range of highly specialized skills and abilities. Some of these are taught in dental hygiene school, while others must be brought by the individual as an innate set of essential skills and abilities. The criteria for becoming registered/ licensed as a dental hygienist in Canada requires a level of motor skills and other attributes that are not necessary in other professional occupations. Similarly, the ability to provide reasonable accommodation for special learning needs in dental hygiene may not be the same as it is for other academic programs.

It is important to note that an offer of admission to the Dr. Gerald Niznick College of Dentistry, School of Dental Hygiene is not evidence that the dental hygiene program has verified that an applicant has the prerequisite skills and abilities for success in the program or future professional licensure. However, these skills and abilities are essential if students are to be successful in achieving the competency standards of the profession.

For progression in, and graduation, from the dental hygiene program, all students must conduct themselves in a professional manner, and must have the Essential Skills and Abilities (Technical Standards) discussed under the following five broad areas: Observation/perception; Communication; Motor/tactile function; Cognition; Emotional functioning.

All applicants to the dental hygiene diploma program of the Dr. Gerald Niznick College of Dentistry School of Dental Hygiene are expected to review the *Essential Skills and Abilities for Admission, Promotion and Graduation in Dental Hygiene Diploma Program* document to assess their ability to meet these standards; all applicants offered admission will be required to acknowledge such review and assessment.

Any candidate for the diploma in dental hygiene program who cannot demonstrate the required skills and abilities throughout their course of study may be requested to withdraw from the program.

Detailed information for the above policy can be found at:

http://umanitoba.ca/healthsciences/dentistry/student_resources/policies.html

3.1.2 College of Dental Hygienists of Manitoba (CDHM)

The College of Dental Hygienists of Manitoba (CDHM) is a separate entity from the University of Manitoba. Students admitted into the dental hygiene degree program must be registered with CDHM in order to practice/study as a dental hygiene student in Manitoba. Re-registration is required each academic year.

Students will receive application information during the first week of classes and must complete and return the application to CDHM prior to September 15th of each year. Note that evidence of completion of a CPR – Level C course in the last 12 months is required for the application process.

Failure to register with CDHM will result in being restricted from participating in classes until registration is complete.

For further information please contact the CDHM at 204-219-2678 or cdhm@cdhm.info.

3.1.3 Dr. Gerald Niznick College Of Dentistry/School Of Dental Hygiene Professional Unsuitability By-Law

Students must at all times demonstrate suitability for the dental/dental hygiene profession. In this regard students are obligated to act with integrity and diligence in carrying out their professional responsibilities, and their behaviour and conduct in relation to others must be characterized by consideration, respect and good faith.

The Dr. Gerald Niznick College of Dentistry may require a student to withdraw from the College/School when the student has been found unsuited for the practices of dentistry or dental hygiene because the student has been found to have engaged in unprofessional behaviour. A student may be required to withdraw at any time throughout the academic year.

Grounds which may require withdrawal are: demonstrated behaviour which is exploitive, irresponsible, intentionally injurious or destructive to patients; and/or compromised professional judgment through self-interest and/or conflict of interest; and/or an acquired criminal conviction, either in Canada or any other jurisdiction, which is of such a nature as to place in question his/her fitness for the dental professions; and/or participation in any activity related to patient care or any activity related to the practice of the dental professions while under the influence of alcohol or drugs or while abusing prescription drugs; and/or engaging in behaviour or conduct that if engaged in by a practising dentist/dental hygienist would likely result in disciplinary action, including suspension or revocation of the license to practise, by the Manitoba Dental Association or the College of Dental Hygienists of Manitoba.

Detailed information for the above policy can be found at:

http://umanitoba.ca/healthsciences/dentistry/student_resources/policies.html

3.1.4 Criminal Record/Adult Abuse Registry/Child Abuse Registry

An adult criminal record, an adult abuse registry and a child abuse registry self-declaration will be required of all applicants at the time of application. A formal Adult Criminal Record Check (including vulnerable sector screening), a formal Adult Abuse Registry Check *and a formal Child Abuse Registry Check* are required at the time of registration, and annually thereafter keeping in accordance with existing policies of other health, education and social service programs at the University of Manitoba.

Direct Entry students will be required to provide these documents upon admission to the program and prior to October 1 of that year.

Failure to provide these documents may impact on registration and a student's ability to progress in the Dental Hygiene program.

*The School will provide information on the application process (through the School).

3.1.5 Immunization and Bloodborne Diseases Policy

The Dr. Gerald Niznick College of Dentistry and School of Dental Hygiene maintain comprehensive immunization requirements to protect the wellbeing of our students and the health of patients and communities with whom they will have contact during their curriculum.

All students enrolled in the School of Dental Hygiene must have immunity demonstrated against the following diseases: tetanus, diphtheria, pertussis, polio, measles, mumps, rubella, varicella (chickenpox), and hepatitis B. Students need to undergo testing for tuberculosis (TB) infection, unless the student already has a past history of TB infection or TB disease

documented. Students must receive yearly influenza vaccinations. Students who cannot receive certain immunizations due to allergies or pregnancy must provide a physician's certificate stating this.

Before the first day of classes, all students must complete and return the University of Manitoba Immunization Record Form (Package A), as provided by the School of Dental Hygiene/Dentistry Student Services Office. Please note that any supplemental immunization documentation provided to support this document and/or any future submissions of immunization materials must be signed by a physician or nurse. All students are responsible for updating their immunizations as needed.

Students **will not be permitted to attend clinics** until all immunization requirements are satisfied.

For the collection and management of student immunization records, the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene partner with the Faculty of Health Science Immune Program. The Director of Immunizations and the Program Assistant collect and organize immunization data as well as provide immunization services to students at the Bannatyne campus.

All students are expected to comply with the requirements of the Rady Faculty of Health Science Immune Program which may change from time to time due to the immunization requirements of external health care facilities where students will be expected to attend as a part of their dental/dental hygiene program.

The Dr. Gerald Niznick College of Dentistry and School of Dental Hygiene are compliant with the Association of Canadian Faculties of Dentistry (ACFD) *Guidelines for Infectious Disease and Healthcare Workers* document and its recommendations regarding barring students from clinical activities who do not meet these guidelines. Further information on the ACFD guidelines can be found at the following web-site:

<http://acfd.ca/about-acfd/publications/acfd-guidelines-for-infectious-diseases-and-health-care-workers/>

Prospective students should refer to and be familiar with the Dr. Gerald Niznick College of Dentistry's (School of Dental Hygiene) Infectious Diseases Policy Statement on the College/School website http://umanitoba.ca/healthsciences/dentistry/dentalhygiene/future/dh_pr_eReg.html. Any student applicant with an infectious disease should either delay their application to the program or disclose this information upon being accepted into the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene. Should a student who has been accepted into the program but has been found to be unable to meet the policy requirements, every effort will be made to accommodate the student until the guidelines are met. In some cases, it may be necessary to suspend or terminate the student from the program if it is shown that the policy guidelines are unable to be met.

Direct Entry students are responsible to have all immunization requirements in place prior to their entrance into their second year (first clinical year) of the program. Further information will be provided upon admission to the School.

3.1.6 CPR Certification

Accepted candidates will be required to show proof of CPR (Health Care Provider level) certification by September 15 of each year. This certification must be maintained on a yearly basis up to the date of graduation. CPR Certification levels accepted by the School of Dental Hygiene are:

Canadian Red Cross: ACLS (Advanced Cardiovascular Life Support for Health Care Providers)

Heart & Stoke Association: BLS for HCP + AED

St. John Ambulance: Health Care Provider Level C and AED

Life Saving Society: CPR for Health Care Providers (HCP)

Direct Entry students will not need to provide this certification in year 1 of their program; they will be expected to complete this requirement by September 15th of their first clinical year.

3.1.7 PHIA

Students are required to maintain confidentiality of patient records and abide by PHIA (Personal Health Information Act) legislation which governs and controls the sharing of personal health information. Students will be required to attend a PHIA orientation and sign a pledge of confidentiality in their first clinical year of the program. This orientation includes content that satisfies PHIA requirements for student participation at external clinical sites under the direction of the Winnipeg Regional Health Authority (WRHA).

3.1.8 Sharing of Student Personal Information

Once admitted to the School of Dental Hygiene, University of Manitoba, students personal information is protected by FIPPA (Freedom of Information and the Protection of Privacy Act) legislation. However, prior to first registration, some personal information (name, e-mail, photo) is shared with external partners to facilitate student involvement. Please see further information below:

Student Licensure and Mentorship Program

To better administer Student Licensure, the School of Dental Hygiene provides the College of Dental Hygienists of Manitoba (CDHM) with a list of advanced entry and Year 2 direct entry students, which includes names and U of M e-mail addresses.

In addition, as a partnership between the School of Dental Hygiene and the CDHM, these same students are assigned a Mentor who is a member of the CDHM and a practicing Dental Hygienist within the community.

Vital Source Textbook Database

Most Dental Hygiene student's text books are accessible through an electronic textbook database called Vital Source. In order to provide all Dental Hygiene students with access to their text books, the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene will provide Vital Source with the names and e-mail (U of M) of all students for the purpose of authenticating users and providing access to their on-line content.

Manitoba Dental Students Association/Manitoba Dental Hygiene Students Association

Students in the Dr. Gerald Niznick College of Dentistry/School of Dental Hygiene become members of and are represented by the Manitoba Dental Students Association/Manitoba Dental Hygiene Students Association. These Associations provide student representation on College/School and University Committees as well as represent students on various external organizations (CDA/MDA/MDHA, etc.). The College of Dentistry/School of Dental Hygiene provides the names, e-mail (U of M) and photographs of all first year Dental and Dental Hygiene students with the respective student Associations for the purpose of facilitating student participation.

Student information will not be used or disclosed for other purposes, unless permitted by *The Freedom of Information and Protection of Privacy Act* (FIPPA). If you have any questions about the collection or use of your personal information, contact the Access & Privacy Office (tel. 204-474-9462), 233 Elizabeth Dafoe Library, University of Manitoba, Winnipeg, MB, R3T 2N2.

3.1.9 Instruments, Computer, Textbooks and Uniforms

Students entering the School of Dental Hygiene will be expected to own or purchase a PC laptop computer (the School only supports PC's given the software used in our clinical facilities) that is compliant with University computer standards (see Bookstore - Computers on Campus for annual listing) and Vital Source Technologies software requirements (see

www.vitalsource.com for details). The expenditure of a computer may range approximately from \$1000 to \$4000 within the first year of the program. The Vital Source Technologies cost is approximately \$2150 per year. These fees will be assessed annually on student accounts under "Electronic Textbook Fee".

Students are responsible for Dental Hygiene Clinical Instrument Fees which represent the costs of dental instruments and supplies required for clinical education. These fees will be assessed annually on student accounts under "Clinic Instrument Fee". These instruments and supplies are the property of students and are retained by students after graduation.

It is the students' responsibility to maintain the condition of their instruments and stay within allotted supply levels. Any damaged/lost instruments or excessive use of supplies may result in additional charges to students. Over the 2 years of the program, these fees will amount to approximately \$6,500.

The college is unable to provide refunds for Electronic Textbook or Dental Hygiene Clinical Instrument Fees and will not accept returns of any clinical instruments or other items, should a student leave the college for whatever reason and upon graduation.

*Direct entry students will not be expected to purchase a laptop computer, Vital Source Software, or be charged Dental Hygiene Clinical Instrument fees until the start of their second year of the program (first clinical year).

Please Note: Electronic Textbook Fees, Clinical Instrument fees and/or Clinical Instrument items are non-refundable.

3.1.10 Progression Rules/Promotions

Some of the following may not apply to Direct Entry students during their first year of the program, but will come into effect once they are registered in years two and three of the program (once registered in HYG courses as described in Section 4). Further clarification will be communicated to Direct Entry Students upon admission to the School of Dental Hygiene.

- Rules and Regulations - Direct Entry Year 1 – DH 1
 - The letter grade of "C" is the lowest acceptable level of performance per course in DH 1 (pre-professional year), with the exception of English, which is a C+, to progress further in the dental hygiene program.
 - Students admitted to the School via Direct Entry must complete the first year (DH 1) curriculum, including electives, within 2 years of admission. If students do not successfully complete the first year course requirements within this time frame, they will, except under special circumstances under the discretion of the Director of the School of Dental Hygiene, be required to withdraw from the program; this does not preclude these students from re-applying to the program via the advanced entry route.
 - Direct entry students must achieve a minimum term grade point average of 2.0 in all terms during the completion of their pre-professional program (DH 1).
- Rules and Regulations - Years DH 2 and DH 3
 - In years DH 2 and DH3 the lowest acceptable grade is a "D" if the course is being taken for the first time (see below for a minimum requirement of repeated courses).
 - A minimum sessional grade point average of 2.0 in years DH 2 and DH 3 of the program is required to qualify a student for standing in that year. A student in years DH 2 and DH 3 who fails to obtain a minimum sessional grade point average of 2.0 and who is not granted supplemental privileges will be considered to have failed the year.
 - Except by special permission of Dental College Council, no student in years DH 2 and DH 3 may repeat more than one year of the program, nor may any single year be repeated more than once. The work requirements of any repeated dental hygiene course year may be modified at the discretion of the Dental College Council. The passing

grade in each course of a repeated year in Dental Hygiene is “C”.

- A student in DH 2 or DH 3 who has obtained a grade of "F" in more than two subjects or who fails to obtain a sessional G.P.A. of 2.0 will be regarded as having failed the year and will be required to repeat the work of that year in a succeeding annual session.
- Attendance
 - Regular attendance is expected of all students in all School of Dental Hygiene courses. Students should make themselves familiar with School of Dental Hygiene attendance policies and should be aware that there may be academic consequences with not complying with these regulations. For details on these policies please see the University of Manitoba's Attendance Policy as listed in the on-line Calendar as well as individual HYG course outlines for specific course requirements.
 - Only under exceptional circumstances may students be granted approval for absences exceeding one day for reasons other than illness. Students must make such a request in advance from the Director of the School to obtain prior approval.
 - Students registered in the School of Dental Hygiene are expected to conform to any new requirements that may be adopted from year to year. Any student returning to resume studies after an interval away is expected to conform to any new requirements that have been adopted during their absence.

3.1.11 Examinations

Deferred Examinations A deferred examination is a privilege that may be granted to a student who is unexpectedly unable to write an examination as scheduled or a student who knows in advance that he or she is unable to write an examination at the scheduled time. Making a false or misleading claim may be considered an offence under the Student Discipline Bylaw. Penalties may range from a failed grade in the course to suspension or expulsion.

A dental hygiene student (DH 1, 2 and 3) who is unable to sit an examination because of illness or other affliction may file an application for a deferred examination with the Director of the School of Dental Hygiene. Application for deferral must normally be filed **within 48 hours of the missed examination, for students in DH 1**, and within seven days of the examination, **for students in DH 2 and DH 3**, and must be accompanied by a medical certificate or an otherwise appropriate document certifying the inability of the student to write the examination at the regular scheduled time, and, where possible, indicating the period of disability. Based on the overall application submission, the Director shall determine if the application is approved.

When an application for a deferred **HYGN** examination is approved, the Director, in consultation with the course coordinator concerned may:

- Permit a student to take a deferred examination in such a form as the Director/course coordinator may determine.
- Grant standing in a course without examination. In such cases a grade shall be assigned to the course on the basis of term work and assignments.

Supplemental Examinations A supplemental examination is an examination that may be offered as a privilege to a dental hygiene student who has failed a dental hygiene (HYGN) course or failed to achieve a satisfactory result. Such examinations are offered in order to grant the student an opportunity to rectify the inadequacy without repeating the course.

Supplemental examination privileges are permitted in the School of Dental Hygiene for all HYGN courses with the **exception** of those in which remediation/re-examination is not realistically feasible. Such privileges must be approved by Dental College Council. Students seeking supplemental privileges should contact the Director indicating her/his

request. Applications to write a supplemental examination must be accompanied by the paid fee before the supplemental examination can be written. The student will be notified in a letter from the Director's Office if she/he is granted the privilege and under what specific conditions.

A student in DH 2 and DH 3 who has failed in not more than two HYG courses at the end of the regular term, may, at the discretion of the Director and with approval from Dental College Council, be awarded the privilege of one or two supplemental examination(s). A student must maintain a minimum sessional (combined Fall and Winter terms) GPA of 2.0 in that year in order to be eligible for supplemental privileges.

The passing grade in supplemental examinations is “C” for each course.

A student who is granted supplemental privileges is obliged to sit the examination at the earliest opportunity. The student must contact the course coordinator within 7 days of the date the notification letter from the Director's Office to schedule a plan for remediation and a date to write their supplemental examination. Supplemental examinations must be held prior to the opening of the Fall academic session.

A student who has not successfully exercised supplemental privileges will be considered to have failed the year and may be required to repeat the entire year or a modified program as required by Dental College Council. If/when the condition is removed in that session, the student will be regarded as having completed the year to which the condition applied.

NOTE: DH I students (direct entry in pre-professional program) should note that supplemental examination privileges are not normally permitted within the courses in which they will be registered. Failure of any course/s in year DH 1 of the program (pre-professional year) will normally require the course/s to be repeated during the next available offering of the course. DH 1 students should be aware that this may impact the student's ability to progress in the dental hygiene program (see Section iii).

3.1.12 Honours and Awards

Dean's Honours: awarded to students in each year of the dental hygiene Diploma program who have achieved a minimum sessional (fall & winter term combined) G.P.A. of 3.8. In addition, only students registered for 80 per cent or more of the normal course load during a regular session are eligible for Honours Standing.

A student who fails in one or more subjects, or who fails the year at the regular final examination, is not eligible to obtain Honours Standing or to receive any awards for the work of that year.

A student repeating a year's work is not eligible to obtain Honours Standing or to receive any awards for the work of that year.

The following policy applies to the eligibility of part-time students for academic awards:

A student who is carrying less than 80 per cent of the normal course load for the year is only eligible for an award in the individual subjects taken by him/her.

A student who is repeating a course may not be eligible for an award in that subject.

3.1.13 Voluntary Withdrawal

Students intending to withdraw from a portion or all of their courses must report immediately in person or in writing to the Director's Office. Please note: Computer Software (Including Vital Source Technology software), Dental Hygiene Clinical Instrument fees and/or Clinical Instrument items are non-refundable. See also the chapter, on General Academic Regulations and Requirements.

Students who withdraw from the School of Dental Hygiene without notice will be considered to have terminated their connection with the school. If a subsequent application for registration is approved, they will be required to

conform to the rules and regulations, fee schedules, sequence of courses, etc., in effect at the time of such subsequent application.

In cases where a student is obliged to withdraw after the final date of withdrawal published in the *Calendar* because of ill health or other sufficient reasons, their cases will be considered on an individual basis by the Director of the School.

3.1.14 Required Withdrawal

Senate has approved by-laws granting the School of Dental Hygiene the authority to require a student to withdraw on the basis of professional unsuitability; such right may be exercised at any time throughout the academic year.

This right to require a student to withdraw prevails notwithstanding any other provisions in the academic regulations of the particular faculty or school regarding eligibility to proceed or repeat.

Full policy information can be found at:

http://umanitoba.ca/healthsciences/dentistry/student_resources/policies.html

3.1.15 E-Mail Accounts

All students are expected to have an e-mail account with the University of Manitoba and check it regularly. The School of Dental Hygiene does not support communications with its students through external e-mail addresses.

3.1.16 Registration exceptions

Direct Entry students should contact the School of Dental Hygiene for information on registration.

Upon receipt of initial (in year two; and annually thereafter) Criminal Record (including Vulnerable Sector Screening), Adult Abuse Registry Check and Child Abuse Registry Checks, the School of Dental Hygiene completes registration for all students in their courses (Years 2 and 3). Diploma students who have a failing grade/s registered against them and/or have other outstanding academic matters (i.e. deferred or supplemental examinations, modified program, etc.) in regards to the previous academic session will not be registered in the next ensuing academic session until all outstanding matters have been cleared. Students who fall into this category should contact the student advisor for further information. A student advisor is available in D113 Dental Building or by calling (204) 789-3484.

3.2 Bachelor of Science in Dental Hygiene, Degree Completion Program

3.2.1 Academic Progress

A minimum Degree Grade Point Average of 2.0 must be maintained in the Bachelor of Science in Dental Hygiene for clear standing. A grade of C is considered a passing grade for all courses applied towards degree requirements. Students who do not maintain a minimum GPA of 2.0 may be required to withdraw from the program.

3.2.2 Licensure

Students in the Bachelor of Science in Dental Hygiene program must maintain professional licensure during their registration at the School of Dental Hygiene. Students should also note that licensure with the College of Dental Hygienists' of Manitoba may be required for registration within certain core courses (example: teaching practicum) of the program. Students are responsible for all fees associated with the maintenance of current licensure as well as application for licensure within Manitoba as may be required.

3.2.3 Criminal Record/Adult Abuse Registry/Child Abuse Registry

An adult criminal record, an adult abuse registry and a child abuse registry self-declaration will be required of all applicants at the time of application. A formal Adult Criminal Record Check (including vulnerable sector screening), a formal Adult Abuse Registry Check and a formal Child Abuse Registry Check are required at the time of registration, and annually thereafter keeping in accordance with existing policies of other health, education and social service programs at the University of Manitoba.

3.2.4 Writing Skills

Once in the program, students who do not exhibit ability to communicate in writing may be required to seek remediation in writing skills.

3.2.5 Transfer of Credit

The School may consider University credits earned **outside** of dental hygiene diploma programs or earned as part of an **incomplete** degree for transfer credit. If a student earned credit for a required course in the baccalaureate program as part of a diploma in dental hygiene or as part of another degree, an alternative course must be submitted for consideration.

3.2.6 Residence Requirements

Baccalaureate Degree-Completion Program students are required to complete at least 30 credit hours of University of Manitoba courses of the total 120 credits for the degree, with the minimum grade of "C" in each course.

3.2.7 Clinic Attire

Students in the B.Sc.Dental Hygiene program must maintain appropriate clinic attire when participating in clinical activities. Students will be required to purchase clinic uniforms as specified at the time of registration.

3.2.8 Program Length/Registration

Students in the Bachelor of Science in Dental Hygiene, Degree Completion Program should note that after initial registration, the length of time to complete the B.Sc.D.H. program is variable dependent upon whether courses are taken full-time or part-time. Part-time students would be expected to complete the program within two to three (2-3) years. Students should be aware that the B.Sc.D.H. program tuition fee does not include tuition fees assessed against registration in courses administered outside of the Dental Hygiene Program (non HYGn courses). Further information on fees may be obtained from the University of Manitoba's web-site: umanitoba.ca

3.2.9 Voluntary Withdrawal

Students intending to withdraw from a portion or all of their courses must report immediately in person or in writing to the Director's Office. Please note that all program tuition fees for the Bachelor of Science in Dental Hygiene program are non-refundable. See the chapter, on General Academic Regulations and Requirements for further information on voluntary withdrawal.

Students who withdraw from the School of Dental Hygiene without notice will be considered to have terminated their connection with the school. If a subsequent application for registration is approved, they will be required to conform to the rules and regulations, fee schedules, sequence of courses, etc., in effect at the time of such subsequent application.

In cases where a student is obliged to withdraw after the final date of withdrawal published in the *Calendar* because of ill health or other sufficient reasons, their cases will be considered by the Director of the School.

3.2.10 E-Mail Accounts

All students are expected to have an e-mail account with the University of Manitoba and check it regularly. The School of Dental Hygiene does not support communications with its students through external e-mail addresses.

3.2.11 Registration exceptions

Bachelor of Science Students who will be taking courses outside of the School of Dental Hygiene will be required to follow registration regulations/restrictions governed by the faculty in which those courses reside. Normal course repeat rules and restrictions will apply. Students in the B.Sc. program will also be responsible to ensure that they have verified their initial access time for registration; consulted with an advisor and/or obtained required program approval for outside courses as necessary; checked for timetable updates for all external courses; registered and assessed their fees after registration in all courses. A student advisor is available in D113 Dental Building or by calling (204) 789-3484.

SECTION 4: Program and Graduation Requirements

4.1 Diploma in Dental Hygiene

For students admitted as of Spring 2012 and forward. Students admitted prior to 2012 should refer to the version of the University of Manitoba Undergraduate Calendar in effect on the date of their admission for clarification of program/graduation requirements. Further information may also be obtained from the School of Dental Hygiene.

First Year

| Course Number | Course Title | Credit Hours |
|--|---|--------------|
| (Direct Entry) | | |
| ENGL 1400* | Thematic Approaches to the study of Literature | 3 |
| * or ENGL 1340 | Introduction to Literary Analysis | |
| PSYC 1200 | Introduction to Psychology | 6 |
| BIOL 1410 and | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| STAT 1000 | Basic Statistical Analysis 1 | 6 |
| 6 credit hours of electives | Electives (Sociology is strongly recommended) | 3 |
| CHEM 1300 and | University 1 Chemistry: Structure and Modeling in Chemistry | 3 |
| CHEM 1310 | University 1 Chemistry: An Introduction to Physical Chemistry | 3 |
| Or | | |
| CHEM 1320 | Or | 3 |
| Second Year/First Clinical Year (Year 1 Advanced Entry) | University 1 Chemistry: An Introduction to Organic Chemistry | 30 |
| Total credit hours | | |

| Course No. | Course Title | Credit Hours |
|------------|--------------|--------------|
|------------|--------------|--------------|

| | | |
|---------------------------|---|-----------|
| HYGN 1232 | Oral and Dental Anatomy | 3 |
| HYGN 1234 | Preclinical Dental Hygiene | 2 |
| HYGN 1236 | Dental Hygiene Theory and Practice I | 4 |
| HYGN 1238 | Dental Hygiene Clinical Practice I | 3 |
| HYGN 1242 | Dental Hygiene Theory and Practice II | 4 |
| HYGN 1262 | Dental Radiology | 3 |
| HYGN 1270 | Biology of the Head and Neck | 3 |
| HYGN 1280 | Microbiology and Infectious Diseases | 3 |
| HYGN 1292 | Dental Hygiene Preclinical Restorative Techniques | 2 |
| HYGN 1320 | Dental Materials | 2 |
| HYGN 1340 | Communications | 2 |
| HYGN 1352 | Community Health I | 3 |
| HYGN 1360 | Periodontology I | 2 |
| Total credit hours | | 36 |

| Third Year/ Second Clinical Year | | Credit Hours |
|-------------------------------------|--|--------------|
| HYGN 2100 | Dental Hygiene Portfolio* | 2 |
| HYGN 2280 | Pharmacology | 2 |
| HYGN 2300 | Pathology | 3 |
| HYGN 2312 | Dental Hygiene Clinical Practice II | 4 |
| HYGN 2314 | Dental Hygiene Theory and Practice III | 4 |
| HYGN 2316 | Dental Hygiene Clinical Practice III | 4 |
| HYGN 2318 | Dental Hygiene Theory and Practice IV | 5 |
| HYGN 2340 | Periodontology II | 2 |
| HYGN 2350 | Biology of Oral Tissues | 2 |
| HYGN 2362 | Community Health II | 3 |
| HYGN 2370 | Nutrition in Dentistry | 2 |
| HYGN 2380 | Pain Management | 2 |
| Total credit hours | | 35 |

* Registration in HYGN 2100, Dental Hygiene Portfolio will also occur within the first clinical year of the Dental Hygiene program. However, no grade will be assigned and it will not be factored into GPA calculations.

4.2 Bachelor of Science in Dental Hygiene, Degree Completion Program

Accredited dental hygiene programs in Canada and the U.S. have been traditionally offered as either stand-alone two year programs with direct entry from high school, or as two-year programs requiring a pre-professional year of studies prior to admission into the professional

program. In order to provide access to a broad range of potential degree completion students, two options have been developed.

Option A. This option is for those graduates of accredited 3 year dental hygiene programs, or equivalent, or those who have completed a proscribed pre-professional year prior to entry into their dental hygiene program.

Dental hygienists from the University of Manitoba who graduated between 1993 and 2007 must complete 21 credit hours

Dental hygienists from the University of Manitoba who graduated after 2007 must complete 19 credit hours

Graduates of other (non-University of Manitoba) dental hygiene programs who completed a pre-professional year prior to entry into their dental hygiene program, may be granted up to 15 credit hours from the pre-professional year and 75 credit hours from the 2-year dental hygiene program towards their degree. These graduates will be required to complete 30 hours of University of Manitoba credits in order to complete the degree and satisfy the residency requirement.

Option B. Dental hygienists who are graduates of accredited two year programs without the pre-professional year, must complete the 21 credit hours as described below plus 24 credit hours of free-choice electives. This requirement applies to graduates from the University of Manitoba (prior to 1993) as well as other accredited two-year dental hygiene programs in North America with no pre-professional year. As in Option A, the residency requirement of 30 credit hours for those non-University of Manitoba graduates will be upheld.

University of Manitoba Graduates

Students with diplomas in dental hygiene from the University of Manitoba will complete 19 credit hours if they graduated after 2007 and 21 credit hours if they graduated between 1993 and 2007. Dental hygienists who graduated from the University before 1993 will complete 24 credit hours of electives in addition to 21 dental hygiene baccalaureate credit hours (total 45).

| Year of Graduation (U of M) | Pre-Professional Year | Total Dental Hygiene Program Credit Hours Granted | Option | Credit Hours for BScDH Completion | Total BScDH Credit Hours |
|-----------------------------|-----------------------|---|----------|-----------------------------------|--------------------------|
| After 2007 | Yes | 1 + 2 years or 3 years (30 + 71 = 101 Credit Hours) | Option A | 1 year (19 Credit Hours) | 120 credit hours |
| Between 1993 and 2007 | Yes | 1 + 2 Years (30 + 69 = 99 Credit Hours) | Option A | 1 year (21 credit hours) | 120 credit hours |
| Before 1993 | No | 2 Years 75 Credit Hours | Option B | 2 years (45 credit hours) | 120 credit hours |

Graduates of Other Accredited North American Dental Hygiene Programs

* Residency Requirement

| Pre-Professional Year | Total Dental Hygiene Program Credit Hours Granted | Option | Credit Hours for BScDH Completion | Total BScDH Credit Hours |
|-----------------------|--|----------|-----------------------------------|--------------------------|
| Yes | Pre-Prof. Year (accept 15 credit hours) + 2 years DH (75 Credit Hours) = 90 Cr. Hrs. | Option A | 1 year *(30 credit hours) | 120 credits hours |
| No | 2 Years 75 Credit Hours | Option B | 2 years *(45 credit hours) | 120 credit hours |

Degree Completion Curriculum

Dental Hygiene Core (Minimum 12)

Mandatory Courses (2)

- HYGN 2380 Pain Management (2)

Elective Courses

- HYGN 4412 Dental Hygiene Practice Management and Leadership (3)
- HYGN 4460 Community Health Independent Study (3)
- HYGN 4470 Community Health Independent Study 2 (3)
- HYGN 4492 Current Issues in Dental Hygiene (3)
- HYGN 4520 Advanced Independent Study (3)
- HYGN 4530 Teaching Practicum (3)
- HYGN 4540 Advanced Teaching Practicum (3)
- HYGN 4550 Advanced Independent Study II (3)

Potential Electives - Not part of the Core Program (up to 21 Cr. Hrs)

- HYGN 4500 Advanced Oral Pathology (UBC) (3)
- HYGN 4510 Microbiology & Immunology (3)
- HYGN 4472 Assessment & Treatment Planning for Advanced Periodontal Disease (3)

Courses approved as Potential Electives outside of the School of Dental Hygiene

- NURS 1260 Human Growth & Development (3)
- PHIL 1290 Critical Thinking (3)
- SOC 2490 Sociology of health & Illness (3)
- SOC 3540 Sociology of Health Care Systems (3)
- HNSC 1210 Nutrition for Health & Changing Lifestyles (3)
- PHIL 2740 Ethics & Biomedicine (3)

SECTION 5: Dental Hygiene Course Descriptions-1000 Level

HYGN 1232 Oral and Dental Anatomy Cr. Hrs. 3

This course consists of a self-study CD and laboratory work dealing with the normal development, morphology, structure, and functions of the dentition and related structures. Corequisites: HYGN 1234 and HYGN 1236.

HYGN 1234 Preclinical Dental Hygiene Cr. Hrs. 2

This introductory course teaches the necessary dental hygiene skills in laboratory and preclinical settings. Students are introduced to foundational assessment and implementation skills necessary to begin client care at the novice level. Corequisites: HYGN 1232 and HYGN 1236.

HYGN 1236 Dental Hygiene Theory and Practice 1 Cr. Hrs. 4

This introductory course provides the necessary foundational knowledge requisite for preclinical experience and early client care. It includes the theory and principles underlying the practice of dental hygiene based on the four phases of the Dental Hygiene Process of Care and the concept of Professionalism. Corequisites: HYGN 1232 and HYGN 1234.

HYGN 1238 Dental Hygiene Clinical Practice I Cr. Hrs. 3

The course focus is on the cognitive, psychomotor and affective knowledge and skills requisite to the dental hygiene process of care. It includes the principles underlying the practice of dental hygiene and facilitates the development of a self-directed and self-aware professional. Prerequisites: HYGN 1234 and HYGN 1236. Corequisite: HYGN 1242.

HYGN 1242 Dental Hygiene Theory and Practice II Cr. Hrs. 4

A continuation of foundational knowledge requisite for clinical care on less complicated clients that includes the theory and principles underlying the practice of dental hygiene based on the Dental Hygiene Process of Care. Prerequisites: HYGN 1234 and HYGN 1236. Corequisite: HYGN 1238.

HYGN 1262 Dental Radiology Cr. Hrs. 3

An introduction to the production of x-rays, radiation biology, radiation protection, imaging materials, imaging techniques, recognition of radiographic landmarks and structures, and quality control of radiographs. Corequisites: HYGN 1234 and HYGN 1238.

HYGN 1270 Biology of the Head and Neck Cr. Hrs. 3

Anatomy, physiology, histology and embryology of the head and neck.

HYGN 1280 Microbiology and Infectious Diseases Cr. Hrs. 3

A study of different types of microorganisms. Infectious diseases will be discussed in terms of reservoirs, transmission, pathogenesis, treatment and prevention. Emphasis will be given to common communicable diseases, the oral microflora and its role in disease and health.

HYGN 1292 Dental Hygiene Preclinical Restorative Techniques Cr. Hrs. 2

A study of the principles and techniques of restorative dentistry. Introduction information on restorative dentistry specialties.

HYGN 1320 Dental Materials Cr. Hrs. 2

A study of the properties of materials used in the oral environment for restorative, prosthetic, orthodontic and preventive purposes. Laboratory demonstrations and exercises are designed to demonstrate the correct preparation and handling of dental materials.

HYGN 1340 Communications Cr. Hrs. 2

This course provides an introduction to basic principles of communication in relation to everyday and professional interactions. The students are sensitized to the process of communication, its complexities and its related dynamics. Particular attention is given to enabling students to develop effective professional communication skills that have the potential to promote client compliance and harmonious working relationships.

HYGN 1352 Community Health I Cr. Hrs. 3

An introductory, participatory course in community oral health promotion intended to inspire a sense of community responsibility in students as health professionals responding to community needs through classroom teaching, interviews and debates.

HYGN 1360 Periodontology I Cr. Hs. 2

A study of the normal tissues of the periodontium, and an introduction to periodontal diseases, their etiology, epidemiology and treatment, especially as these relate to dental hygiene practice. A critical analysis of periodontal cases is included.

SECTION 5: Dental Hygiene Course Descriptions-2000 Level

HYGN 2100 Dental Hygiene Portfolio Cr. Hrs. 2

This two credit hour course houses the evaluation component of the programmatic portfolio of student competencies that all students commence at enrolment and complete prior to graduation.

HYGN 2280 Pharmacology Cr. Hrs. 2

Drugs used in clinical practice; a general knowledge of drugs by groups with emphasis on agents such as local anesthetics, analgesics, and antibiotics used extensively in the practice of dentistry.

HYGN 2300 Pathology Cr. Hrs. 3

A study of the principles of general and oral pathology involving pathologic mechanisms, disorders of physiologic systems, and pathologic conditions and diseases affecting oral and para-oral structures.

HYGN 2312 Dental Hygiene Clinical Practice II Cr. Hrs. 4

This competency-based clinical course amalgamates theoretical knowledge and clinical skills in both general clinical and community based clinical settings. Students provide care to clients with moderate oral health needs. This course is evaluated on a pass/fail basis. Prerequisites: HYGN 1238 and HYGN 1242. Corequisite: HYGN 2314.

HYGN 2314 Dental Hygiene Theory and Practice III Cr. Hrs. 4

Learning, motivation, and behaviour modification theories are applied to oral health promotion. Dental hygiene care plans are developed using a human needs model and process of care. Ethics, jurisprudence and practice standards are discussed. Prerequisites: HYGN 1238 and HYGN 1242. Corequisite: HYGN 2312.

HYGN 2316 Dental Hygiene Clinical Practice III Cr. Hrs. 4

This course advances the student's clinical dental hygiene skills to a level of minimal competency. Students provide dental hygiene care to clients with high oral health needs to facilitate their attainment of optimal oral health. This course is evaluated on a pass/fail basis. Prerequisites: HYGN 2312 and HYGN 2314. Corequisite: HYGN 2318.

HYGN 2318 Dental Hygiene Theory and Practice IV Cr. Hrs. 5

The oral health needs of persons with disabilities and the development of dental hygiene care plans to address those needs are discussed as well as issues of access to dental hygiene care, employment, quality assurance, and professional growth and development. Prerequisites: HYGN 2312 and HYGN 2314. Corequisite: HYGN 2316.

HYGN 2340 Periodontology II Cr. Hs. 2

Continuation of the study of etiology, diagnosis and treatment of periodontal disease.

HYGN 2350 Biology of Oral Tissues Cr. Hrs. 2

Consideration of physiology of the oral environment and its microflora in relation to health, dental caries and periodontal diseases.

HYGN 2362 Community Health II Cr. Hrs. 3

Student abilities to deliver community oral health education/promotion programs, with attention given to barriers and strategies used to meet the unique needs of target populations less likely to have optimal oral health are further developed. Prerequisite: HYGN 1352.

HYGN 2370 Nutrition in Dentistry Cr. Hrs. 2

An examination of the fundamentals of nutrition and the relationship between nutrition and health within the context of the health professions. The focus is on nutritional strategies used to promote health and in the treatment of common health conditions. The primarily on-line content is followed up with a combination of oral health specific patient/clinical exercises for Dental Hygiene students. May not be held with HNSC 2170 or ORLB 2330, HNSC 2170, or the former ORLB 2150 or the former PHRM 2420.

HYGN 2380 Pain Management Cr. Hrs. 2

This course is designed to enhance the dental hygiene student's knowledge of the mechanisms of pain control through the administration of topical and local anesthetic agents. Emphasis will be placed on the pharmacology of dental anesthetic agents and their interaction with the client's current conditions and medications.

SECTION 5: Dental Hygiene Course Descriptions-4000 Level

HYGN 4412 Dental Hygiene Practice Management and Leadership Cr. Hrs. 3

This course is designed to provide the student with the necessary knowledge and skills to facilitate the transition to the practice environment. The focus of the course is leadership, workplace dynamics, management, developing alternate practice settings and working with third party payers. Oral health care management in a variety of organizations such as community health agencies, private practice, research and industry will all be discussed.

HYGN 4460 Community Health Independent Study Cr. Hrs. 3

This course is a practicum and/or independent study course focusing on the design and/or implementation and evaluation of the health promotion program process in; the field. Students may choose to host an oral health awareness raising event for the public, provide community-based oral health promotion activity at a selected site, develop a small-scale oral health promotion program for an underserved population group or a similar community-based project.

HYGN 4470 Community Health Independent Study II Cr. Hrs. 3

This course is a continuation of HYGN 4460 (Community Health Independent Study) and provides a further opportunity for the student to build on the previous independent study course or focus on the design and/or implementation and evaluation of an additional health promotion program. In either case, students may choose from oral health awareness raising event for the public, community-based oral health promotion activity, small-scale oral health promotion programming or similar community oral health project.

HYGN 4492 Current Issues in Dental Hygiene Cr. Hs. 3

This seminar course focuses on current topics concerning the profession of dental hygiene in Canada and Internationally. Exploration of global topics will enable the student to glean a broad view of the profession.

HYGN 4500 Advanced Oral Pathology Cr. Hrs. 3

A web-based CD-ROM distance education course designed to present the clinical and pathobiologic aspects of diseases that affect oral and maxillofacial tissues or present with significant oral manifestations of systemic diseases. This course is presented in conjunction with the University of Manitoba and the University of British Columbia.

HYGN 4510 Microbiology and Immunology Cr. Hrs. 3

This Web CT course is offered in conjunction with the University of British Columbia. Microbiological and immunological concepts that are the scientific basis for understanding human response in health and disease

will be explored. This course builds on knowledge acquired from dental hygiene entry-to-practice level education and dental hygiene practice.

HYGN 4520 Advanced Independent Study I Cr. Hrs. 3

This course will enable the degree-completion student to explore issues or areas of interest in dental hygiene with the mentorship of a dental hygiene faculty member. Dependent upon the extent of the project, students may enroll in either three or six hours of study.

HYGN 4530 Teaching Practicum Cr. Hs. 3

This course provides students with a seminar course in clinical teaching methodologies and the opportunity to practice teach within an undergraduate dental hygiene program under the supervision and mentorship of dental hygiene faculty members.

HYGN 4540 Advanced Teaching Practicum Cr. Hrs. 3

This course is a continuation of HYGN 4530 (Teaching Practicum) and provides the opportunity to extend the practice teaching experience into a second term, thus strengthening the individual's skills as a dental hygiene educator. This experience will occur under the supervision and mentorship of dental hygiene faculty members.

HYGN 4550 Advanced Independent Study II Cr. Hs. 3

This course is a continuation of HYGN 4520 (Advanced Independent Study) and provides the opportunity for the student to pursue a more complex project which cannot be completed within the first course. Students will have selected their project topic in HYGN 4520 and will continue their exploration and write-up of this topic with the guidance of a dental hygiene faculty mentor.

Max Rady College of Medicine

Dean: Dr. Brian Postl

Vice Dean(s): (Academic Affairs): Dr. Sara Israels; (Continuing Competency & Assessment): Dr. Christine Polimeni; (Education): Dr. Christine Ateah; (Indigenous): Dr. Catherine Cook; (Research): Dr. Peter Nickerson

Assistant Dean(s): (Brandon Satellite Program): Dr. Joanne Maier

Associate Dean(s): (Admissions) Dr. Sara Goulet; (Undergraduate Medical Education): Dr. Ira Ripstein; (Professionalism): Dr. Eric Jacobsohn; (Student Affairs, UGME): Dr. Aviva Goldberg; (First Nations, Métis & Inuit Health): Dr. Catherine Cook; (Research): Dr. Jude Uzonna; (Brandon Satellite Program): Dr. Charles Penner; (Continuing Competency and Assessment): Dr. Christine Polimeni; (Quality Improvement & Accreditation): Dr. Aaron Chiu; (Postgraduate Student Affairs & Wellness): Dr. Amanda Condon; (Postgraduate Medical Education): Dr. Cliff Yaffe

Campus Address/General Office: 260 Brodie Centre-727 McDermot Avenue
Winnipeg, MB R3E 3P5
Telephone: (204) 789-3557
Fax: (204) 789-3929
Website: umanitoba.ca/medicine

Department of Community Health Sciences-Family Social Sciences

Department of Community Health Sciences-Family Social Sciences-Second Degree

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SECTION 1: Medical Education

1.1 Mission Statement

The Mission of the Max Rady College of Medicine is to develop and deliver high quality educational programs for undergraduate and postgraduate students of medicine, for graduates and post-doctoral fellows in the basic medical sciences and for physicians in practice; conduct research and other scholarly inquiry in the basic and applied medical sciences; and, contribute to the improvement of health status in Manitoba and beyond by providing advice, disseminating information to health professionals and the public, and by cooperating in the planning for the development and delivery of health care services.

The Mission of the Undergraduate Medical Education Program is to develop, deliver and evaluate a high quality educational program for the MD Program.

Our Graduates will approach their profession with a spirit of Discovery by:

- Welcoming and adapting to the ever-changing nature of medicine
- Appreciating the continuum of basic science and human wellness
- Building a broad and unbiased foundation of medical knowledge
- Maintaining openness to practice medicine and conduct broader academic work in urban hubs and in rural and Northern communities, in Canada and around the world

Our Graduates will embrace Scholarship by:

- Pursuing academic excellence at every stage of their careers as clinicians, researchers, academics, and administrators
- Appropriately applying medical research and innovation to patient care
- Committing to the practice of lifelong learning as professionals
- Committing to the lifelong maintenance of an evidence-based practice
- Healing through knowledge and compassion and acting as educators for patients, allied health professionals, and one another

Our Graduates will lead and collaborate within their communities by:

- Advocating for the health and safety needs of individual patients and collective populations
- Communicating effectively with all health care professionals, including generalists, specialists, and allied professionals and those in related sectors
- Exemplifying professionalism and sustaining a climate of respect in all aspects of their lives
- Fostering an atmosphere of cultural safety for all patients and populations by practicing with open-mindedness and unconditional goodwill.

- Providing expert and compassionate medical care to diverse patient populations in Canada and beyond
- In doing so, graduates of the Max Rady College of Medicine at the University of Manitoba will become exemplary physicians prepared to undertake the responsibilities entrusted to them

Medical education in Manitoba is designed to provide students with the knowledge and experience they need to practise medicine in a profession where new developments in science and public health policy create an ever-changing environment. In the first two years of the program, referred to as Pre-Clerkship, the subject matter is divided into Modules comprised of courses which cover core concepts in Human Biology, Health and Disease. The final two years, referred to as Clerkship are spent in direct contact with patients and doctors in a range of rural and metropolitan clinical settings in which students gain experience with Increasing responsibility for patient care and management.

1.2 History of the College

Medical education in Manitoba had its beginnings in 1883 when 13 physicians applied to the local legislature for a charter to form the Manitoba Medical College. The college was chartered as an affiliate of the University of Manitoba. The number of students registered for the first session was 15, and the number in attendance at each session from that date to the present has ranged from 15 to 440. The university came to the aid of the Medical School from time to time by furnishing full-time professors in chemistry, physiology, pathology, bacteriology, and zoology. With the session of 1918-1919 the Manitoba Medical College ceased to exist as a separate institution. It made a gift of all its property and equipment to the University of Manitoba "on condition that the university establish a Faculty of Medicine, and carry on the work of medical education in an efficient manner."

In 1921, a building for the accommodation of the departments of Physiology, Biochemistry, and Bacteriology was erected on the old Medical School property, and a further unit was completed in February, 1922. In January, 1956, the new wing of the medical building was officially opened, which included new quarters for the Medical Library. In February, 1965, the Chown Building was opened providing five-stories of administration offices and space for Pharmacology and Therapeutics and the Computer Department for Health Sciences. The Basic Medical Sciences Building, containing undergraduate teaching facilities, opened in 1973. It provides accommodation for anatomy, biochemistry, physiology, and medical microbiology. The Brodie Centre officially opened in the spring of 1996; it provides a library, research and recreational facilities. In 2004, the Office of the Dean and the Education Offices relocated to new administrative facilities in the Brodie Centre. General teaching facilities are located in the medical buildings, and facilities for clinical instruction are provided in the teaching hospitals affiliated with the University of Manitoba and in related institutions. The varied settings in which medicine is practised in Winnipeg and in rural and northern Manitoba also provide students with the opportunity to study community medicine outside the major teaching institutions.

1.3 Neil John Maclean Health Sciences Library

The Neil John Maclean Health Sciences Library provides access to a wide range of evidence-based medical resources. Online resources include core medical textbooks such as *Harrison's Principles of Internal Medicine*, drug reference resources such as *Lexi-Comp* and *RxTX* and clinical point of care tools such as *UpToDate*, *First Consult*, *Clinical Key*, and *Access Medicine*. The Library subscribes to over 4,500 online journals and a number of essential medical databases such as PubMed, EMBASE, Scopus, and the Science Citation Index Expanded through Web of Science. Students can access all of the online resources on-campus using the Bannatyne campus wireless

network and from home with a UManitoba ID. The Library's facilities include an assistive technology workstation, 2 computer labs with 15 computers each, 12 seminar rooms, which can be booked by students for group study, 92 study carrels, and 24 computers for walk-in use. Librarians offer training on the use of key medical resources and information management both as part of the curriculum and in regularly scheduled sessions throughout the year.

1.4 Graduate Studies

Approximately 350 graduate students are doing research and pursuing Master's and Doctoral degrees in the Max Rady College of Medicine. Their training programs offer opportunities to conduct research at a number of sites such as the Bannatyne Campus, National Microbiology Laboratory and St. Boniface Hospital Research Centre. Graduate programs are available in the Departments of Biochemistry and Medical Genetics, Community Health Sciences, Human Anatomy and Cell Science, Immunology, Medical Microbiology and Infectious Diseases, Pathology, Pharmacology and Therapeutics, Physiology and Pathophysiology as well as Surgery.

1.5 Postgraduate Medical Education

Postgraduate Medical Education (PGME) at the University of Manitoba is comprised of a variety of training programs for graduated medical students interested in obtaining a higher level of education in Family Medicine or medical specialty. Programs are usually organized to be in one of three categories:

- Programs accredited by the Royal College of Physicians and Surgeons of Canada (RCPSC).
- Programs accredited by the College of Family Physicians of Canada (CFPC).
- Other training and fellowship programs approved by the Max Rady College of Medicine.

For further information, please refer to the Postgraduate Medical Education website or see Section 10.

1.6 Master of Physician Assistant Studies

The Master of Physician Assistant Studies program is the first graduate level program for Physician Assistant Education in Canada. Upon completion of the comprehensive two year program, graduates receive a Master of Physician Assistant Studies degree. The program educates outstanding Physician Assistant clinicians who serve their communities and advance the profession in Manitoba and Canada. The program also nurtures the future leaders of the profession, and leads the field in academic preparation of Physician Assistants in Canada. For further information, please refer to the Physician Assistant Studies Program [website](#). Please refer to Graduate Academic Calendar [Physician Assistant](#) Program Info.

1.7 Office of Educational and Faculty Development

The mandate of the Office of Educational and Faculty Development is to work in a collaborative manner across all programs and schools within the Max Rady College of Medicine to provide expertise and services related to medical education including curriculum development, faculty development, and design of evaluation tools and assessment. The second purpose of the Office of Educational and Faculty Development is to engage in research and scholarly activity related to medical education.

1.8 Continuing Professional Development

The Continuing Professional Development Program (Medicine) is an accredited academic unit responsible for creating a variety of certified

educational programs for physicians and other primary care practitioners throughout the Province of Manitoba and North-western Ontario. These educational sessions incorporate plenary, small group, interactive and e-learning activities to a consistently growing audience. Each year, CPD-Med develops and co-develops over one hundred educational sessions. In addition, the program provides support in the form of event planning, organization of clinical traineeships and coordination to externally developed CPD events on a fee-for-service basis, as well as, providing accreditation of CPD events on behalf of the Royal College of Physicians and Surgeons of Canada (RCPSC). CPD-Med also provides assistance in maintaining educational standards for accredited regular scheduled series programs in a number of departments in the Max Rady College of Medicine.

For information contact:

Continuing Professional Development, Max Rady College of Medicine, Rady Faculty of Health Sciences

260 Brodie Centre - 727 McDermot Avenue

Winnipeg, Manitoba R3E 3P5

(204) 789-3660 Fax (204) 789-3911

umanitoba.ca/cpd/

SECTION 2: Admission to the Max Rady College of Medicine

The Applicant Information Bulletin is the official policy document for Admission. The document can be found at: http://www.umanitoba.ca/student/admissions/media/medicine_bulletin.pdf The Applicant Information Bulletin is reviewed and updated annually and may be subject to change.

Doctor of Medicine (M.D.)

BSc (MED)- Bachelor of Science in Medicine

MD/PhD

The 4 year general MD Program is open to the following applicant pools and streams:

- Manitoba Applicant Pool
- Bilingual (French/English) Stream
- Canadian Indigenous Applicant Pool
- Out of Province Applicant Pool

2.3 Eligibility Requirements for Admission

Refer to the Applicant Information Bulletin for the eligibility requirements:

http://www.umanitoba.ca/student/admissions/media/medicine_bulletin.pdf

2.4 Additional Requirements

- Technical Standards Requirement; the Max Rady College of Medicine has identified the requisite skills and abilities for admission, promotion and graduation in the MD program; these can be found at

http://umanitoba.ca/faculties/health_sciences/medicine/education/undergraduate/policies.html

- The University of Manitoba and the Max Rady College of Medicine is committed to providing all students equal access to learning opportunities. If you are a student with a diagnosed disability (permanent, chronic, or temporary) who may require academic accommodations, please contact Student Accessibility Services at 204-474-7423 or by email at student_accessibility@umanitoba.ca to learn more about the confidential supports that are available. <http://umanitoba.ca/student/saa/accessibility/>
- Adult Criminal Record, Child Abuse Registry and Adult Abuse Registry Checks; all applicants must complete a self-declaration regarding adult criminal records, pending criminal charges and registration on the child abuse registry as an offender; this self-declaration must be done at the time of application; an adult criminal record check, declaration of pending criminal charges and child abuse registry self-check are required at the time of registration and annually thereafter;
- Professional Registration; all medical students must be eligible for, and become registered with the College of Physicians and Surgeons of Manitoba (CPSM) by the time of registration; eligibility requirements can be viewed on the CPSM website at: www.cpsm.mb.ca;
- Immunization requirements can be viewed at http://umanitoba.ca/faculties/health_sciences/medicine/education/undergraduate/immunestatus.html
- Students must have CPR designated as "Health Care Provider Level C" acceptable to the standards of the Heart and Stroke Foundation at the time of registration in Year I. Students must have annual renewal of their CPR registration acceptable to the standards of the Heart and Stroke Foundation throughout the Undergraduate Medical Education program. Evidence of current renewal must be provided on an annual basis prior to the beginning of the academic year. Failure to comply, may result in exclusion from all academic programs until renewal is obtained.

2.5 Eligibility Requirements for Transfer

Applications for transfer are only accepted from students registered and in good standing at an LCME accredited medical school. Transfers can only be considered if there is a seat available through attrition. Details regarding the transfer policy can be found at the following link:

http://umanitoba.ca/faculties/health_sciences/medicine/education/undergraduate/media/Transfer_Policy_Approved_by_Senate_11.7.18.pdf

SECTION 3: Academic Regulations

The provisions of the chapter, [General Academic Regulations and Requirements](#), and the chapter, [University Policies](#), apply to all students. Max Rady College of Medicine regulations and requirements change from time to time. Detailed information concerning the general regulations governing admissions, evaluation, academic progress and withdrawal for an undergraduate medical student may be obtained from the Undergraduate Medical Education Office. These regulations include the following:

- A student will not be permitted to register unless the student is in good academic and financial standing from the previous year.

- No year may be repeated more than once.
- A student who withdraws from the Max Rady College of Medicine without prior written notice will be considered to have terminated connection with the College and will not be eligible for re-admission.
- A student who withdraws from the College having given due notice of intention to withdraw is eligible for re-admission. If re-admission is approved the student will be required to conform to the rules and regulations, fee schedules, sequence of courses, in effect at the time of such readmission.
- A student may, after completion of the work of a full year, be granted a leave of absence for one year subject to certain conditions related to the purpose of the leave of absence and on subsequent registration will be required to conform to the rules and regulations, fee schedules, and sequence of courses in effect at the time of such registration. The Leaves of Absence (LOA) Policy can be viewed at the following [link](#)
- A student who has been or expects to be prevented from attending any regular examination by reason of illness or other cause beyond the student's control should at once notify the Associate Dean, Student Affairs and must abide by the requirements of the Deferred Examination Policy and Procedures found at the following [link](#)
- The College Executive Council reserves the right to require a student to withdraw from the program for which the student is enrolled when it believes the student to be unsuited, on general considerations of scholarship, or conduct for the profession, or the field within the profession, to which the program of studies normally leads. This right prevails notwithstanding any other provision in the college regulations.
- Each student is required to present the personal and professional appearance, attitudes and behaviours expected of members of the medical profession. The Max Rady College of Medicine has a process through which lapses in professionalism are reported, investigated, and, when necessary, will result in remedial or punitive actions up to and including dismissal. The College of Medicine Professionalism website provides additional information at the following [link](#)
- Each student must complete the undergraduate program for the M.D. degree of the Max Rady College of Medicine within seven years of entry to first-year Medicine, exclusive of those students undertaking additional academic pursuits which are acceptable to the Progress Committee. The Leaves of Absence (LOA) Policy can be viewed at the following [link](#). When a student fails to complete the program, Progress Committee will review the academic record of the student. The reasons for the prolonged duration of the student's program are confidential but must be approved as valid by the Associate Dean, UGME.

3.1 Requirements for the Degree of Doctor of Medicine (M.D.)

Every candidate for the degree of Doctor of Medicine must have satisfied the following requirements:

- Subsequent to the successful completion of the required university studies, a student must have attended four full sessions of not less than nine months each in this or some other

school of medicine approved by the University of Manitoba, the last two years of which must have been spent as a student of the University of Manitoba.

- A student must have completed the required work, have fulfilled satisfactorily all special requirements, have received satisfactory grades throughout the entire medical program, and have discharged all indebtedness to the university.

Degrees: All degrees in Medicine will be conferred by the Senate of the university on the recommendation of the College Executive Council at a regular meeting of the University Senate or at a meeting specially called for that purpose.

3.2 Requirements for Registration to Practise Medicine

A university degree in medicine does not in itself confer the right to practice the profession of medicine in Canada. That right is obtained from a provincial registering body in the particular province in which the graduate desires to practice, and follows the successful completion of the Medical Council of Canada's two qualifying examinations.

3.2.1 Federal Registration: The Medical Council of Canada

The Medical Council of Canada was established in 1912 by the Canada Medical Act. Its purpose is to grant a qualification to practice medicine acceptable for license in every province of Canada. It is not a licensing body, but "anyone who secures the diploma of the Medical Council of Canada by examination is registered on the Canadian Medical Register. This registration entitles one to become licensed to practice medicine in any province in Canada upon payment of the necessary fee and on meeting other provincial requirements."

The Medical Council of Canada examinations are normally taken by undergraduate medical students of the University of Manitoba at the end of the fourth year. There is a fee for this examination. Examinations are held annually in Winnipeg in May and November, and registration for these examinations may be made with The Registrar, Medical Council of Canada, 2283 St. Laurent Boulevard, Ottawa, ON K1G 5A2. The deadline for application is usually in December; candidates are advised to contact the Medical Council of Canada for current information: www.mcc.ca.

3.2.2 Provincial Registration

The College of Physicians and Surgeons of Manitoba is the regulation body for the physicians in Manitoba. Each medical student must be registered with the College of Physicians and Surgeons of Manitoba in each year of the academic program. For information on registration in Manitoba contact: The College of Physicians and Surgeons of Manitoba, 1000-1661 Portage Ave., Winnipeg, MB R3G 3T7; telephone: (204) 774 4344 or <http://cpsm.mb.ca/>.

SECTION 4: The Program for the M.D. Degree

4.1 Governance

The program and its curriculum are the responsibility of the Curriculum Executive Committee. The policies, regulations, implementation and modifications of the educational program for the M.D. degree are determined by the Curriculum Executive Committee on the recommendation of the College Executive Council, Pre-Clerkship Curriculum Committee and the Clerkship Curriculum Committee. The Curriculum Executive Committee is chaired by the Associate Dean,

UGME. The Terms of Reference for this committee and committee membership can be viewed at the following [link](#). The Curriculum Executive Committee is responsible for the curriculum, teaching, and evaluation in the educational program leading to the M.D. degree.

4.2 General Statement

The UGME program has undergone an exhaustive comprehensive curriculum renewal process which commenced in 2010. The new clerkship was introduced in August 2013, and the new preclerkship was introduced in August 2014. The curriculum was created to be a fully integrated spiral scaffold curriculum throughout all 4 years that fulfills UGME global objectives, *Future of Medical Education* (FMEC) recommendations and LCME/CCME standards. It was fashioned to be a *Person to Community Centered* curriculum (as opposed to organ system or department-based).

The program is a continuum over the four years but is divided into the Pre-Clerkship, Years 1 and 2, and the Clerkship, Years 3 and 4, for administrative purposes. The mission and objectives of the program can be found at the following [link](#)

The Max Rady College of Medicine does not support students' limitation of their studies to only fields and disciplines of personal interest. Nonetheless, students are encouraged to pursue areas of interest and to develop their own education through clerkship electives and summer clinical exposures or research experiences. Students learn to use information, skills and behaviour from multiple sources of teaching to prevent and solve the health care issues that face their patients and society. Students learn that physicians are part of an interdisciplinary team and health care system that provides accessible, continuous and comprehensive health care.

In order to modify and enhance the educational program, the opinions of students and their evaluation of the program and its teachers are formally sought and respected by faculty. This information is used by the Curriculum Executive Committee to improve the program.

4.3 The Plan of the Curriculum

4.3.1 Professionalism

Professionalism, that is the behaviour and attitudes befitting medical professionals, is an important component of the Undergraduate Medical Education curriculum. Our goal is to instill the attributes of professionalism and to emphasize to medical learners that professional characteristics and attributes are necessary during the practice of medicine and for the development of their identity as physicians.

The Max Rady College of Medicine has developed a professionalism charter that serves as a framework for defining and demonstrating medical professionalism.

In cases where lapses in the level of professionalism necessary to underpin medical education are recognized, the Max Rady College of Medicine uses a Professionalism Report by which single egregious or recurrent lapses in student professionalism can be brought to the school's attention. A summary statement will be included on an individual's Medical Student Performance Record if two or more validated reports have been received. The Max Rady College of Medicine maintains the option to dismiss students on the basis of unprofessional behaviour, regardless of performance in the curriculum.

4.3.2 Pre-Clerkship Program:

The goals and objectives of the UGME Pre-Clerkship curriculum are based on the mission and objectives of the undergraduate program as outlined in the following [link](#). Student assessment is based on achievement of the

learning objectives provided to students on-line via a curriculum management system known as Entrada.

The curriculum framework is based upon the principles of scaffolding and integration. The program comprises **Human Biology, Health and Disease Modules** commencing with a four week module – **Foundation of Medicine**. This module provides a basic science foundation relevant to the study and practice of medicine with the focus on principles, themes and overarching framework- these include normal structure and function of molecules, cells and tissues and how homeostasis is maintained at these levels; how cells respond to perturbations in homeostasis and some of the possible consequences; major mechanisms that underlie the development of disease, and exogenous factors that threaten health.

This is followed by 23 weeks of the **Human Biology and Health Modules** which in sequence are: Blood and Immunology 1, Cardiovascular 1, Respiratory 1, Neuroscience 1, Musculoskeletal 1, Endocrine/Metabolism 1, Woman's Reproductive Health 1, Gastroenterology, Hepatology, Nutrition 1 and Urinary Tract 1 courses. These courses cover the normal development, anatomy, histology, physiology and processes for the various systems, predominantly basic sciences with clinical cases (normal or abnormal) to contrast or help illustrate normal. Each course will include an overview of burden of illness or diseases related to that system. The courses will be presented in the mornings while the afternoons will consist of five *Longitudinal Courses* that will proceed throughout all four years. These include:

- (1) Clinical Reasoning
- (2) Professionalism
- (3) Population Health
- (4) Clinical Skills
- (5) Indigenous Health

The content, where relevant will parallel the morning module courses.

Following completion of the **Human Biology and Health Modules**, the same course names will appear as Human **Health and Disease Modules**. This is 36 weeks in total with the first 9 weeks completing year 1 of study. **Health and Disease Modules** starts with an Introduction to Infectious Disease and Therapeutics course followed by Cardiovascular 2 and Respiratory 2. Year 2 of study commences with the remainder of the M2 courses in sequence: Blood and Immunology 2, Principles of Oncology, Neuroscience 2, Endocrine/Metabolism 2, Woman's Reproductive Health 2, Gastroenterology, Hepatology and Nutrition 2, Urinary Tract 2 and Musculoskeletal 2. All the courses are presented as abnormal processes, predominantly clinical cases with review and application of basic sciences. Modules will be presented in the mornings while the afternoons will be five *Longitudinal Courses* again including:

- (1) Clinical Reasoning
- (2) Professionalism
- (3) Population Health
- (4) Clinical Skills
- (5) Indigenous Health

The content, where relevant, will parallel the morning module courses. Each course provides an overview of burden of illness and societal impact of diseases, and for each specific abnormality or disease where relevant the

epidemiology, scientific basis and anatomy review, prevention and screening, cultural, social and ethical issues, natural history and prognosis, diagnosis, therapeutics and disease management. These may be covered during the morning module course or the afternoon Longitudinal course. The impact of Translational Research, Evidence Based Medicine and Health Care Systems will be highlighted where appropriate.

Year 1 will conclude with a one week rural primary care exposure.

Year 2 will conclude with a 9 week **Consolidation module**. The module will ensure all the content from the previous modules are assimilated, and includes single symptom presentations with broad differential diagnosis, multisystem disease such as complicated diabetes, "Themes" or disciplines such as pediatrics, geriatrics and systemic diseases such HIV, SLE and multiple myeloma. The consolidation module begins with the pain management curriculum and the dermatology course. The subsequent weeks will be small group case based discussions to ensure all the 137 **Essential Clinical Presentations** have been covered at appropriate level.

The two-year Pre-Clerkship curriculum brings together teachers and facilitators from across all College Departments, other healthcare related faculties and disciplines as well as members of the public. All basic medical sciences, including anatomy, molecular biology, biochemistry, human genetics, immunology, microbiology, physiology contribute to the curriculum as do the clinically applied basic sciences of pathology, pharmacology and community health sciences. Clinical departments including anaesthesia, clinical health psychology, family medicine, internal medicine, obstetrics, gynaecology, ophthalmology, otolaryngology, paediatrics, psychiatry, surgery are involved in all aspects of the curriculum.

An overview of the UGME Framework within the Pre-Clerkship component of the Undergraduate Medical Education program can be viewed at the following [link](#)

Methods of Teaching

A variety of approaches are used to facilitate learning. These include self-directed learning, small group sessions, whole group sessions, lab practicals and simulation.

Methods of Assessment

Formative and summative assessments are provided throughout the Pre-Clerkship curriculum. These include self-reflection, learning portfolios, tutor feedback, instructional tests, multiple choice examinations, practical examinations, and short and long answer examinations.

Attendance

Certain learning sessions within the UGME program are designated as "mandatory attendance" sessions. These are generally sessions in which students are learning in a small group format, patients or their families are involved; clinical skills are being taught; or clinical care is being provided. Attendance at these sessions is recorded and reported to the UGME office, and contributes to the evaluation of the learner's professionalism. The Attendance Policy can be viewed at the following [link](#)

The procedures outlined in this policy do not preclude course directors, session leaders and instructors from tracking student learner attendance in their sessions and discussing any concerns related to attendance with the learners.

4.3.3 Clerkship Program:

The Clerkship component of Curriculum Renewal introduced in 2013 was created to facilitate the integrated 4 year scaffold curriculum with central governance, supervised responsibility for patient care and mandatory

academic time with frequent feedback and evaluation. The program is governed by the Clerkship Curriculum Committee for which the terms of reference and membership can be viewed on the [website](#)

The Clerkship (Years 3 and 4) consists of **Transition to Clerkship (3 weeks)**, **Core Clinical Rotations (48 weeks)**, **Electives, and CaRMS interviews (20 weeks)**, and **Transition to Residency (12 weeks)**

Transition to Clerkship (TTC) (3 weeks): The goal of TTC is for the students to expand their focus from learning during preclerkship years to the actual provision of care in various health care settings. This will help the students translate the knowledge gained in pre-clerkship to the clinical setting and the actual provision of care. This includes the supervised responsibilities that accompany provision of preventative health and management of disease by use of simulation, patient assessments, small group sessions and shadowing experiences. The **Transition to Clerkship** is launched with a prominent local keynote speaker and reciting of Hippocratic Oath, includes three weeks in various didactic, simulation, and community settings.

Core Clerkship Rotations (48 weeks): There are four 12 week blocks comprising 8 major clinical disciplines combining 2 disciplines per block to facilitate delivery of joint academic time: Surgery and Anesthesia, Internal Medicine and Emergency Medicine, Pediatrics and Obstetrics/Gynecology and Psychiatry with Family Medicine/Public Health. For more specific outline see http://umanitoba.ca/faculties/medicine/education/undergraduate/program_overview.html. The primary responsibility of the clerks in the program is the care of patients under the supervision of postgraduate students and faculty. Settings for the clerkship experience are varied, including wards and outpatient facilities of the hospitals, doctors' offices, rural settings and community-based hospitals. A formal Academic Half Day occurs weekly with mandatory attendance shared and created equally by the UGME Office and Longitudinal Courses, and the respective core clinical rotations. The *Longitudinal Courses* are those that proceed throughout all four years and include:

- (1) Clinical Reasoning
- (2) Professionalism
- (3) Population Health
- (4) Clinical Skills
- (5) Indigenous Health

The UGME academic time includes reflection exercises and assignments. An *Evidence Based Medicine Course* and *Capstone Project* is included during this time period. The core rotations each have additional scheduled academic sessions.

Electives and CaRMS National Interview Period (20 weeks): There are 17 weeks of electives prior to the CaRMS National Interview Period. Throughout the elective periods, students must pursue education in a minimum of three different disciplines with a minimum duration of two weeks and maximum duration of eight weeks each. Electives may be pursued in a setting of the student's own choice (including beyond the university), but must be approved by the Director, Electives. Students are responsible for all costs associated with electives and CaRMS interviews, e.g. transportation, accommodation etc.

Transition to Residency (12 weeks): Following completion of the CaRMS interviews will be two 3 week selective periods selected from a catalogue of options including international selectives and university exchange programs, sandwiching CaRMS match week. During this time period students will be participating in an Evidence Based Medicine Course and

Capstone Project. The CaRMS match week will include preparation for PGME sessions including types of practise, leadership skills, team work and medical legal/licensure sessions. **Transition to Residency** will conclude with a 4 week Comprehensive Review and Advanced Cardiac Life Support (ACLS) course

4.3.4 Requests for Conscience-Based Objections

The College of Medicine acknowledges that at times, learners may object to participating in educational activities. Learners who object to participation in educational activities may refer to the *Conscience Based Exemptions Policy* available [online](#) in order to seek a Conscience-Based Objection.

SECTION 5: Student Assessment and Academic Progress

5.1 Responsibility

The policies and procedures for the assessment of the students in the program for the M.D. degree are the responsibility of the College Executive Council.

Progress Committee: The Progress Committee meets regularly to evaluate the performance and progress of students enrolled in the Undergraduate Medical Education program.

The responsibilities of the Progress Committee include:

- Recommending to the College Executive Council the academic standards by which the progress of students are judged and ensuring that examiners have followed the policies and procedures set by the College Executive Council.
- Determining which students may proceed to the next stage of the program or to graduation.
- Determining which students should write supplemental examinations, or be required to take remedial study, or be required to repeat all or part of the academic year before promotion to the next stage of the program or graduation.
- Placing students on Monitored Academic Status or Probationary Academic Status.
- Ensuring that the Student Evaluation Committees have followed the policies and regulations of evaluation that have been approved by the College Executive Council.

The Preclerkship and Clerkship Student Evaluation Committees (PSEC, CSEC) conduct the assessment of the students. The knowledge, clinical and communication skills, attitudes and behaviour of the students are evaluated by examination, assessment of performance and completion of assignments.

The responsibilities of the PSEC, and CSEC include:

- Planning and administration of all aspects of student assessment and performance.
- Planning and administration of all supplemental examinations.
- Planning and administration of all other measures of academic performance.

- Planning and administration of remedial training for students with unsatisfactory academic performance.
- The reporting of the results of examinations, supplemental examinations, other academic performance evaluation and remedial training to the Progress Committee.

5.2 Evaluation in the Pre-Clerkship Program

5.2.1 Summative Examinations

The PSEC will inform the students of the pre-determined pass mark for each examination at the beginning of their course or module. The students, however, will be given the overall as well as the actual marks obtained in the different sections of the examination. Student results will be reported to them as a pass or fail. Grades and relative performance will be recorded in the students' active files. A student can view his or her active file in accordance with the Student Records Policy and procedures [online](#)

The Max Rady College of Medicine uses a Pass/Fail system where grades are not reported external to the Max Rady College of Medicine. Transcripts and Medical Student Performance Reports will indicate only whether a student has passed or failed a year, course, or module. However, within the Max Rady College of Medicine, student grades will be used to help identify students at academic risk and to help select students for distinctions such as awards and specialized programs.

For modular courses, there are written comprehensive examinations based on the objectives at the end of each course or module. In addition, there are mid-course or mid-modular assessments (often examinations) for each course. Each examination may use various methods of assessment: multiple choice questions, short answer questions, etc. There may also be take-home assignments in each course that contribute to the final mark. Longitudinal courses will have multiple forms of assessment throughout the year, and may include written examinations, take-home assignments, OSCE examinations, or other forms of assessment.

Expectations for student conduct and information related to pass marks for summative examinations can be found in the following UGME policies.

- [Examination Conduct Policy](#)
- [Examination Results Policy](#)
- [Deferred Examinations Policy](#)
- [Examination Accommodation Procedures](#)

5.2.2 Failures of the Evaluation in Pre-Clerkship Years 1 and 2

The UGME Promotion and Failure Policy governs decisions related to student promotion and failure at the Pre-Clerkship level can be viewed [here](#)

Students failing a number of examinations up to the maximum allowable failures for modular courses or up to two longitudinal courses are permitted to sit supplementary examinations in accordance with the Supplemental Examination Policy that can be viewed [online](#)

Students who fail any supplementary examination in a first or second year modular course will be given a third attempt to pass the particular course via a second supplemental examination. Students who fail this third attempt will fail the year. Students who fail any supplemental examination in a first or second year longitudinal course will fail that year.

Students who are granted supplemental privileges are expected to undertake remedial study at a time determined by the Director, Remediation. Remediation usually occurs during the summer period. Following the

remediation, a student will sit a supplemental examination comparable but different from that failed. The performance of students during the remedial period will be assessed by a preceptor and will normally include an oral and/or written examination and/or repeated OSCE. Students who fail to reach the standard expected after remediation will fail the year.

Students in Year 1 and Year 2 who are successful on the supplemental examination(s) will be promoted.

Students who fail Year 1 or Year 2 will be required to repeat that particular year.

5.2.3 Formative Assessment in Pre-Clerkship

A variety of formative assessments are conducted in Pre-Clerkship including instructional tests, practice questions, reflective writing, self-evaluation, and peer-evaluations.

5.2.4 Remediation in Pre-Clerkship

A student who fails an examination is required to meet with the Director, Remediation for a remediation assessment. The exact nature of the remediation may vary and will be determined on a case by case basis by the Director, Remediation in conjunction with the Course Coordinator. The student will also be required to meet with the Associate Dean, Student Affairs, who may also direct the student to other college members or services for students. Remediation Policy and Procedures can be viewed [online](#)

5.3 Evaluation of Students in the Clerkship Program

The Max Rady College of Medicine is currently going through a period of significant Curriculum Renewal. This process began in August 2013.

5.3.1 For Students beginning Clerkship prior to August 2013:

During the clerkship years students will be evaluated on their competence and this will include assessment of their cognitive knowledge and understanding, clinical skills, problem solving and judgement, technical skills, interpersonal attributes and general professional responsibility. Assessment will be the responsibility of the CSEC.

5.3.1.1 Methods of Summative Assessment (General)

The policy and procedures applicable for evaluation are:

- [Examination Conduct Policy](#)
- [Examination Results Policy](#)
- [Deferred Examinations Policy](#)
- [Examination Accommodation Procedures](#)

Various methods will be used to assess students, including the final evaluation reports (FITEs); written external NBME examinations and OSCE-type exams. Student performance for evaluation purposes during examinations may be recorded in writing, orally, by computer, by audio or by video taping. All material necessary to generate the mark such as papers, computer records and tapes will be destroyed once the student has passed that assessment. Such material can be of help to a student needing remediation before the examination.

To achieve this quality assurance, the Clerkship Student Evaluation Committee may use direct observation or indirect observation by audio and video monitoring. Quality assurance material is subject to the aforementioned regulations of the university and the College. Furthermore,

this material, which could identify the individual student will not be released to anyone, other than the Dean and Clerkship Student Evaluation Committee without the written consent of the student.

5.3.1.2 The Introduction to Clerkship (ITC)

The goal of Introduction to Clerkship (ITC) is to prepare the student for clerkship rotations. Students will be assessed for attendance and performance in learning groups. The purpose of student evaluations in ITC is to ensure that students are ready to begin the clerkship rotations.

Readiness for clerkship must be demonstrated in many areas including: basic medical knowledge and its application; clinical skills in evaluating patients; analysis of clinical data; problem identification and diagnosis; planning of investigation; planning of management and therapy; relationships to patients and staff. These attributes will be assessed in a variety of ways throughout ITC.

Method of Assessment

Students failing to attend mandatory sessions will be reported to the Associate Dean UGME, who will inform the Clerkship Student Evaluation Committee. Each student will receive a warning from the Associate Dean's office. If this warning is ignored the student's attendance record and performance will be considered by the Clerkship Student Evaluation Committee and the student may be failed for the sessions missed. A suitable remedial period may be provided. If the student does not perform satisfactorily in the remedial period the ITC will be failed.

The student must be informed of a recommendation for failure within seven working days of the end of the session. The pass/fail decision will be given by the departmental representative to the Clerkship Student Evaluation Committee. In the case of a failing evaluation the reasons for failure must be documented and submitted to the Clerkship Student Evaluation Committee.

5.3.1.3 ITC Remediation

Failure for inadequate attendance

The coordinator of the module of sessions missed may, with approval of the Director, Clerkship Curriculum, provide the student with a remedial course, of comparable educational experience in that subject; the student will have to attend and perform satisfactorily to pass the ITC.

5.3.1.4 The Major Clinical Clerkships

Method of Assessment

The evaluation of the students during the clinical clerkship rotations may be assessed by review of clinical performance, written examinations, and projects.

Clinical Performance

The objectives of the Clerkship Program are consistent with the Undergraduate Medical Education Objectives found [online](#)

The Midpoint In-Training Report (MITER) is a formative assessment in rotations of four weeks or longer. The student uses this report to complete a self-assessment which is then discussed with the student's preceptor. If a student's early performance is likely to lead to a failure, the Clerkship Director must advise the student of an impending failure by the midway point of the rotation. In such cases, the student must be given help to improve performance to the expected standard. The Clerkship Director, or designate, will collect preceptor assessments throughout the rotation. The Clerkship Director, or designate, will use all assessments to make a final decision on the student's performance at the end of the rotation in that

department. A Final In-Training Evaluation Report (FITER) of each student's achievement of these objectives will be completed for each rotation.

A failing student must be informed of the failure by the Clerkship Director, or designate, preferably before the end of the rotation but not later than seven working days after the rotation is complete. All results will be submitted to the undergraduate committee of the department, who, for a failure, will review all the assessments and preceptors' pass/fail assessments and determine the overall pass/fail standing for the student during the rotation in question.

The pass/fail recommendation, with the FITER and any supporting evidence for that decision, will be submitted by the departmental representative to the Clerkship Student Evaluation Committee. The pass/fail decision will be reviewed and affirmed if there is a majority vote of the members of Clerkship Student Evaluation Committee present at the first meeting of the Clerkship Student Evaluation Committee following the completed rotation. In the case of a tie, the chair of Clerkship Student Evaluation Committee will have the deciding vote, otherwise he or she will not vote.

On occasions, Progress Committee may deem it necessary to forward feed student summative assessment information to subsequent Clerkship Directors, or designates. In such instances, the student will be informed and the process will follow that outlined in the Forward Feeding Policy and Procedures found [online](#)

Clerkship Written Examinations

Students will take the National Board of Medical Examiners (NBME) subject examinations at the end of the following clerkship periods: Obstetrics/ Gynaecology, Paediatrics, Psychiatry, and Surgery. For Internal Medicine, the NBME examination will take place after the Internal Medicine Selective rotation. For Core Surgery the NBME examination will take place following the major surgery rotation. The passing standard for National Board Exams will be the 11th percentile of the entire reference group. Students failing a NBME examination will re-sit this examination as outlined in the Supplemental Examination Policy found [online](#)

5.3.1.5 The Comprehensive Clinical Examination (CCE)

The goal of the Comprehensive Clinical Examination (CCE) is to objectively assess student clinical competence in generic skills of data collection, interpersonal relationships, along with the content of the case for diagnosis, investigation, and management of common clinical problems. This examination frequently uses standardized patients to test these clinical skills. The CCE committee is a sub-committee of the Clerkship Student Evaluation Committee and is chaired by the CCE coordinator. The CCE is marked to a standard predetermined by the CCE committee and the results of the examination are submitted to the Clerkship Student Evaluation Committee.

5.3.1.6 The Multiple Specialty Rotation in Clerkship (MSR)

Method of Assessment

The assessment of students during each component of the MSR clerkship rotation includes assessments of attendance, performance and could include College prepared examinations. Students will be expected to attend all clinical, small group, and laboratory sessions. Clinical performance will be judged, where applicable, as in the major clerkships. The Clerkship Director, or designate, must advise each student by the midway point of each component of the rotation if his or her performance is likely to lead to a failing assessment in that component. In such cases, the student must be given help to improve performance to the expected standard. The Clerkship Director, or designate, will use all assessments to make a final decision on the student's performance at the end of each component of that rotation. A failing student must be informed of the failure by the preceptor, Clerkship Director, or designate preferably before

the end of the rotation but not later than seven working days after the rotation is complete. All results will be submitted to the undergraduate committee of the department, who, in the case of a failure will review all the assessments and preceptor(s) pass/fail assessments to determine the overall, pass/ fail standing for the student in that department.

5.3.1.7 The Elective Periods

Method of Assessment Electives are evaluated in a similar manner to other clerkship rotations and students are required to obtain a completed elective assessment form for every elective pursued. These evaluations will be reviewed by the Director, Electives, and unsatisfactory assessments will be submitted to the Clerkship Student Evaluation Committee.

5.3.1.8 Remediation during Clerkship

A student who has received a failing FITER on a non-elective clinical rotation, shall be required to meet with the Director, Remediation for a remediation assessment. Remediation during the clerkship is typically scheduled during electives or other time as determined suitable by the College. The Director, Remediation in consultation with the Clerkship Director, or designate will coordinate this remediation, which will include further clinical experience. The policy and procedures governing remediation may be found [online](#)

Clerkship Clinical Performance Remediation

The Clerkship Student Evaluation Committee will provide the student who has failed a clinical rotation an appropriate remedial period with the department in which the rotation was failed. The rotation will be an equivalent educational experience to the clerkship failed, and its goal will be to assist the student to reach the expected standard of clinical competence. A similar process of evaluation will be used. The remedial rotation will usually be taken during an elective period.

Remediation for NBME Examination Failures

Students failing any two NBME examinations (in the same subject or different subjects) will be required to meet with the Director, Remediation for remediation assessment. The policy and procedures governing remediation may be found [online](#). Where a student has failed two successive NBME examinations in the same subject, the student will be required to complete a remedial period of training from the relevant. The Director, Remediation in conjunction with the Clerkship Director, or designate, will coordinate the remediation; further clinical experience may be needed to meet that purpose. Such a remedial period will be a maximum of four weeks and will usually be taken in an elective period, and followed by a third attempt at the National Board examination.

Remediation for Failure in the CCE

The Clerkship Student Evaluation Committee will devise an appropriate remedial period which will take into account the areas of weakness demonstrated by the CCE and will usually be taken during elective time. This remediation will be assessed by a clinical assessment and may include an oral and/or written exam.

Remediation for an MSR Clerkship Failure

The Clerkship Student Evaluation Committee will provide the student who has failed a clinical component of the MSR with a remedial period in the department in which the rotation was failed. This period is flexible but can be up to the same length as the failed rotation. Such a remedial rotation will be an equivalent educational experience to that failed and its goal will be for the student to reach the expected standard of clinical performance. A similar process of assessment will be used and may be supplemented by a

clinical oral and/ or written examination if the department deems it necessary. The remedial will usually be taken in an elective period.

Remediation for an Electives Failure

The Clerkship Student Evaluation Committee will devise a remedial period of up to four weeks which will take into account the areas of weakness revealed by the student's elective evaluation. This will be taken in the next available free time for the student. The remedial period will be evaluated by clinical assessment.

5.3.1.9 Failure of a Student in the Clerkship Program

The Clerkship Program is a continuum held over Year 3 and Year 4. A failure of the Clerkship Program is considered to be a failure of one year, see Section 3 Academic Regulations, above.

Failure of the Clerkship

The student will be determined to have failed the Clerkship Program if:

1. Failure of Clinical Assessments

The student has received failing assessments in one or more of the following:

a) Two major clerkships in different disciplines (Internal Medicine, Internal Medicine Selective, Surgery, Surgery Selective, Paediatrics, Obstetrics/ Gynaecology, Psychiatry, and Family Medicine)

OR

b) One major clerkship and:

- i) its remedial, or
- ii) an ITC remedial, or
- iii) an MSR remedial, or
- iv) an elective remedial

OR

c) Remedials in two of the following:

- i) Anesthesia
- ii) Emergency Medicine
- iii) Otolaryngology
- iv) Ophthalmology
- v) Community Health Sciences
- vi) Elective
- vii) ITC

2. Failure of Examinations

The student has failures in one or more of the following:

a) A single NBME subject examination three times

OR

b) A total of five NBME examinations

OR

c) The CCE after remediation

3. Remediation Related Failures

If the remediation period recommended for a student, for whatever cause, requires more than eight weeks, then the student will be deemed to have failed the Clerkship Program.

Complete information related to promotion and failure in any year of the Undergraduate Medical Education program can be found in the Undergraduate Medical Education Promotion and Failure Policy and Procedures [online](#)

5.3.1.10 Terms for the Repeat Clerkship

A student who fails the Clerkship Program, be it because of failure of clinical assessments, failure of examinations, or failure of remediation (as above), immediately ceases in the program, and will be required to repeat the Clerkship Program. The Repeat Clerkship will consist of the following, at a minimum: Six-week rotations in each of Core Internal Medicine, Core Surgery, Paediatrics, Family Medicine, Psychiatry, and Obstetrics/Gynaecology, plus 12 to 16 weeks of electives. A student in the Repeat Clerkship will also be required to complete the ACLS course (0.5 weeks), the LMCC refresher course (4.5 weeks). The student will be granted 3 weeks for CaRMs interviews and two weeks for vacation. Furthermore, if the failure occurred prior to the completion of the Medicine Selective, Surgery Selective, Multiple Specialty Rotation (MSR), or Community Health Sciences Project, then these will be required components of the Repeat Clerkship as well. The student must satisfactorily meet all clinical assessments, examinations, the CCE, as well as remedial rotations (as appropriate), regardless of whether they had been passed previously. The terms of the Repeat Clerkship will be submitted to the Progress Committee for review and final approval.

5.3.1.11 Terms for Failure of the Repeat Clerkship

The terms for failure of the Repeat Clerkship are the same as listed above in 5.3.1.9 "Failure of a Student in the Clerkship Program." A student who has failed the Repeat Clerkship will be required to withdraw from the Max Rady College of Medicine program.

5.3.2 For Students beginning Clerkship on August 2013 or later:

During the clerkship years students will be assessed on their competence and this will include assessment of their cognitive knowledge and understanding, clinical skills, problem solving and judgement, technical skills, interpersonal attributes and general professional responsibility. Assessment will be the responsibility of the Clerkship Student Evaluation Committee (CSEC).

5.3.2.1 Methods of Summative Evaluation (General)

The policy and procedures applicable for evaluation are:

- [Examination Conduct Policy](#)
- [Examination Results Policy](#)
- [Deferred Examinations Policy](#)
- [Examination Accommodation Procedures](#)

Various methods will be used to assess students, including the final evaluation reports (FITERs); written external NBME examinations and OSCE-type exams. Student performance for assessment purposes during examinations may be recorded in writing, orally, by computer, by audio or by videotaping. All material necessary to generate the mark such as papers,

computer records and tapes will be destroyed once the student has passed that evaluation. Such material can be of help to a student needing remediation before the examination.

To achieve this quality assurance, the CSEC may use direct observation or indirect observation by audio and video monitoring. Quality assurance material is subject to the aforementioned regulations of the university and the College. Furthermore, this material, which could identify the individual student will not be released to anyone, other than the Dean and Clerkship Student Evaluation Committee, without the written consent of the student.

5.3.2.2 The Transition to Clerkship (TTC)

The goal of Transition to Clerkship (TTC) is to prepare the student for clerkship rotations. Students will be assessed for attendance and performance in learning groups. The purpose of student assessment in TTC is to ensure that students are ready to begin the clerkship rotations.

Readiness for clerkship must be demonstrated in many areas including: basic medical knowledge and its application; clinical skills in evaluating patients; analysis of clinical data; problem identification and diagnosis; planning of investigation; planning of management and therapy; relationships to patients and staff. These attributes will be evaluated in a variety of ways throughout TTC.

Method of Assessment

Students failing to attend mandatory sessions will be reported to the Associate Dean UGME, who will inform the Clerkship Student Evaluation Committee. Each student will receive a warning from the Associate Dean's office. If this warning is ignored the student's attendance record and performance will be considered by the Clerkship Student Evaluation Committee and the student may be failed for the sessions missed. A suitable remedial period may be provided. If the student does not perform satisfactorily in the remedial period the TTC will be failed.

The student must be informed of a recommendation for failure within seven working days of the end of the session. The pass/fail decision will be given by the departmental representative to the Clerkship Student Evaluation Committee. In the case of a failing evaluation the reasons for failure must be documented and submitted to the Clerkship Student Evaluation Committee.

5.3.2.3 TTC Remediation

Failure for inadequate attendance

The coordinator of the block of sessions missed may, with approval of the Director, Clerkship Curriculum, provide the student with a remedial course, of comparable educational experience in that subject; the student will have to attend and perform satisfactorily to pass the TTC.

5.3.2.4 The Major Clinical Clerkships

5.3.2.4.1 The Major Clinical Clerkships for students Beginning Clerkship in August 2013 are:

- Family Medicine
- Internal Medicine
- Internal Medicine Selective
- Surgery
- Surgical Specialties

- Musculoskeletal Rotation
- Obstetrics/Gynecology
- Pediatrics
- Psychiatry

5.3.2.4.2 The Major Clinical Clerkships for students Beginning Clerkship in August 2014 or later are:

- Family Medicine
- Internal Medicine
- Surgery (Surgical Specialties is a part of this rotation.)
- Obstetrics/Gynecology
- Pediatrics
- Psychiatry
- Anaesthesia
- Emergency Medicine

Method of Assessment

The assessment of the students during the clinical clerkship rotations may be assessed by review of clinical performance, written examinations, and projects.

Clinical Performance

The objectives of the Clerkship Program are consistent with the Undergraduate Medical Education Objectives found [online](#)

The Midpoint In-Training Report (MITER) is a formative assessment in rotations of four weeks or longer. The student uses this report to complete a self-assessment which is then discussed with the student's preceptor. If a student's early performance is likely to lead to a failure, the Clerkship Director must advise the student of an impending failure by the midway point of the rotation. In such cases, the student must be given help to improve performance to the expected standard. The Clerkship Director, or designate, will collect preceptor assessments throughout the rotation. The Clerkship Director, or designate, will use all assessments to make a final decision on the student's performance at the end of the rotation in that department. A Final In-Training Evaluation Report (FITER) of each student's achievement of these objectives will be completed for each rotation.

All results will be submitted to the undergraduate committee of the department, who, for a failure, will review all the assessments and preceptors' pass/fail assessments and determine the overall pass/fail standing for the student during the rotation in question.

The pass/fail recommendation, with the FITER and any supporting evidence for that decision, will be submitted by the departmental representative to the CSEC. The pass/fail decision will be reviewed and affirmed if there is a majority vote of the members of CSEC present at the first meeting of the CSEC following the completed rotation. In the case of a tie, the chair of CSEC will have the deciding vote, otherwise he or she will not vote.

On occasions, Progress Committee may deem it necessary to forward feed student summative assessment information to subsequent Clerkship Directors, or designates. In such instances, the student will be informed and

the process will follow that outlined in the Forward Feeding Policy and Procedures found [online](#)

Clerkship Written Examinations

Students will take the National Board of Medical Examiners (NBME) subject examinations at the end of the following clerkship periods: obstetrics/gynaecology, paediatrics, family medicine and psychiatry. For internal medicine, the NBME examination will take place after the internal medicine/emergency medicine block. For surgery, the NBME examination will take place after the surgery/anesthesia block. The passing standard for National Board Exams will be the 11th percentile of the entire reference group. Students failing a NBME examination will re-sit this examination as outlined in the [Supplemental Examination Policy](#)

5.3.2.4.3 The Major Clinical Clerkships

As an alternative to the tradition block rotation described above, students will have the opportunity to apply for the Brandon Longitudinal Integrated Clerkship (LInC). This clerkship will cover the same clinical presentations and academic material of the traditional block rotation. Moreover, the program will be delivered in a longitudinal fashion with students getting exposure to the major clinical areas multiple times throughout the year. In the family medicine portion of the clerkship students will be exposed to the same preceptors over the course of the entire year for approximately one day a week including small communities around Brandon.

Evaluation and examinations will be the same as the traditional block rotation. The primary benefits of this form of clerkship are to allow students to develop relationships with preceptors, and to provide an exposure to medicine in a rural setting. Opportunities to get more one on one and hands on experience will be enhanced in this environment.

5.3.2.5 The Comprehensive Clinical Examination (CCE)

The goal of the Comprehensive Clinical Examination (CCE) is to objectively assess student clinical competence in generic skills of data collection, interpersonal relationships, along with the content of the case for diagnosis, investigation, and management of common clinical problems. This examination frequently uses standardized patients to test these clinical skills. The CCE committee is a sub-committee of the CSEC and is chaired by the CCE coordinator. The CCE is marked to a standard predetermined by the CCE committee and the results of the examination are submitted to the CSEC.

5.3.2.6 The Minor Clinical Clerkships

5.3.2.6.1 The Minor Clinical Clerkships for Students beginning Clerkship in August 2013 are:

- Emergency Medicine
- Anesthesia
- Public Health
- Electives

5.3.2.6.2 The Minor Clinical Clerkships for Students beginning Clerkship in August 2014 are:

- Internal Medicine Selective
- Musculoskeletal Rotation
- Public Health

- Electives

5.3.2.6.3 The Minor Clinical Clerkships for Students beginning Clerkship in August 2015 or later are:

- Internal Medicine Selective
- Musculoskeletal Rotation
- Any of the assessments integral to the Population Health Course or Professionalism Course (if applicable)
- Public Health
- Evidence-Based Medicine Practice Course
- Electives
- Transition to Residency Selectives

Method of Assessment

The assessment of the students during the clinical clerkship rotations may be assessed by review of clinical performance, written examinations, and projects..

Clinical Performance

The objectives of the Clerkship Program are consistent with the Undergraduate Medical Education Objectives found [online](#).

The Midpoint In-Training Report (MITER) is a formative assessment in rotations of four weeks or longer. The student uses this report to complete a self-assessment which is then discussed with the student's preceptor. If a student's early performance is likely to lead to a failure, the Clerkship Director must advise the student of an impending failure by the midway point of the rotation. In such cases, the student must be given help to improve performance to the expected standard. The Clerkship Director, or designate, will collect preceptor assessments throughout the rotation. The Clerkship Director, or designate, will use all assessments to make a final decision on the student's performance at the end of the rotation in that department. A Final In-Training Evaluation Report (FITER) of each student's achievement of these objectives will be completed for each rotation.

All results will be submitted to the undergraduate committee of the department, who, for a failure, will review all the assessments and preceptors' pass/fail assessments and determine the overall pass/fail standing for the student during the rotation in question.

The pass/fail recommendation, with the FITER and any supporting evidence for that decision, will be submitted by the departmental representative to the CSEC. The pass/fail decision will be reviewed and affirmed if there is a majority vote of the members of CSEC present at the first meeting of the CSEC following the completed rotation. In the case of a tie, the chair of CSEC will have the deciding vote, otherwise he or she will not vote.

On occasions, Progress Committee may deem it necessary to forward feed student summative assessment information to subsequent Clerkship Directors, or designates. In such instances, the student will be informed and the process will follow that outlined in the Forward Feeding Policy and Procedures found [online](#).

5.3.2.7 The Transition to Residency (TTR)

The goal of the Transition to Residency (TTR) is to prepare students for residency programs. Students will be assessed for performance on

TTR selectives and in the Evidence-Based Medicine Practice Course. Attendance is mandatory for TTR.

Method of Assessment

Students failing to attend mandatory sessions will be reported to the Associate Dean UGME, who will inform the CSEC. Each student will receive a warning from the Associate Dean's office. If this warning is ignored the student's attendance record and performance will be considered by the CSEC and the student may be failed for the sessions missed. A suitable remedial period may be provided if determined appropriate by the College. If the student does not perform satisfactorily in the remedial period the TTR will be failed.

The TTR selectives and Evidence-Based Medicine Practice Course will be assessed by FITER.

The student must be informed of a recommendation for failure within seven working days of the end of the session. The pass/fail decision will be given by the departmental representative to the CSEC. In the case of a failing evaluation the reasons for failure must be documented and submitted to the CSEC.

5.3.2.8 Remediation during Clerkship

A student who has received a failing FITER on a clinical rotation, shall be required to meet with the Director, Remediation for a remediation assessment. Remediation during the clerkship is typically scheduled during electives or other time as determined suitable by the College. The Director, Remediation in consultation with the Clerkship Director, or designate will coordinate this remediation which will include further clinical experience. The policy and procedures governing remediation may be found [online](#).

Clerkship Clinical Performance Remediation

The CSEC will provide the student who has failed a clinical rotation an appropriate remedial period with the department in which the rotation was failed. The rotation will be an equivalent educational experience to the clerkship failed, and its goal will be to assist the student to reach the expected standard of clinical competence. A similar process of assessment will be used. The remedial rotation will usually be taken during an elective period.

Remediation for NBME Examination Failures

Students failing any two NBME examinations (in the same subject or different subjects) will be required to meet with the Director, Remediation for a remediation assessment. Where a student has failed two successive NBME examinations in the same subject, the student will be required to complete a remedial period of training from the relevant rotation. The Director, Remediation in conjunction with the Clerkship Director, or designate, will coordinate the remediation; further clinical experience may be needed to meet that purpose. Such a remedial period will be a maximum of four weeks and will usually be taken in an elective period, and followed by a third attempt at the National Board examination.

Remediation for Failure in the CCE

The CSEC will devise an appropriate remedial period which will take into account the areas of weakness demonstrated by the CCE and will usually be taken during elective time. This remediation will be evaluated by a clinical assessment and may include an oral and/or written exam.

5.3.2.9 Failure of a Student in the Clerkship Program

The Clerkship Program is a continuum held over Year 3 and Year 4. A failure of the Clerkship Program is considered to be a failure of one year, see Section 3 Academic Regulations, above.

Failure of the Clerkship

The student will be determined to have failed the Clerkship Program if:

1. Failure of Clinical Assessments

The student has received failing evaluations in one or more of the following:

a) Two major clerkships in different disciplines

OR

b) One major clerkship and:

i) its remedial, or

ii) a TTC remedial, or

iii) a remedial of a minor clerkship

OR

c) Remedials in two of the following:

i) A minor clerkship

ii) TTC

2. Failure of Examinations

The student has failures in one or more of the following:

a) A single NBME subject examination three times

OR

b) A total of five NBME examinations

OR

c) The CCE after remediation

3. Remediation Related Failures

If the remediation period recommended for a student, for whatever cause, requires more than ten weeks, then the student will be deemed to have failed the Clerkship Program.

Complete information related to promotion and failure in any year of the Undergraduate Medical Education program can be found in the Undergraduate Medical Education [Promotion and Failure Policy and Procedures](#)

5.3.2.10 Terms for the Repeat Clerkship

A student who fails the Clerkship Program, be it because of failure of clinical assessments, failure of examinations, or failure of remediation (as above), immediately ceases in the program, and will be required to repeat the Clerkship Program. The Repeat Clerkship will consist of the following, at a minimum: Six-week rotations in each of Internal Medicine, Surgery, Paediatrics, Family Medicine, Psychiatry, and Obstetrics/Gynaecology, plus up to fourteen weeks of electives. The number of elective weeks may be reduced (from fourteen) by the number of weeks of electives already successfully completed. A student in the Repeat Clerkship will also be required to complete the ACLS course (if not already passed) (0.5 weeks),

the LMCC refresher course (if not already passed) (4.5 weeks). The student will be granted 3 weeks for CaRMs interviews and two weeks for vacation. Furthermore, if the failure occurred prior to the completion of the Medicine Selective, Musculoskeletal Rotation, Emergency Medicine Rotation, Anesthesia Rotation, Population Health course, Professionalism Course, TTR selectives, Evidence-Based Medicine Practice Course, then these will be required components of the Repeat Clerkship as well. The student must satisfactorily meet all clinical assessments, examinations, the CCE, as well as remedial rotations (as appropriate), regardless of whether they had been passed previously. The terms of the Repeat Clerkship will be submitted to the Progress Committee for review and final approval.

5.3.2.11 Terms for Failure of the Repeat Clerkship

The terms for failure of the Repeat Clerkship are the same as listed above in 5.3.2.9 "Failure of a Student in the Clerkship Program." A student who has failed the Repeat Clerkship will be required to withdraw from the Max Rady College of Medicine program.

5.4 Regulations for Students Taking Leave from the Clerkship Program

Students may, for health or personal reasons, withdraw from clinical rotations or take temporary leave. For planned leave, prior permission must be obtained from the Associate Dean, UGME and/or Associate Dean, Student Affairs or designate. For leaves due to sudden or unexpected circumstances, the Associate Dean, UGME, the Director, Clerkship Curriculum, and the Clerkship Director or designate of the rotation must be informed. Written documentation of the reason for leave will be required by the Associate Dean, UGME. The information is confidential to the Associate Dean, UGME and Associate Dean, Student Affairs or designate. Further information please refer to the [Leaves of Absence \(LOA\) Policy](#)

Students who require an extended leave from the Clerkship Program may have a delayed graduation.

If a student misses more than 25% of a rotation, the student will not receive credit for the rotation regardless of the reason. The student will be required to repeat the entire rotation.

Brief periods of leave may be taken upon notification and approval by the Director, Clerkship Curriculum. For complete details on attendance during clerkship please refer to the [Student Attendance Policy](#)

Generally, the Clerkship program is completed in 79 weeks, excluding CaRMS interview time and holiday time. When, due to leaves of absence, a student will take more than 79 weeks, including elective periods, to complete the Clerkship Program the Clerkship Student Evaluation Committee will review the student's record (clinical assessments and examinations) during the Clerkship Program to ensure that the time lost has not compromised the overall achievement of the student.

5.5 Reappraisal and Appeal of Failed Rotations and Examinations

A student who has received a failing grade in any course or on any FITER may be permitted to request a reappraisal of the assessment in accordance with the Reappraisal of Student Assessment Policy found [online](#)

If the student is not accepting of the decision reached by a Reappraisal Committee as outlined in the above stated policy, the student can appeal the decision to the Undergraduate Student Appeals Committee found [online](#)

A student can appeal a decision of the Undergraduate Student Appeals Committee to the Max Rady College of Medicine Student Appeals Committee and a student appeal of the Max Rady College of Medicine

Student Appeals Committee can be brought to the Senate Committee on Student Appeals.

The Max Rady College of Medicine will not accept requests for reappraisal of external examinations. The National Board of Medical Examiners (NBME) provides a *Score Recheck Service*, details of which are posted on the NBME website at: <http://www.nbme.org/Schools/Subject-Exams/score.html>. Students are responsible for the cost of a Score Recheck that may be requested on their behalf by the Max Rady College of Medicine.

SECTION 6: Academic Research in Medical Education

6.1 Intro Medicine

Part of the educational responsibility of the Max Rady College of Medicine is to perform research on innovations and effectiveness in medical education. Whenever students are the research subjects, all such research must have approval from the Max Rady College of Medicine Research Ethics Board. Where students are studied individually their participation will be voluntary. Research findings will not identify individuals.

SECTION 7: Additional Degrees and Research Programs in Medicine

7.1 Bachelor of Science in Medicine (B.Sc. (Med.))

7.1.1 General Information

The Bachelor of Science in Medicine program is offered over two summer terms; following the first and second year of the undergraduate program in Medicine. The B.Sc. (Med) program is designed to provide the undergraduate medical student with an opportunity to gain firsthand experience in medical research. A large variety of basic science, translational and clinical research projects are available for the student to choose from each year.

The program consists of three components with the option of clinical exposure:

- Research project
- Written report
- Dissertation

The program is open to undergraduate students in the Max Rady College of Medicine and, if approved by the B.Sc. (Med) Committee. The work for this degree may be carried out in any department of the Max Rady College of Medicine at the University of Manitoba. This full-time program may not be taken concurrently with the MED II Research program or any part of the medical curriculum nor combined with any other programs such as traveling scholarships. The B.Sc.(Med) Program is only open to students who are in good academic standing and the students must be enrolled in the Max Rady College of Medicine at the University of Manitoba.

To enrol in the B.Sc.(Med) program the student must find a supervisor in any field within the Max Rady College of Medicine. The supervisor must hold a minimum appointment of Assistant Professor within the Max Rady College of Medicine. Together, the student and supervisor submit an application which includes an abstract and project proposal to the B.Sc.(Med) Committee. If the project proposal is accepted by the committee, students are accepted into the B.Sc. (Med) Program and can

then be registered with the university for the B.Sc.(Med) summer sessions. All accepted projects require both a primary supervisor from the Max Rady College of Medicine and a Co-supervisor from any faculty or school at the University of Manitoba. Primary and Co-supervisors must hold a minimum appointment within their academic setting of Assistant Professor. All accepted projects must receive the applicable institutional ethics, biosafety or other approvals prior to commencement of the term. As well, any projects focusing on topics pertaining to indigenous peoples, must be submitted with approval from the appropriate regulatory bodies, such as First Nations and Inuit Branch, etc.

All students are required to present their research findings in both a written report and oral presentation at the conclusion of their second summer. Students are encouraged to produce an interim report due in the second year of their undergraduate training. Students will be evaluated by their Supervisor after the first summer and by the B.Sc.(Med) committee following the completion of the requirements for the B.Sc.(Med) degree. Students will be required to withdraw from the program if they make unsatisfactory progress after the first summer of research.

The B.Sc.(Med) degree will be conferred at the same time as the M.D. degree unless the student, having satisfactorily completed the requirements for the B.Sc.(Med) degree, discontinues the study of Medicine at the University of Manitoba or other approved institution. In this case, the B.Sc. (Med) degree will not be conferred. Students may defer their final dissertation upon approval by the B.Sc.(Med) Director.

The program is on a Pass/Fail basis. Withdrawal from the program (without permission from the Director) outside of the normal voluntary withdrawal time frame will be considered a fail. Authorization for withdrawal while enrolled in the program is through written application to the Director. Withdrawal without permission will result in a Fail grade.

7.1.2 Program Fees

The program fees will be additional to the Max Rady College of Medicine tuition fees. Program fees change annually.

7.1.3 Program terms

The program runs for 2 summer terms. Each term is generally between 12 and 13 weeks (subject to Max Rady College of Medicine schedule). Students are entitled to a 2 week paid vacation during each term (to be scheduled with project supervisor).

7.1.4 Stipendiary Support

Students receive stipendiary support for each term. Presently support is in the amount of \$7500.00 per term.

7.1.4 Optional Clinical Exposure

If chosen, students are entitled to a minimum of 48 hours of in-clinic exposure over the two summers of the BSc (Med) Program.

7.2 MD/PhD Program

7.2.1 Purpose

The MD/PhD Program in the Max Rady College of Medicine is designed to produce academic clinician scientists who are interested in a career that combines both research and clinical medicine, providing them advanced clinical, academic and research skills.

7.2.2 Duration

The minimum program of study is the total required by the Max Rady College of Medicine for the MD program (4 years) plus the minimum requirements of the Faculty of Graduate Studies (normally two years beyond the level of the Master's degree, or three years beyond the level of a Bachelor's degree; see FGS Academic Guide, 5.5.1). Typically, students undertake a 3-6 year research training interval to successfully complete doctoral training. Most students complete training in 4-5 years. Students who obtained advanced/graduate training prior to admission may be granted advanced standing. Students will be considered to be full-time graduate students throughout the entire period. They then return to third year Medicine to begin Clerkship full time.

7.2.3 Eligibility

Medical Students are eligible to apply upon initial admission to Medicine and at any time during the first two years of the MD program. Eligibility criteria should be reviewed on the Advanced Degree website: http://umanitoba.ca/faculties/medicine/research/grad_undergrad/6696.html

7.2.4 Application Process

Potential applicants should carefully review full details on the application process posted on the program website. Students wishing to apply should contact the Director of the Program early in the process. Acceptance will minimally require: 1) identification of a supervisor (within a department at the University of Manitoba which has an approved PhD program) who has adequate resources for the research expenses necessary for proposed program of study and whose department recommends acceptance, 2) submission of application dossier to the Program Admissions and Advisory Committee (PAAC) and their recommendation for acceptance and 3) acceptance by the Faculty of Graduate Studies.

7.2.5 Program Fees

The total tuition fees payable are the sum of the fees required for the MD and PhD programs of study. Continuing fees (Faculty of Graduate Studies) are also applicable. MD/PhD trainees that remain in good standing receive renewable stipend funding of \$25,000 per annum for up to 6 years, or until successful defense and submission of their approved final PhD thesis. The stipend is terminated once the student has successfully defended their thesis and submitted the final corrected version to the Faculty of Graduate Studies. The 6 years of support is NOT lengthened by any years of support the student receives external to the program.

7.2.6 Administration

After initial assessment of the complete application dossier by the Advanced Degrees in Medicine Program Director, the program advisory and admission committee (PAAC), chaired by the Program Director, reviews all eligible applications and makes a recommendation to the Faculty of Graduate Studies. The Program will: 1) review whether adequate resources are available for delivery of the program, 2) be a liaison with the trainee's host research department, the Max Rady College of Medicine, and Faculty of Graduate Studies, and 3) review the Advisory Committee composition/function and monitor student progress.

7.2.7 Coursework

The minimum course requirements of the Faculty of Graduate Studies, as defined by individuals host research department supplementary regulations, are applicable in addition to the normal curriculum of undergraduate medical studies.

7.2.8 Research/Thesis Requirements

The quality and quantity of research supporting the thesis shall be consistent with that required for all other doctoral candidates in the field.

7.2.9 Additional Program Elements: Seminar Series and Research Progress Evaluations

Expectations for both the student and advisor are outlined in the Advisor Student Guidelines- Thesis/Practicum Programs, which must be reviewed and signed prior to any research. Students are required to regularly attend the designated research seminar series or journal clubs organized by the host research department. Students are also encouraged to seek out professional development opportunities offered by the host research department or University encompassing topics including effective writing, teaching training, and academic integrity. Students will be assessed a minimum of once per academic year, as per FGS guidelines. Students are required to prepare semi-annual updates for distribution to their advisory committee and the program director. Starting in the second year of the PhD training, trainees are eligible to receive up to \$1000 funding per year towards attending and presenting their research at national or international conferences.

7.2.10 Conferment of the Dual Degrees of MD/PhD

Normally the graduate degree is conferred on the next available date after successful defense of the thesis and submission of the final approved thesis. For simultaneous conferral of both the MD and graduate degree, an application for notification of delayed convocation must be made to and approved by the Faculty of Graduate Studies.

7.3 MD/MSc Program

7.3.1 Purpose

The combined-degree MD/MSc Program in the Max Rady College of Medicine is designed to begin development of academic clinician scientists by providing them advanced clinical, academic and research skills.

7.3.2 Duration

The minimum program of study is the total required by the Max Rady College of Medicine for the MD program (4 years) plus the minimum requirements of the Faculty of Graduate Studies (the minimum time is equivalent to two academic terms; see FGS Academic Guide, 4.4.7). Completion of most programs requires more than this and students should review the host research department's supplemental regulations regarding specific requirements. Students who obtained advanced/graduate training prior to admission may be granted advanced standing. Students will be considered to be full-time graduate students (see (Faculty of Graduate Studies guidelines pertaining to Full-Time Status) throughout the entire period. Typically, following completion of Med II, students undertake at least a 2 year interval away from MD training to undertake and complete MSc training. They may also transfer to the MD/PhD Program. They then return to third year Medicine to begin Clerkship.

7.3.3 Eligibility

Medical Students are eligible to apply upon initial admission to Medicine and at any time during the first two years of the MD program. Eligibility criteria should be reviewed on the Advanced Degree website: http://umanitoba.ca/faculties/medicine/research/grad_undergrad/6696.html

7.3.4 Application Process

Potential applicants should carefully review full details on the application process posted on the program website. Students wishing to apply should contact the Director of the Program early in the process. Acceptance will

minimally require: 1) identification of a supervisor (within a department at the University of Manitoba which has an approved MSc program) who has adequate resources for the research expenses necessary for proposed program of study and whose department recommends acceptance, 2) submission of application dossier to the Program Admissions and Advisory Committee (PAAC) and their recommendation for acceptance, and 3) acceptance by the Faculty of Graduate Studies. The MD MSc program provides the Student Stipend and limited Conference travel expenses for approved applicants.

7.3.5 Program Fees

The total tuition fees payable are the sum of the fees required for the MD and MSc programs of study. Continuing fees (Faculty of Graduate Studies) are also applicable. MD/MSc trainees that remain in good standing receive renewable stipend funding of \$21,000 per annum for time spent actively engaged in full-time research (approximately 2-2.5 years). Trainees are also eligible to obtain up to \$1000 research allowance per year (for up to 2 years) to support: laboratory consumables, applicable software, journal fees, or conference related travel expenses and presentation expenses.

7.3.6 Administration

After initial assessment of the complete application dossier by the Advanced Degrees in Medicine Program Director, the program advisory and admission committee (PAAC), chaired by the Program Director, reviews all eligible applications and makes a recommendation to the Faculty of Graduate Studies. The Assistant Dean, Graduate Studies (Medicine) and the Associate Dean, Faculty of Graduate Studies, are advisory to the Program Director, Advanced Degrees in Medicine. The Program will: 1) review whether adequate resources are available for delivery of the program, 2) be a liaison with the trainee's host research department, the Max Rady College of Medicine, and Faculty of Graduate Studies, and 3) review the Advisory Committee composition/function and monitor student progress.

7.3.7 Coursework

The minimum course requirements of the Faculty of Graduate Studies, as defined by individuals host research department supplementary regulations, are applicable.

7.3.8 Research/Thesis Requirements

The student is required to dedicate their full time to the graduate program to make timely and effective progress towards meeting degree requirements (research and academic) for successful completion. The quality and quantity of research supporting the thesis shall be consistent with that required for all other MSc candidates in the field.

7.3.9 Additional Program Elements: Seminar Series and Research Progress Evaluations

Expectations for both the student and advisor are outlined in the Advisor Student Guidelines- Thesis/Practicum Programs, which must be reviewed and signed prior to any research. Students are required to regularly attend the designated research seminar series or journal clubs organized by the host research department. Students are also encouraged to seek out professional development opportunities offered by the host research department or University encompassing topics including effective writing, teaching training, and academic integrity. Students will be assessed a minimum of once per academic year, as per FGS guidelines. Students are required to prepare semi-annual updates for distribution to their advisory committee and the program director.

7.3.10 Conferment of the Dual Degrees of MD/MSc

Normally the graduate degree is conferred on the next available date after successful defense of the thesis and submission of the final approved MSc thesis. For simultaneous conferral of both the MD and graduate degree, an application for notification of delayed convocation must be made to and approved by the Faculty of Graduate Studies.

SECTION 8: Registration Information

8.1 Initial Registration Access Times

Students in the Max Rady College of Medicine Undergraduate Medical Education Program will be given access time to the registration system (Aurora Student) in July. For instructions on how to register online, please refer to the chapter, "Registration Information: Aurora Student". Registration must be complete prior to the first day of classes.

Each student is registering in the same course for both the **Fall AND Winter** sessions. Med III students will be able to register in their **Summer** session in mid-March. Students are asked to contact the Administrator, Enrolment via email: anna.urbanik@umanitoba.ca or via telephone: (204) 789-3627 if registering difficulties are encountered.

Courses for the Undergraduate Medical Education program are:

| Program & Year | College / School Codes | Terms | Dept. Number & Course Number | Lecture Section | Lab Section |
|----------------|------------------------|--|------------------------------|-----------------|----------------|
| Medicine I | 05 | Fall 2019 and Winter 2020 | UGME 1000 | L01 | Not Applicable |
| Medicine II | 05 | Fall 2019 and Winter 2020 | UGME 2000 | L01 | Not Applicable |
| Medicine III | 05 | Fall 2019, Winter 2020 and Summer 2020 | UGME 3000 | L01 | Not Applicable |
| Medicine IV | 05 | Fall 2019 and Winter 2020 | UGME 4000 UGME 4990 | L01 | Not Applicable |

8.2 Web Registration Exceptions

Students who have a failing grade/s registered against them and/or have other outstanding academic matters (i.e. deferred or supplemental examinations, modified program, etc.) in regards to the previous academic session will not be allowed to register using the web registration system. Students who fall into this category should contact the Administrator, Enrolment at (204) 789-3627 for further information.

Bachelor Science in Medicine and Summer Early Exposure Programs

Students approved to participate in summer enrichment programs will be registered by the College.

8.3 Prior to Registration

New Students: All incoming students must complete an application to the College of Physicians and Surgeons of Manitoba, complete a Heart and Stroke certified course in BLS for Healthcare Providers (HCP-C) and submit the following documentation prior to the first day of class: Immunization records, Adult Criminal Records Check (with Vulnerable Sector search), Child Abuse Registry Self-Check, Adult Abuse Registry Check, Essential Skills and Abilities (Technical Standards) for Admission, Promotion and Graduation in the MD Program, and Accommodation for Undergraduate Medical Students with Disabilities. If you are unable to submit these documents by the first day of class please contact the Administrator, Enrolment via email: anna.urbanik@umanitoba.ca or via telephone: (204) 789-3627.

Returning Students: All returning students must re-certify their CPR in a Heart and Stroke certified course in BLS for Healthcare Providers (HCP-C) and submit a copy of their card to the Max Rady College of Medicine office prior to the first day of class. Returning students must be registered with the College of Physicians and Surgeons of Manitoba by June 30 of each year and must provide current documentation on Adult Criminal Record Check (with vulnerable sector search), Adult Abuse Registry Check and Child Abuse Registry Self-Check prior to the first day of class.

SECTION 9: Biochemistry & Medical Genetics Course Descriptions-3000 Level

BGEN 3022 Introduction to Human Genetics A Cr. Hrs. 3

Introduction to basic principles of human genetics with emphasis on pedigrees analysis, population genetics and cytogenetics. May not be held with the former BGEN 3020.

BGEN 3024 Introduction to Human Genetics B Cr. Hrs. 3

Principles of human genetics with emphasis on clinical applications, including human development, disease treatments, prenatal diagnosis and ethics. May not be held with the former BGEN 3020. Prerequisite: BGEN 3022.

SECTION 9: Biochemistry & Medical Genetics Course Descriptions-4000 Level

BGEN 4010 Project Course in Human Genetics Cr. Hrs. 6

(Formerly 137.401) A research project chosen in consultation with and supervised by a faculty member. A written report is required. The course is available primarily to final year Honours students in the Honours Genetics program. Selection of project and supervision to be arranged prior to September 30 and submitted in writing to department head. Deadline for submission of first draft to supervisor by March 1. Deadline for submission of final draft to supervisor and course coordinator is March 31.

SECTION 9: Human Anatomy & Cell Science Course Descriptions-1000 Level

ANAT 1030 Human Anatomy Cr. Hrs. 3

(Formerly 080.103) To present the essentials of the organization and structure of the human body. Surface, functional and applied anatomy will be taken into consideration. For Pharmacy students only.

SECTION 9: Pharmacology Course Descriptions-4000 Level

PHAC 4030 Drugs in Human Disease I Cr. Hrs. 3

Foundation physiological principles underlying human disease integrated with drug disposition and effects of important drug groups on disorders of the autonomic and central nervous systems, and the cardiovascular system. May not be held with PHAC 4020. Prerequisites: BIOL 2410 (former ZOO 2530) and BIOL 2420 (former ZOO 2540).

PHAC 4040 Drugs in Human Disease II Cr. Hrs. 3

Foundation physiological principles underlying human disease integrated with effects of important drug groups on endocrine and organ system disorders, allergy and inflammation, infection, and cancer. The course also offers an introduction to basic clinical pharmacology as well as several current specialized topics in pharmacology. May not be held with PHAC 4020. Prerequisites: BIOL 2410 (former ZOO 2530) and BIOL 2420 (former ZOO 2540).

SECTION 9: Physiology Course Descriptions-1000 Level

PHGY 1030 Fundamentals of Medical Physiology Cr. Hrs. 6

The function and regulation of the systems and major organs of the human body as they relate to clinical disorders.

SECTION 10: Postgraduate Medical Education

Dean: Brian Postl

Associate Dean(s): (Postgraduate Medical Education): Cliff Yaffe

Campus Address/General Office: 260 Brodie Centre, 260-727 McDermot Avenue, Winnipeg MB R3E 3P5

Telephone: (204) 789-3290

Fax: (204) 789-3929

Email Address: PGME@umanitoba.ca

Website:

http://umanitoba.ca/faculties/health_sciences/medicine/education/pgme/index.html

Postgraduate Medical Education (PGME) at the University of Manitoba is comprised of a variety of training programs for graduated medical students interested in obtaining a higher level of education in Family Medicine or medical specialty. Programs are usually organized to be in one of three categories:

- Programs accredited by the Royal College of Physicians and Surgeons of Canada (RCPS(C)).
- Programs accredited by the College of Family Physicians of Canada (CFPC).
- Other training and fellowship programs approved by the Max Rady College of Medicine.

Programs Accredited by RCPS(C) and CFPC

Programs in the first two categories are most likely to be recognized towards obtaining a license to practice medicine. The RCPSC and CFPC provide accreditation for the training program content and evaluative processes. After the successful completion of their training, candidates are eligible to challenge the appropriate national specialty exams for their particular programs. The complete listing of these programs follows in this section under the heading Description of Programs. The specific and detailed national requirements for individual programs may be obtained from the Postgraduate Medical Education Office.

The PGME Programs at University of Manitoba are accredited on a scheduled basis by the RCPSC and the CFPC. This allows PGME to oversee the training programs and support them in a variety of ways.

Several hospitals and healthcare facilities are used as training sites. The main teaching sites include: Health Sciences Centre, St. Boniface Hospital, Grace General Hospital, Misericordia Hospital (Ophthalmology) and a number of hospitals outside of Winnipeg for distributed education.

General Regulations

Once accepted into a RCPSC specialty or Family Medicine training program the learner (now referred to as a "resident") is registered with University of Manitoba by the Postgraduate Medical Education Office. Registration fees are paid by the Winnipeg Regional Health Authority (WRHA). Each resident is registered every subsequent year of his or her training program by the PGME office. The resident must also register with the College of Physicians and Surgeons of Manitoba (CPSM) so that their name is entered the CPSM Educational Register.

The resident must obtain malpractice insurance, from the Canadian Medical Protective Association or its equivalent. Residents enrolled in postgraduate residency programs are expected to conform to such new requirements as may be adopted from year to year. Residents must apply directly to either the Royal College of Physicians and Surgeons of Canada or the College of Family Physicians of Canada for assessment of training and for permission to sit the college examinations. Being a resident in a program does not automatically enroll the resident for such examination or certification.

Eligibility

Graduates of Canadian medical schools are eligible for consideration of PGME training, and are required to challenge the Medical Council of Canada Qualifying Examination, Part I prior to commencing their residencies.

Generally, Canadian citizens or permanent residents once accepted into the PGME program, are eligible for provincial funding for residency training under the contract established with the Professional Association of Residents and Interns of Manitoba (PARIM).

International Medical graduates (IMGs) are eligible to apply for admission after they have challenged the Medical Council of Canada Evaluating Examination. IMGs must be Canadian or permanent residents to be eligible to apply for postgraduate medical training. IMGs may apply for possible residency positions through the CaRMS match (see below).

Internationally (Visa) Sponsored-trainees represent a special training category for entrance to postgraduate medical training. The Internationally (Visa) Sponsored trainee applicant must pass the Medical Council of Canada Evaluating Examination and be sponsored by an agency which has entered into a contract with the University of Manitoba for such training. All residents must receive remuneration from an institution recognized by the Government of Manitoba while registered in a training program in PGME.

Criteria for Selection

Selection for admission to the various training programs will be made primarily on the basis of scholastic, personal and professional attributes as determined by academic records, personal interviews, letters of reference and in-training evaluation reports. Each particular training program determines the selection process; all programs follow the Best Practices in Application & Selection (BPAS) Report and recommendations endorsed by the Associations of Faculties of Medicine of Canada (AFMC) to ensure appropriate procedures are in place for objective decision-making, transparency, due process and societal responsibility. Admission to the postgraduate training year one (PGY1) for most programs is conducted through the CaRMS PGY1 match outlined below.

The College of Medicine commits to using reasonable accommodations and progressive efforts to ensure that residents with documented disabilities are considered for selection to Residency Programs for which they are academically qualified, ensuring full and safe access to the educational and learning environment and to the University facilities and services.

Other Training and Fellowship Programs

The following post-PhD programs are offered by PGME at the University of Manitoba: Clinical Psychology, Clinical Biochemistry, Clinical Microbiology and Molecular Genetics.

Fellowships are programs of specialized training beyond medical residency offered by different clinical departments. The fellowships are usually one-year in duration.

University Registration

All postgraduate trainees and fellows (not registered with the Faculty of Graduate Studies for M.Sc. or Ph.D. degrees) must be registered as postgraduate trainees in the Max Rady College of Medicine. The normal registration period is June 15 to July 1 each year, and is done by the College PGME Office.

Program Administration

The departments which provide PGME training programs in the Max Rady College of Medicine are: Anesthesia, Community Health Sciences, Family Medicine, Biochemistry and Human Genetics, Emergency Medicine, Internal Medicine, Medical Microbiology, Obstetrics, Gynecology and Reproductive Sciences, Otolaryngology, Pathology, Pediatrics and Child Health, Psychiatry, Radiology and Surgery. Some departments offer more than one program, and may also offer training in sub-specialty areas.

Each program has a Program Director and a Resident Program Committee to administer the training program. There are also Program Administrators at each training site. The Program Director of each program reports both to the Department Head and the Associate Dean of PGME.

Beyond the program level, administrative matters pertaining to postgraduate residency training programs are the responsibility of the Associate Dean for PGME and the College PGME Executive Committee and its subcommittees. These committees are responsible for reviewing programs, allocation of residency positions, hearing resident appeals, and other duties as outlined in the terms of reference for each committee. The committees make recommendations to both the Associate Dean of the Max Rady College of Medicine and the College Postgraduate Executive Committee.

Description of Residency Programs

Residency Programs will generally follow one of two pathways leading to licensure eligibility as described below.

College of Family Physicians of Canada Accredited Programs

The training program for family physicians offers a two-year basic program in outpatient, in-hospital and community settings. This program is composed of several streams (urban, rural, Northern Remote, bilingual and Integrated Care of the Elderly) and the program leads to eligibility for certification with the

College of Family Physicians of Canada (CFPC). A small number of positions are also available from time to time for enhanced training within the Family Medicine Training Program for a third year of training in Emergency Medicine, Anesthesia and Palliative Care, Care of the Elderly, Sports and Exercise Medicine, Cancer Care and Women's Health. Some of these enhanced positions may be associated with a return of service requirement.

Royal College of Physicians and Surgeons of Canada Accredited Programs

The Faculty of Medicine offers a wide range of specialty and sub-specialty programs leading to eligibility for certification with the Royal College of Physicians and Surgeons of Canada. Programs vary in length from 2-7 years of medical training.

| Primary Specialties: | |
|---|--------------------------------------|
| Anatomical Pathology | Anesthesia |
| Cardiac Surgery | Diagnostic Radiology |
| Emergency Medicine | General Surgery |
| Internal Medicine | Medical Genetics |
| Medical Microbiology | Neurology (Adult) |
| Nuclear Medicine | Neurosurgery |
| Obstetrics and Gynecology | Ophthalmology |
| Orthopedic Surgery | Otolaryngology |
| Pediatrics | Physical Medicine and Rehabilitation |
| Plastic Surgery | Psychiatry |
| Public Health and Preventative Medicine | Radiation Oncology |
| Urology | Vascular Surgery |

| Subspecialty Programs* (available only with completion in a primary specialty): | |
|--|---|
| Cardiology (Adult) | Clinical Immunology and Allergy (Child & Adult) |
| Critical Care Medicine (Adult) | Developmental Pediatrics |
| Endocrinology and Metabolism | Emergency Medicine (Child) |
| Gastroenterology | Geriatric Medicine |
| Gynecologic Oncology | Hematology (Child & Adult) |
| Infectious Diseases (Child & Adult) | Maternal and Fetal Medicine |
| Medical Oncology | Neonatal-Perinatal Medicine |
| Nephrology (Child & Adult) | Palliative Medicine |
| Respiratory Medicine (Child & Adult) | Rheumatology (Adult) |

| | |
|------------------|------------------|
| Thoracic Surgery | Vascular Surgery |
|------------------|------------------|

NOTE: These programs require different primary specialty credits, and may not be offered every year at the University of Manitoba.

For learners interested in a career combining health-related research and clinical activities, the University of Manitoba offers a two year Clinician Investigator Program (CIP) sponsored by the RCPSC.

Application Procedures:

All applicants for the PGY1 year of programs accredited by the RCPSC and CFPC must apply through the Canadian Residency Matching Service (CaRMS). All graduates of Canadian medical schools and International medical schools who are Canadian citizens or permanent residents and who have had no prior postgraduate medical training in Canada or the United States are eligible for the CaRMS match.

Applications for positions beyond the entry PGY1 year should be made at the PGME Office, 260 Brodie Centre or to the Program Director for the specific program. Availability of positions will vary from year to year and are not guaranteed for any program. No resident can be accepted unless a funded position is available.

The Canadian Resident Matching Service (CaRMS)

This matching service is an autonomous, national organization of the Association of Canadian Medical Colleges. It provides an orderly method for students to select where to pursue Postgraduate Medical Education and for Program Directors to rank the applicants they wish to enroll. A second matching process (the second iteration) by CaRMS is subsequently available (after the 1st CaRMS match) to medical students not matched in the first iteration, and other medical graduates who have already received some prior postgraduate training. All information about registration and matching processes is available on the CaRMS website: www.CaRMS.ca. There are listings of all programs on their website.

Assessment of Residents in Postgraduate Medical Education Programs

Assessment at all levels is based primarily on clinical performance in the patient care setting. The Program Director and the Residency Program Committee in each program are responsible for the implementation of the assessment process in their own program. At the end of each clinical rotation or at other appropriate stages of the program, each trainee is assessed by an in-training assessment report (ITAR) appropriate to that program and training level. The assessor(s) discusses the assessment with the trainee and the report is forwarded to the Program Director. The ITAR should be signed by the resident to indicate that he or she has seen the report. This ongoing assessment process may be supplemented by written examinations, oral examinations, supervised history and physical examination and by direct observation of clinical and technical skills.

When a resident receives an unsatisfactory assessment or examination result, the Program Director will review the assessment with the resident. Unsatisfactory assessments will also be discussed in a confidential manner at the Residency Program Committee meeting. The committee will make recommendations regarding remedial training. If a subsequent remedial period is also assessed as being unsatisfactory, the Program Director will contact the Associate Dean for Postgraduate Medical Education and the Probation Protocol and Procedure will be instituted. A failed probation period may result in a resident being dismissed from their training program.

The Faculty College Executive Council reserves the right to require any student to withdraw from the program of enrolment when it believes the student to be unsuited, on general considerations of scholarship,

professional fitness or professional conduct for post-graduate medical education. However, the Max Rady College of Medicine does not have a professional unsuitability by-law. The right to require a student to withdraw on the basis of professional unsuitability may arise through the professional unsuitability by-law of the College of Physicians and Surgeons of Canada. This right prevails notwithstanding any other provision in the faculty regulations.

Appeals

The appeals process is available on a number of different levels. A postgraduate trainee who wishes to appeal the results of any aspect of the assessment process must follow the written guidelines established by the PGME Committee and the Max Rady College of Medicine. These guidelines may be obtained from the PGME Office.

Further information on individual Residency Programs and affiliated governing bodies may be found at the following links:

http://umanitoba.ca/faculties/health_sciences/medicine/education/pgme/pgme_programs.html

http://umanitoba.ca/faculties/health_sciences/medicine/education/pgme/external_links.html

Department of Community Health Sciences-Family Social Sciences and Second Degree

Dean: Brian Postl

Email Address: family_social_sciences@umanitoba.ca

Website:

umanitoba.ca/faculties/health_sciences/medicine/units/community_health_sciences/departmental_units/fss/undergraduate/9266.html

Academic Staff:

Please refer to the website at:

umanitoba.ca/faculties/health_sciences/medicine/units/community_health_sciences/departmental_units/fss/undergraduate/9266.html

Admissions into the Family Social Sciences program has been suspended. Students interested in Family Social Sciences are advised to review the [Bachelor of Health Studies](#) (Family Health concentration), which is part of the Interdisciplinary Health Program.

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SECTION 5: Course Descriptions

SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | Years to Complete | *Total Credit Hours |
|--|-------------------|---------------------|
| Bachelor of Human Ecology (Family Social Sciences) | 4* | 120 |
| Bachelor Human Ecology (The After Degree Program in Family Social Science) | 2** | 60 |

*This includes one year (30 credit hours) of study in University 1.

**Approximate as prerequisites must be met in order to progress.

1.2 Available Minors, Options, Concentrations and Streams

| Program | Minor Availability | Options | Streams |
|------------------------|--------------------|-----------------------------|--------------------------------|
| Family Social Sciences | | Yes: Family Social Sciences | Aging and Developmental Health |

| | | | |
|--|--|--|--------------------------------------|
| | | | Child and Youth Developmental Health |
| | | | Family Economic Health |
| | | | Family Violence |
| | | | Social Development |
| | | | Interfaculty Option in Aging |

1.3 Professional Designations

Home economists in Manitoba, and other provinces, are regulated by legislation. Graduates may apply to the Manitoba Association of Home Economists (MAHE) for interim professional home economist (IPHE) status, and subsequently qualify as a professional home economist (PHEC).

SECTION 2: Admission Requirements for Family Social Sciences

Admissions into the Family Social Sciences program has been suspended. Students interested in Family Social Sciences are advised to review the [Bachelor of Health Studies](#) (Family Health concentration), which is part of the Interdisciplinary Health Program..

SECTION 3: Department Academic Regulations

The provisions of the chapter, [General Academic Regulations and Requirements](#), and the chapter, [University Policies](#), apply to all students. In addition, the Bachelor of Human Ecology - Family Social Sciences Degree Program has regulations and requirements, published below, that apply specifically to its students.

3.1 Prerequisite, Corequisite, and Course Availability: Definitions

Prerequisite: If a course is prerequisite to a second course, the prerequisite must be met in order to continue in the second course. The department giving the second course may require a minimum grade of 'C' in the first course to register in the second course. Some inactive (legacy) courses may be used as prerequisites.

Corequisite: If a first course is a corequisite to a second course, the first course (unless previously completed) must be taken in the same term as the second course.

Course Availability: Not all courses listed in this Calendar are offered every year. Students are referred to the on-line calendar for courses offered in the year. Family Social Sciences courses at the 3000 and 4000 level are available only to students registered in the Bachelor of Human Ecology - Family Social Sciences Degree Program or one of the minors or options associated with the Degree Program. Courses at the 3000 and 4000 level may be taken with written permission from an Academic Advisor as long as there is space.

3.2 Scholastic Standards

Graduation and Grade Point Average

To graduate, a student must have passed 120 credit hours acceptable for credit in the current degree program and have obtained a minimum of 240 quality points. This is equivalent to a Degree Grade Point Average of 2.0. A pass indicates a grade of 'D' or better. A student's Degree Grade Point

Average (DGPA) will be determined from the number of effective courses which apply at a particular stage. The effective courses consist of all courses passed, in addition to all failures which have not been cleared, or substituted for, in the student's record. A maximum of 150 credit hours (25 courses or the equivalent) may be attempted in order to obtain the 120 credit hours.

Assessment

The status of each student will be assessed in May of each year in which a student is registered. All Direct Entry students will be assessed formally upon completion of at least 24 credit hours in May of each year using the Bachelor of Human Ecology - Family Social Sciences Degree Program assessment standards. Assessments can include the following comments:

- Faculty minimum met (grade point average meets the standards listed below);
- Dean's Honour (see 3.9)
- Academic Warning
- Probationary status (see below)
- Suspension (see below)
- Suspension - all attempts used (see below)

Academic warning indicates a grade point average between the minimum required at the effective credit hours (year) and the DGPA requirement of 2.0.

There is a maximum of 30 credit hours of attempts allowed for each academic program; once those attempts are used (repeated courses, grades of F or D), it is impossible to graduate.

Probationary Standing

Students must achieve or exceed the following standards at the specified stages in their academic careers. Failure to obtain the standard results in probation. Once placed on probation, students who fail to meet the appropriate performance level at the next assessment following the next registration will be academically suspended. A student is not permitted to be on probation for two consecutive years.

| Assessment Standards | | |
|---|-----------------------------|------------------|
| Bachelor of Human Ecology Family Social Sciences Degree Program | | |
| Effective Credit Hours | Minimum Grade Point Average | |
| 9 – 21 credit hours | < 2.0 | Academic Warning |
| 24 – 30 credit hours | 1.80 | |
| 33 – 60 credit hours | 1.85 | |
| 63 – 90 credit hours | 1.90 | |
| 93 – 117 credit hours | 1.95 | |
| 120+ credit hours | 2.0 | |

Suspension

Suspended students must remain out of the Bachelor of Human Ecology - Family Social Sciences Degree Program for one academic year from the date of suspension and must apply for reinstatement at the Admissions Office no later than May 1.

Where mathematically possible for a suspended student to complete the degree by repeating failed courses, a suspended student shall be automatically reinstated after remaining out of the Degree Program for one calendar year, or by achieving a degree GPA above the probationary standard.

Suspension (All Attempts Used)

Where it is mathematically impossible for a student to complete the degree by repeating failed courses, a suspended student, after remaining out of the faculty for one calendar year, may attempt reinstatement. By completing at least 12 credit hours in one term with a minimum 'D' grade in all courses and a term grade point average of at least 2.0, the student will be reinstated. The student will start the program afresh, with previous grades of 'C' or better applicable to the program.

3.3 Part-time Students

The maximum time allowed for completion of the degree is 10 years. After completion of 24 credit hours, part-time students will be evaluated each May and must conform to the minimum performance levels.

3.4 Direct Entry

Admissions into the Family Social Sciences program has been suspended. Students interested in Family Social Sciences are advised to review the [Bachelor of Health Studies](#) (Family Health concentration), which is part of the Interdisciplinary Health Program.

Current Direct Entry students will be assessed formally upon completion of at least 24 credit hours in May of each year using the Bachelor of Human Ecology Family Social Science Degree Program's assessment standards. Probationary standing is assessed using the criteria listed. Direct Entry students who complete fewer than 24 credit hours by May of their first year will not be formally assessed until the following May. Students who complete 9 - 21 credit hours with a grade point average of less than 2.0 will be placed on academic warning.

3.5 Repeating Courses

A student may repeat any course for the purpose of attaining a better grade. A course or its equivalent that is repeated in Fall 2016 or later will have the highest grade count. There are no supplemental examinations for students who have failed final or deferred examinations.

3.6 Challenge for Credit

A student wishing to challenge a course for credit should contact an Academic Advisor. Letter grades are granted upon completion of the course that is challenged for credit. A list of courses for challenge is available in the Advising Office. An application is required.

3.7 Transfer of Credit

See the chapters on [Admissions and Academic Regulations and Requirements](#) at the beginning of this *Calendar*.

3.8 Appeals of Academic Regulations

The Committee on Student Standing considers petitions from students who request special consideration with respect to rules and regulations governing their programs of study and qualification for graduation.

3.9 Dean's Honour List

Eligible students who achieve a term Grade Point Average of 3.5 or higher in at least 12 credit hours per term will be included in the Deans Honour List.

3.10 Degree with Distinction

Students who graduate with a degree GPA of 3.75 and higher will receive a degree with distinction.

3.11 Work Permit for Study Purposes

International students who are registering for courses or programs that require work placement must obtain a valid **Work Permit**, in addition to maintaining a valid Study Permit. Work placement includes, but is not limited to, any **paid or unpaid** practicum, internships, work experience, field placement, and co-op programs that are a required component for the completion of their degree, diploma or certificate. Please contact your program advisor or the [International Centre for Students](#) for further information.

3.12 Release and Indemnification Forms

In elective courses, students may be required to sign a release form for off-campus activities.

3.13 Written English and Mathematics Requirements

The written English and Mathematics requirements are satisfied by required courses HNSC 2000 (former HMEC 2000) and STAT 1000 within the Bachelor of Human Ecology Family Social Science Degree Program. HNSC 2000 will be available to students upon admission to the Degree.

SECTION 4: Program and Graduation Requirements

Introduction

For students entering the Bachelor of Human Ecology - Family Social Sciences Degree Program:

In order to qualify for a degree, students must complete the 120 credit hours specified for the selected program. Elective choices provided in each program can permit students to transfer between them; however, this opportunity decreases as student's progress. Students who transfer to another program must meet the full requirements of that program. There is a quota in effect for intake to each program per academic year. The quota may affect movement into a program after the September intake.

4.1 Advisement

The Bachelor of Human Ecology Family Social Sciences Degree Program will provide entering students with orientation information and will refer a student to a program advisor if the student requests. All returning students in the Degree Program must submit a program plan for the succeeding year before the start of registration.

4.2 Faculty Program Requirements

The following are the guidelines for the program requirements in the Degree Program. The courses outlined in the sections which follow, meet these basic requirements.

Admitted in September 2015 or Later:

All students complete a Degree Program core of 9 credit hours consisting of:

| Course Number | Course Name |
|------------------------------|---|
| HEAL 2600 | Integration of Health Determinants of Individuals |
| HNSC 2000 (former HMEC 2000) | Research Methods and Presentation |
| HNSC 3000 (former HMEC 3000) | Introduction to Social Epidemiology |

- Plus a minimum of 51 additional credit hours within the Degree Program;
- Plus a minimum of 27 additional credit hours outside the Degree Program of which at least 6 credit hours must be from the Faculty of Science and six from the social sciences;
- Plus a minimum of 12 additional credit hours of free electives leading to a degree requirement of 120 (123) credit hours.
- Notes:
- Students admitted before September, 2005 and graduating after May, 2005, will make the following program adjustments:
- Family Social Sciences students must complete an additional 3 credit hours of FMYL electives at the 3000-4000 level.
- Students admitted between September 2005 and September 2015 are urged to seek academic advising assistance for advice regarding completion of core course requirements.

4.3 Program Electives

Courses within each program fall into one of three categories:

- Program electives must be chosen from within the program department.
- Outside electives must be chosen from a Faculty other than the Bachelor of Human Ecology Family Social Sciences Degree Program.
- Free electives may be chosen from within or outside the Degree Program.

4.4 Family Social Sciences

Head: Stephen Moses - Community Health Sciences

Applying knowledge from the social and physical sciences, students in Family Social Sciences examine factors affecting human psychosocial health and wellbeing. They study human development from infancy to old age within the context of families, communities, and culture.

Students are required to choose at least one area, or option, in which to focus their studies. The name of their option will appear as a "comment" on their transcripts. They may select from the following options: 1) Aging and Developmental Health Option; 2) Child and Youth Developmental Health Option; 3) Family Economic Health; 4) Family Violence; 5) Social Development as well as the Interfaculty Option in Aging. Family Social Sciences graduates are permitted to complete any option after their degree as a Special Student. Not every Family Social Sciences course will be offered every year. A chart providing course rotation information is available on the Family Social Sciences web page.

The Family Social Sciences program can provide students with academic preparation or complementary courses for programs such as Law, Social Work, Education or Graduate Studies.

Students interested in Family Social Sciences are also advised to review the Bachelor of Health Studies, which is part of the [Interdisciplinary Health Program](#).

4.4.1 Students Admitted in September 2015 or Later

Courses to be taken by all Family Social Sciences students:

| Course Number | Course Name | Credit Hours |
|--|--|--------------|
| STAT 1000 | Basic Statistical Analysis | 3 |
| One of STAT 2000 or any other Science course | Basic Statistical Analysis 2 or any other Science course | 3 |
| One of: ECON 1010, 1020, 1210 or 1220 | Principles of Economics, Introduction to Canadian Economic Issues, or Introduction to Global and | 3 - 6 |

| | | |
|---|---|----------------|
| | Environmental Economic Issues and Policies | |
| HNSC 2000 (former HMEC 2000) | Research Methods and Presentation | 3 |
| HEAL 3000 (former HMEC 3000) | Introduction to Social Epidemiology | 3 |
| HEAL 2600 | Integration of Health Determinants of Individuals | 3 |
| FMLY 1000 | Families in Contemporary Canadian Society | 3 |
| FMLY 1010 | Human Development in the Family | 3 |
| FMLY 1012 | Introduction to Social Development | 3 |
| FMLY 1420 | Family Management Principles | 3 |
| FMLY 2400 | Family Financial Health | 3 |
| FMLY 2500 | Diversity and Families | 3 |
| FMLY 3750 | Fundamentals of Health Promotion | 3 |
| FMLY 3780 | Introduction to the Development of Programs for Children and Families | 3 |
| FMLY 3790 | Introduction to the Evaluation of Programs for Children and Families | 3 |
| PSYC 1200 or SOC 1200 | Introduction to Psychology or Introduction to Sociology | 6 |
| Program Electives | | 24 |
| FMLY Elective (3 cr. hr. must be at the 3000 level or higher)* | | 3 |
| Outside Electives | | 12 – 15 |
| Free Electives | | 27 |

Notes:

If students choose ECON 1010 and 1020 (former 1200) or ECON 1210 and 1220, 12 credit hours of outside electives are required.

All courses listed in the general Family Social Sciences section (above) are required. In addition, students must choose at least one area (Option) in which to focus their studies. In the following section, the courses required to fulfill each Option are listed. They will partially meet department, outside and free elective requirements. More courses will be required to complete the 120 credit hour degree. Students are encouraged to take more than one Option. Each Option must consist of 18 non-overlapping credit hours; that is, no course can satisfy the requirement of more than one Option.

* Any non-required FMLY course is a Bachelor of Human Ecology (Family Social Sciences) program elective. At least one of the non-specified program electives must be at the 3000-4000 level. For more information, students are asked to contact the Academic Advisor for the Bachelor of Human Ecology Family Social Sciences Degree Program.

4.4.2 Aging and Developmental Health Option

This option is also part of the Interfaculty Option in Aging, which can fulfill the requirement for an option within the Family Social Sciences major.

| Aging and Development Health Option | | |
|--|---|---------------------|
| Course Number | Course Name | Credit Hours |
| FMLY (Former HMEC) or REC or SWRK 2650 | Social Aspects of Aging | 3 |
| NURS or KIN 2610 | Health and Physical Aspects of Aging | 3 |
| FMLY 4300 | Field Experience (must be focused on Aging) | 6 |
| At least 3 credit hours from: | | 3 |
| FMLY 3220 | Death and the Family | |
| FMLY 3240 | Families in Later Years | |
| FMLY 4220 | Aging and Risk in a Global Context | |
| At least 3 credit hours from: | | 3 |

| | | |
|-----------|--------------------------------------|--|
| PSYC 2490 | Abnormal Psychology | |
| PSYC 3070 | Adult Development | |
| PSYC 3490 | Individual Differences | |
| PSYC 3610 | Memory | |
| KIN 4500 | Physical Activity and Aging | |
| REC 4250 | Leisure and Aging | |
| RLGN 1410 | Death and Concepts of the Future | |
| SOC 2490 | Sociology of Health and Illness | |
| SOC 2620 | The Sociology of Aging | |
| SOC 3540 | The Sociology of Health Care Systems | |

4.4.3 Child and Youth Developmental Health Option

| Child and Youth Developmental Health Option | | |
|--|---|---------------------|
| Course Number | Course Name | Credit Hours |
| FMLY 2600 | Foundations of Childhood Developmental Health | 3 |
| FMLY 3600 | Adolescents in Families and Societies | 3 |
| FMLY 3330 or FMLY 4604 or FMLY 4606 | Parenting and Developmental Health in Children or Children in Adversity or A Social Justice Perspective on Indigenous Maternal and Child Health | 3 |
| At least 9 credit hours from: | | 9 |
| ANTH 2300 | Anthropology of Childhood | |
| FMLY 2800 | Family Violence | |
| FMLY 3800 | Conflict Resolution in the Family | |
| FMLY 3802 | Intimate Partner Violence | |
| FMLY 3806 | Children, Violence and Rights | |
| FMLY 4330 | Management of Family Stress | |
| FMLY 4480 | Work and Family Issues | |
| FMLY 4602 | Family Relationships, Health and Well-Being | |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | |
| HNSC 2130 | Nutrition through the Life Cycle | |
| NURS 4440 | Prevention of Illness | |
| PSYC 2440 | Behaviour Modification Principles | |
| PSYC 3070 | Adult Development | |
| PSYC 3150 | Behaviour Modification Applications | |
| PSYC 3310 | Adolescent Development | |
| PSYC 3360 | Experimental Child Psychology | |
| PSYC 3860 | Language Acquisition | |
| SOC 3830 | Youth, Crime and Society | |

4.4.4 Family Economic Health Option

| Family Economic Health Option | | |
|--|---|---------------------|
| Course Number | Course Name | Credit Hours |
| At least 9 credit hours from: | | 9 |
| FMLY 3400 | Families as Consumers | |
| FMLY 4330 | Management of Family Stress | |
| FMLY 4400 | Family Economics: Poverty and Wealth | |
| FMLY 4480 | Work and Family Issues | |
| At least 9 credit hours from (select at least 3 credit hours from courses numbered 3000 or 4000): | | 9 |
| ACC 1100 | Introductory Financial Accounting | |
| ACC 1110 | Introductory Managerial Accounting | |
| ANTH 2430 | Ecology, Technology and the Society | |
| ANTH 2550 | Culture and the Individual | |
| ECON 2310 | Canadian Economic Problems | |
| ECON 2350 | Community Economic Development | |
| ECON 2362 | Economics of Gender | |
| ECON 2390 | Introduction to Environmental Economics | |
| ECON 3720 | Urban and Regional Economics and Policies | |
| FIN 2200 | Corporation Finance | |

| | | |
|-----------|---|--|
| FIN 3420 | Security Analysis | |
| FMLY 3012 | Social Development Policies | |
| FMLY 3240 | Families in Later Years | |
| FMLY 4012 | Theories of Social Development | |
| FMLY 4220 | Aging and Risk in a Global Context | |
| FMLY 4602 | Family Relationships, Health and Well-Being | |
| GEOG 1280 | Introduction to Human Geography | |
| GEOG 2210 | Economic Geography | |
| GMGT 2070 | Organizational Behaviour | |
| HRIR 2440 | Human Resource Management | |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | |
| HNSC 2130 | Nutrition through the Life Cycle | |
| MKT 2210 | Fundamentals of Marketing | |
| MKT 3230 | Consumer Behaviour | |
| NATV 1200 | The Native Peoples of Canada | |
| NATV 1220 | Indigenous Peoples in Canada, Part 1 | |
| NATV 1240 | Indigenous Peoples in Canada, Part 2 | |
| NURS 4440 | Prevention of Illness | |
| SOC 3370 | Sociology of Work | |
| SOC 3380 | Power, Politics and the Welfare State | |
| SOC 3890 | Power and Social Inequality: A Comparative Perspective | |
| TXSC 1600 | Textiles for Apparel End Uses | |
| TXSC 1610 | Textiles, Product and Consumers | |
| TXSC 2600 | Textiles for Apparel End Uses | |
| TXSC 2610 | Textiles for Non Apparel End Uses | |
| TXSC 2620 | Consumer and Organizational Behaviour Toward Textile Products | |
| TXSC 3600 | Global Apparel and Textiles Trade | |

4.4.5 Family Violence Option

| Family Violence Option | | |
|--|--|--------------|
| Course Number | Course Name | Credit Hours |
| FMLY 2800 | Family Violence | 3 |
| FMLY 3802 or FMLY 3806 | Intimate Partner Violence or Children, Violence and Rights | 3 |
| FMLY 4802 | Family Violence Prevention | 3 |
| At least 9 credit hours from (select at least 3 credit hours from courses numbered 3000 or 4000): | | 9 |
| ANTH 3380 | Anthropology and Contemporary Social Issues | |
| FMLY 3800 | Conflict Resolution in the Family | |
| FMLY 4220 | Aging and Risk in a Global Context | |
| FMLY 4330 | Management of Family Stress | |
| FMLY 4602 | Family Relationships, Health and Well-Being | |
| FMLY 4604 | Children in Adversity | |
| NATV 1220 | Indigenous Peoples in Canada, Part 1 | |
| NATV 1240 | Indigenous Peoples in Canada, Part 2 | |
| NURS 3330 | Women and Health | |
| NURS 3400 | Men's Health: Concerns, Issues and Myths | |
| PSYC 3470 | Dyadic Relationships | |
| SOC 2370 | Ethnic Relations | |
| SOC 2510 | Criminology | |
| SOC 3700 | Sociology of Law | |
| SOC 3790 | Women, Crime and Social Justice | |
| SOC 3830 | Youth, Crime and Society | |
| SWRK 3130 | Contemporary Canadian Social Welfare | |
| WOMN 3560 | Feminist Perspectives on Violence Against Women | |

4.4.6 Social Development Option

| Social Development Option | | |
|--------------------------------------|---|--------------|
| Course Number | Course Name | Credit Hours |
| At least 9 credit hours from: | | 9 |
| FMLY 2012 | Development, Conflict, and Displacement | |
| FMLY 3012 | Theories of Social Development | |
| FMLY 4012 | Social Development Policies | |
| FMLY 4400 | Family Economics, Poverty and Wealth | |
| Three (3) credit hours from: | | 3 |
| FMLY (former HMEC)/SWRK/REC 2650 | Social Aspects of Aging | |
| FMLY 2800 | Family Violence | |
| FMLY 3240 | Families in Later Years | |
| FMLY 3400 | Families as Consumers | |
| FMLY 3800 | Conflict Resolution in the Family | |
| FMLY 4220 | Aging and Risk in a Global Context | |
| FMLY 4330 | Stress in the Family | |
| FMLY 4480 | Work and Family Issues | |
| FMLY 4602 | Family Relationships, Health and Well-Being | |
| FMLY 4604 | Children in Adversity | |
| Six (6) credit hours from: | | 6 |
| ANTH 1220 | Cultural Anthropology | |
| LABR 3220 | Global Sweatshops, Global Struggles | |
| NATV 1220 | The Native Peoples of Canada, Part 1 | |
| NATV 1240 | The Native Peoples of Canada, Part 2 | |
| POLS 1000 | Democracy and Development | |
| POLS 2070 | Introduction to Canadian Government | |
| POLS 4710 | Political Theory and the Family | |
| SOC 2320 | Canadian Society and Culture | |
| SOC 3890 | Power and Inequality in Comparative Perspective | |
| SWRK 2050 | Community and Organizational Theory | |
| WOMN 1600 | Introduction to Women's and Gender Studies in the Social Sciences | |

4.5 The After Degree Program in Family Social Sciences

An After Degree Program (ADP) in Family Social Sciences is offered to students who have completed a previous undergraduate degree. ADP students must complete 60 credit hours in total to earn their second degree in Family Social Sciences. All Family Social Sciences U1 prerequisites are waived. In order to facilitate ADP students completing the program in a timely manner, they will automatically be permitted (without special permission from the course instructor) to take Family Social Sciences 2000 level prerequisites as corequisites for any required Family Social Sciences 3000 and/or 4000 level courses. Please consult with the Academic Advisor when planning programs prior to registration. ADP students are required to choose at least one option and meet its requirements at the second year level and beyond. These 18 credit hours may include courses external to the Bachelor of Human Ecology Social Sciences Degree Program that are required to complete an option. If a second option is not chosen, then these credit hours must be taken within the program. There are no free electives in the ADP.

Students admitted in September 2015 or Later

Bachelor of Human Ecology Family Social Sciences Degree Program Core Courses (any 6 credit hours. See note 3):

| At least 6 credit hours from: | | |
|---|---|--------------|
| HNSC 2000, HEAL 3000, or HEAL 2600 | Research Methods and Presentation, Introduction to Social Epidemiology, or Integration of Health Determinants of Individuals (see note 3) | 6 - 9 |
| Family Social Sciences Requirements (see note 4): | | |
| FMLY 2400 | Family Financial Health | 3 |
| FMLY 2500 | Diversity and Families | 3 |
| FMLY 3750 | Fundamentals of Health Promotion | 3 |
| FMLY 3780 | Introduction to the Development of Programs for Children and Families | 3 |
| FMLY 3790 | Introduction to the Evaluation of Programs for Children and Families | 3 |
| And a minimum of 6 credit hours from (see note 5): | | 6 |
| FMLY 2600 | Foundations of Childhood Developmental Health | |
| FMLY 2800 | Family Violence | |
| FMLY 2012 | Development, Conflict, and Displacement | |
| FMLY/SWRK/ REC 2650 | The Social Aspects of Aging | |
| Family Social Sciences Option (see note 6) | | 15 |
| Family Social Sciences Electives (see note 7) | | 12-15 |
| STAT 1000 | Basic Statistical Analysis (see note 8) | 3 |
| TOTAL | | 60 |

NOTES:

- The same entrance requirements will be applied to ADP students in order to maintain current Degree Program standards.
- Basic social science knowledge is assumed because ADP students have previously completed an undergraduate degree; waiving U1 requirements for FSS courses acknowledges the skills, background and maturity of this particular group of students.
- This choice provides students who have previously taken a research methods course with the option of avoiding redundancy in their program. Students are free to take all three core courses if they feel it would benefit them. If students select 9 credit hours of core courses, the FSS electives component is reduced to 15 credit hours.
- This set of courses is currently required of all undergraduate FSS students and is required for students in the ADP.
- Students are required to take a minimum of any two (6 credit hours) of the introductory level courses across options. Review the list of options found in the 120 credit hour undergraduate degree program to assist with planning for prerequisites for higher level courses.
- Each FSS option is a total of 18 credit hours; ADP students will have taken at least one 2000 level course (3 credit hours) required by the chosen option as part of their program requirements, leaving the remaining 15 credit hours to be completed to fulfil the option. Completion of the option may include courses external to the Bachelor of Human Ecology Family Social Sciences Degree Program that are required to complete an option.
- ADP students are encouraged to specialize in two options simultaneously to strengthen and broaden their expertise. If a second option is chosen, these credit hours may include courses external to the Bachelor of Human Ecology Family Social Sciences Degree Program that are required to complete the option. If students have completed the 2000 level course required for the second option, the requirement to complete the option is 15 credit hours. If a second option is not chosen, then these credit hours must be taken within the department.
- Students who have previously completed an undergraduate statistics course can either transfer it in directly (if already assessed as equivalent) or can request to have it assessed for advanced standing; if successful,

students will be required to add 3 credit hours to their program from courses selected from Family Social Sciences.

ADP in FSS is 60 credit hours. If students have taken any of the required courses for this degree, they can be transferred in. ADP students will need to take additional courses in order to fulfill the University of Manitoba's Residency Requirement. This requirement states all students must complete at least 60 credit hours in the Bachelor of Human Ecology - Family Social Sciences degree program at the University of Manitoba. Students may want to discuss additional courses with the Academic Advisor's office.

4.6 The Family Social Sciences Minor

Students must complete 18 credit hours, distributed as follows: Six (6) credit hours in Family Social Sciences at the 1000 level, and at least three (3) credit hours in Family Social Sciences at the 2000 level, and at least three (3) credit hours in Family Social Sciences at the 3000 or 4000 level, with no more than 6 credit hours at the 1000 level.

Students must check with their home Faculties to see if the Family Social Sciences minor is available in their programs.

4.7 Interfaculty Option in Aging

An Option in Aging is offered by and in the following faculties, schools, and colleges: Arts, Rady Faculty of Health Sciences: Bachelor of Human Ecology Family Social Sciences Degree Program, Interdisciplinary Health, Nursing, Kinesiology and Recreation Management, Social Work, and Agricultural and Food Sciences: Bachelor of Sciences in Human Nutritional Sciences Program, Bachelor of Science in Textile Science Program.

To complete the option, students must complete each of the following requirements:

| Interfaculty Option in Aging | | |
|--|---|---|
| Required Courses (6 credit hours): | FMLY 2650 (former HMEC) or REC 2650 or SWRK 2650 The Social Aspects of Aging | KIN 2610 or NURS 2610 Health and Physical Aspects of Aging |
| At least six (6) credit hours of discipline-specific (professional) applied work in the student's department of registration | Human Ecology Courses: FMLY 4300 HMEC 4090 Agricultural and Food Sciences Course: HNSC 4362 | Application is required for all field placement or practicum courses. |
| Six (6) credit hours of aging-related courses from participating units | Human Ecology Courses: FMLY 3220 FMLY 3240 FMLY 4220 Agricultural and Food Science Courses: HNSC 2130 HNSC 4310 | |

Upon completion of these requirements, a comment will be added to the student's transcript.

4.8 The Minor in Management

A Management Minor is offered by the Asper School of Business. Bachelor of Human Ecology Family Social Sciences Degree Program students may complete this Minor as part of the electives portion of their programs. The Minor will consist of any 18 credit hours of Management courses. Students must meet prerequisites for all courses.

4.9 The Voluntary Minor

Students in the Bachelor of Human Ecology Family Social Sciences Degree Program may declare and complete a Minor from departments and interdisciplinary programs in which a Minor is offered. Information about Minors in programs is found in the appropriate description of departmental/school/faculty program offerings in the Undergraduate Calendar.

Completion of the Minor is entirely optional. Students may not, however, declare both their Major and Minor from the same department/interdisciplinary program. No course may be used as part of a prescribed program in the Bachelor of Human Ecology Family Social Science Degree Program and also be part of a prescribed Minor. For example, if a course in Chemistry is part of a student's degree requirements in the Bachelor of Human Ecology Family Social Sciences Degree Program, it cannot be used as part of a Minor in another program. Completion of a Minor may require that a student take more than the minimum number of credit hours for graduation.

SECTION 5: Family Social Sciences Course Descriptions-1000 Level

FMLY 1000 Families in Contemporary Canadian Society Cr. Hrs. 3

(Formerly FMLY 1020) This course provides an introduction to issues in contemporary families from an interdisciplinary perspective. Changing and diverse family forms and experiences are reviewed. An overview of issues pertinent to family well-being, including but not limited to immigration, poverty, homelessness, racism, addiction, disability, divorce, and physical and mental illness is provided. Not to be held with FMLY 1020.

FMLY 1010 Human Development in the Family Cr. Hrs. 3

Introductory survey of key aspects of human development processes within the family context from a life span perspective. Not to be held with NURS 1260.

FMLY 1012 Introduction to Social Development Cr. Hrs. 3

This course is an introduction to Social Development with a particular emphasis on families and communities. Social development is concerned with the advancement of the common good, the effective management of social problems, the meeting of human needs, and the equitable distribution of society's resources. As such, this course explores the social factors and conditions that promote or hinder social development and how this affects the well-being of individual, families, and communities in contemporary societies. Not to be held with FMLY 1900

FMLY 1420 Family Management Principles Cr. Hrs. 3

An introductory course that uses an ecosystem perspective resources, decision-making, planning, implementing, evaluating, and communication within family contexts. Applications to balancing work and family, individual and family stress, family finance, environmental issues, and the use of time and human resources will be made.

SECTION 5: Family Social Sciences Course Descriptions-2000 Level

FMLY 2012 Development, Conflict, and Displacement Cr. Hrs. 3

The course is an introduction to development, conflict, and displacement as they affect individuals, families and communities. Specifically, this course examines the current phenomenon of induced displacement due to social conflicts, natural disasters, or uneven development in developing countries. Students will examine concepts and issues arising from induced displacement and explore community based responses to this problem. Not to be held with FMLY 2900. Prerequisite: 1012 or consent of the instructor.

FMLY 2400 Family Financial Health Cr. Hrs. 3

A survey of topics that have an impact on the financial health of Canadian families, including personal money management, mortgage financing, credit and debt, educational and retirement planning, taxation, insurance, savings and investments. The course prepares students to help families maximize resources and increase their financial literacy. Prerequisite: FMLY 1420. Not to be held with the former FMLY 2070.

FMLY 2500 Diversity and Families Cr. Hrs. 3

(Formerly FMLY 2350) Using the theoretical frameworks of intersectionality and social ecology, this class addresses how diversity in Canada is influenced by age, gender, ability, ethnicity, race, as well as family relationships, institutions and social policies. A focus on human rights and anti-racism education is emphasized. Not to be held with FMLY 2350. Prerequisite: FMLY 1000 (FMLY 1020) or FMLY 1010 or equivalent.

FMLY 2600 Foundations of Childhood Developmental Health Cr. Hrs. 3

This course examines the theoretical and empirical foundations of childhood development and their implications for promoting developmental health. Specifically, the course considers the biological and environmental factors that influence developmental health given physical, cognitive, emotional and social development from the prenatal period to middle childhood. May not be held with PSYC 2290 or PSYC 2291. Prerequisite: FMLY 1010.

FMLY 2650 The Social Aspects of Aging Cr. Hrs. 3

An examination of the social aspects of aging. Emphasis on understanding the aging process as a life transition involving adaptation through interaction with social and physical environments. May not be held with the former HMEC 2650 or SWRK 2650 or SWRK 2651 or REC 2650.

FMLY 2800 Family Violence Cr. Hrs. 3

A survey of the extent and nature of various forms of family violence across the life course. Topics include physical and sexual child abuse, sibling violence, partner violence, and elder abuse. Emphasis is on prevalence, incidence, causes, consequences and solutions. Prerequisite: FMLY 1010 or FMLY 1000 (FMLY 1020) or PSYC 1200 or SOC 1200.

SECTION 5: Family Social Sciences Course Descriptions-3000 Level

FMLY 3012 Theories of Social Development Cr. Hrs. 3

This course is a survey of social development theories that have influence the study and practice of development since the 1950s. It addresses the question of why theories of social development are necessary and why different theories emerged at particular times in history. This course examines explanations of development and underdevelopment as they impact on individuals, families and communities. Not to be held with FMLY 3900. Prerequisite: FMLY 1012.

FMLY 3220 Death and the Family Cr. Hrs. 3

An examination of dying and death of family members throughout the family life cycle. Specific topics included are the meaning of death, the process of dying, caring relationships, grief and bereavement. Prerequisite: FMLY 1000 (FMLY 1020) or PSYC 1200 or SOC 1200.

FMLY 3240 Families in Later Years Cr. Hrs. 3

An investigation of family issues in the later years of life, such as housing, intergenerational relations, adjustment to retirement, sibling relations, grandparenting, and death. Students may not hold credit for FMLY 3240. Prerequisites: [FMLY 1010 and FMLY 1000 (FMLY 1020)] or PSYC 1200 or SOC 1200.

FMLY 3330 Parenting and Developmental Health Cr. Hrs. 3

Examines parenting and its influence on developmental health, with consideration of change across time, the context in which parenting occurs, and the effect of the parent-child relationship on developmental health. Prerequisites: FMLY 2600 or FMLY 3600.

FMLY 3400 Families as Consumers Cr. Hrs. 3

An examination of the factors that influence the consumer behaviour of individuals and families across the life course, with particular attention to the situation of vulnerable consumers. Theory, education, policy and practice are related to contemporary consumer issues and the impact of consumption behaviour on the environment. Prerequisites: [FMLY2400 or FMLY 2070] and [ECON 1210 or ECON 1220 or ECON 1010 or ECON 1020]. Not to be held with the former FMLY 3450.

FMLY 3470 Selected Studies in the Family I Cr. Hrs. 3

The opportunity to carry out an individual study in the area of the family of particular interest to the student. When enrolment warrants, the department may offer selected topics in a regular course format. Prerequisite: consent of instructor.

FMLY 3600 Adolescents in Families and Society Cr. Hrs. 3

This course is designed to help students understand the nature of adolescent relationships with their families in communities. The application of theory and research on adolescent relationships to professional practice with families and communities is emphasized. Prerequisite: FMLY 2600 and completion of 54 credit hours.

FMLY 3750 Fundamentals of Health Promotion Cr. Hrs. 3

This course provides an interdisciplinary life course perspective on theories and methods of health promotion. Current research, practices and policies in health promotion targeting individuals, families and communities will be critically reviewed with regard to issues of gender, culture, age, functional ability, socio-economic status, sexual orientation, and other determinants of health. Prerequisites: HEAL 2600 or KPER 1200 (or the former PERS 1200) or KPER 1400 (or the former PERS 1400).

FMLY 3780 Introduction to the Development of Programs for Children and Families Cr. Hrs. 3

An introduction to the theory and practice of program development with special emphasis on programs for children and families. The course will cover techniques for conducting need assessments, as well as the process of planning and implementing programs to address community need. Prerequisite: HMEC 2000 or HMEC 2050.

FMLY 3790 Introduction to the Evaluation of Programs for Children and Families Cr. Hrs. 3

An introduction to the theory and practice of program evaluation with special emphasis on child and family programs. Considers the purpose of evaluation, types of evaluation, evaluation design and analysis, and the evaluation process. Prerequisites: HMEC 2000 or HMEC 2050.

FMLY 3800 Conflict Resolution in the Family Cr. Hrs. 3

Students will examine the nature and development of conflict in family relationships throughout the life span. Implications of conflict for the quality of family relationships and individual development will be addressed. Prerequisite: FMLY 2800 and completion of 54 credit hours.

FMLY 3802 Intimate Partner Violence Cr. Hrs. 3

A critical examination of theory and research on violence in intimate relationships. Topics will include violence in dating, common-law, marital, ex-partner and same-sex relationships. Prerequisite: FMLY 2800.

FMLY 3806 Children, Violence and Rights Cr. Hrs. 3

Violence against children in their families takes many forms, from sexual exploitation to honour killings. We will explore, through a child rights lens, the forces contributing to violence against children, its impact on human

lives, and approaches to prevention being implemented around the world. Prerequisite: FMLY 2800. Not to be held with FMLY 3804.

SECTION 5: Family Social Sciences Course Descriptions-4000 Level

FMLY 4012 Social Development Policies Cr. Hrs. 3

This course examines the formulation of social development policies and the impact of these policies on the well-being of individuals, families, and communities. The course uses a seminar format to foster students' capacity to understand and examine policy issues. Students will develop skills in understanding, analyzing, and formulation social development policies. Actual social development case studies will be evaluated and alternative family and community oriented policies discussed. Not to be held with FMLY 4900. Prerequisite: FMLY 1012.

FMLY 4220 Aging and Risk in a Global Context Cr. Hrs. 3

This course will take an interdisciplinary perspective on definitions of risk associated with a variety of determinants that shape the daily lived experience of older adults, their families and communities, and the institutions that care for them. Students will evaluate programs, policies and research, and engage in a final project of their choice. Prerequisite or Corequisite: HMEC 2650 or SWRK 2650 or REC 2650 or NURS 2610 or KIN 2610.

FMLY 4300 Field Experience Cr. Hrs. 6

Provide students with field experience in a supervised setting. The course consists of 120 hours of supervised work in an assigned setting and seminar time with peers and field experience coordinator. Grade is pass/fail. Prerequisite: 84 credit hours and consent of instructor.

FMLY 4330 Management of Family Stress Cr. Hrs. 3

Theories which influence family behaviour during stress are discussed, and coping/managerial skills to mitigate the effects of the stressors are examined. Stress management advice from agencies and in educational settings is analyzed. Prerequisite: FMLY 1000 (FMLY 1020).

FMLY 4400 Family Economics: Poverty and Wealth Cr. Hrs. 3

Analysis of principles, major problems and trends in the economic welfare of individuals and families in both the Canadian and global economies. Emphasis on families and their relationships to the economy such as income inequality, family economic policy, human capital, poverty and resource distribution within families. Prerequisites: [FMLY 2400 or FMLY 2070] and [one of ECON 1210 or ECON 1220 or ECON 1010 or ECON 1020].

FMLY 4470 Selected Studies in the Family II Cr. Hrs. 3

The opportunity to carry out advanced study in the area of the family of particular interest to the student. When enrolment warrants, the department may offer selected topics in a regular course format. Prerequisite: consent of instructor.

FMLY 4480 Work and Family Issues Cr. Hrs. 3

An exploration of the interface between paid work and unpaid work and families in the Canadian and international contexts. Topics include demographic trends; parenting, child and elder care; management of work-family conflict; development of workplace solutions; and social policy implications. Prerequisite: FMLY 2400 (or FMLY 2070) and 84 credit hours.

FMLY 4500 Senior Thesis Cr. Hrs. 3

The preparation and presentation of a comprehensive review of the literature and an empirical investigation of an approved topic. Prerequisite: Registered in the final year of the Family Social Sciences program and consent of Department Head. Application required. Enrolment limited.

FMLY 4600 Risk and Resilience in Behavioural and Social Development Cr. Hrs.3

The development of behavioural and social difficulties are examined from a risk and resilience perspective. The interaction of factors at all levels of the human ecological system are considered in terms of their impact on increasing risk and/or building resilience in children and youth.
Prerequisite: FMLY 2600

FMLY 4602 Family Relationships, Health and Well-being **Cr. Hrs. 3**

This course provides an in-depth survey of the interaction between family relationship dynamics, health and well-being across the life course period. The influence of family members on health-related behaviours is reviewed and preventive family-based interventions are evaluated. Prerequisite: FMLY 3600.

FMLY 4604 Children in Adversity **Cr. Hrs. 3**

Millions of children live with violence, trauma and other adverse circumstances. We will explore the interactions among individual, family, cultural, legal and policy factors as they affect children's developmental pathways in the face of adversity. Prerequisite: FMLY 2600 or FMLY 3600. May not be held with FMLY 4600.

FMLY 4606 A Social Justice Perspective on Indigenous Maternal and Child Health **Cr. Hrs.3**

This course examines the local and global challenges regarding the health care and health care needs of Indigenous peoples, with particular attention to childbearing women, new mothers, and young children. Interdisciplinary theories and methods applied to the study of Indigenous peoples are critically evaluated from Indigenous and social justice perspectives. Prerequisite: FMLY 2500(FMLY 2350) or NURS 3330 or NATV 1220 or NATV 1240.

FMLY 4800 Senior Seminar in Family Violence and Conflict Resolution **Cr. Hrs.3**

Advanced study in the areas of family violence and/or conflict resolution. Special emphasis is placed upon current research and/or practice. Prerequisite: FMLY 3800 and completion of 72 credit hours.

FMLY 4802 Family Violence Prevention **Cr. Hrs. 3**

Family violence prevention theories, research, practices and policies will be critically reviewed with regard to issues such as gender, culture, sexual orientation and others. Prerequisites: FMLY 2800. Not to be held with the former FMLY 4800.

College of Nursing

Dean: Netha Dyck

Associate Dean(s): Undergraduate: Marie Edwards: Graduate: Donna Martin; Research: Susan McClement

Campus Address/General Office: Helen Glass Centre for Nursing

Telephone: (204) 474 7452

Fax: (204) 474 7682

Email Address: nursing_info@umanitoba.ca

Website: <http://umanitoba.ca/nursing>

Academic Staff: Please refer to the College of Nursing website at:

<http://umanitoba.ca/nursing>

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SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | Years to Complete | Total Credit Hours | Maximum Years to Complete |
|---|-------------------|--------------------|---------------------------|
| Bachelor of Nursing | 4* | 127 | 6 |
| Baccalaureate Program for Registered Nurses** | 2 | 45 | 5 |

*This includes one year (30 credit hours) of study in University 1.

**This program is designed specifically for active practicing Registered Nurses. Intake currently suspended.

1.2 Professional Designation

A graduate of the Bachelor of Nursing Program must write the NCLEX examination to become eligible to practice nursing. Following successful completion of all courses, the College of Nursing provides the College of Registered Nurses of Manitoba (CRNM) with a letter indicating that the student has completed the program requirements and is a potential graduand. Completion of the program entitles students to apply to work as graduate nurses and to apply to write the NCLEX examination to obtain the designation, Registered Nurse (RN). Approval of the application to write the NCLEX examination will be subject to the graduate's meeting the requirements of the CRNM. Application and registration information can be obtained from the CRNM website at: www.crnmb.ca.

SECTION 2: Admission Requirements

2.1 Bachelor of Nursing Program - for Admission in 2015 and thereafter

The following is a summary of the admission requirements for each program in the College of Nursing. All admission requirements, application deadline dates and forms, are included in the Applicant Information Bulletin that is available from the Admissions Office website at <http://umanitoba.ca/admissions/>.

Non-Nursing courses must be assessed as exact equivalents in order to meet the specific course requirements for admission. Only courses completed within 10 years prior to the date of admission to the College of Nursing will be considered for transfer credit.

Nursing courses will be considered for evaluation and credit only if completed within 5 years prior to application/admission.

See also Section on "Advanced Standing/Transfer Credit".

Students who fail the same Nursing course twice, prior to applying to the College of Nursing, are ineligible for admission to the College of Nursing.

Course Requirements for Admission

Complete a minimum of 30 credit hours in the following identified courses (or their equivalent) with a minimum grade of "C" in each course. All of the following pre-requisite courses used to meet the admission requirements for the Bachelor of Nursing program must be transferrable for credit into the Bachelor of Nursing program. Non-nursing courses must be completed within 10 years and Nursing courses must be completed within 5 years of admission to the College of Nursing in order to be eligible for admission and advanced standing (transfer credit).

BIOL 1410 Anatomy of the Human

BIOL 1412 Physiology of the Human Body **OR**

BIOL 2410 Human Physiology 1 and BIOL 2420 Human Physiology 2

MBIO 1220 Essentials of Microbiology **OR**

MBIO 3010 Mechanisms of Microbial Disease

Science Electives- 9 credit hours

Electives- 12 credit hours

Any combination of the following courses/subjects for a total of 12 credits.

- Social Sciences
- Humanities
- NURS 1280 Introduction to Nursing
- NURS 1500 Preparing for Professional Nursing Education
- NURS 2610 or KIN 2610 Health and Physical Aspects of Aging
- NURS 2650 or SWRK 2650 or HMEC 2650 Social Aspects of Aging

The AGPA will be calculated on the most recent 45 credit hours (including repeated courses) of university level course work. If an applicant has less than 45 credit hours, the AGPA will reflect all credit hours completed (i.e. a minimum of 30 credit hours to a maximum of 45 credit hours). The AGPA is limited to course work taken within the 10 years prior to admission.

The minimum Adjusted GPA for admission to the College of Nursing is 2.5.

An AGPA higher than the minimum is recommended as admission may be competitive.

For more information see [College of Nursing Applicant Information Bulletin](#).

Applicants with Previous Bachelor of Nursing Degree

Applicants who have previously completed a Bachelor of Nursing or equivalent program in Canada or the United States are not eligible for admission to the Bachelor of Nursing program in the College of Nursing at the University of Manitoba. In exceptional circumstances, students may be considered on a case-by-case basis.

Applicants from Diploma and Degree Nursing Programs Category

Applicants who have attended but have not completed a nursing diploma or degree program, the completion of which would result in the graduate's eligibility to write NCLEX in order to qualify for registration to practice as a Registered Nurse, must meet admission requirements including the competitive AGPA in the year of application, apply for admission by the application deadline, and provide supplementary information, including the name of the Dean, Director, Head, or Coordinator of the Nursing Program in which the student was previously registered, and who will be contacted by the College of Nursing.

The Advance Standing and Admissions Committee reserves the right to deny admission to the University of Manitoba Nursing program based on any of the supplementary information. Applicants who would be eligible to register in third or fourth year courses will be considered for admission only if space is available.

Appeals of decision are limited to the question of procedural regularity only. The merits of the decision are not subject to review.

Special Consideration Category

The Special Consideration Category will consider applicants who are Indigenous People of Canada only, including individuals of First Nations, Metis, and Inuit heritage. Applicants in this category must meet the

minimum entrance requirements including a minimum AGPA of 2.5; however, they do not have to meet the competitive grade point average of admitted students in the admission year. Applicants must apply by the application deadline and also complete a supplementary application form that is available with the online application. The Supplementary Application and information are due no later than May 1.

Appeals of decisions are limited to the question of procedural regularity only. The merits of the decision are not subject to review.

Provisional Admission - Non-Academic Admission Requirements

All successful applicants are admitted provisionally pending compliance with the non-academic admission requirements of the College of Nursing. Failure to meet the requirements by July 15 for Fall admission or November 15 for Winter admission may result in the offer of admission being revoked. Contact the College of Nursing or go to <http://umanitoba.ca/faculties/nursing/undergrad/index.html> to find further information about the Non-Academic Admission Requirements.

Applicants are advised to carefully check the recommended start dates in the above document before beginning the process of complying with these admission requirements. Any costs associated with the non-academic admission requirements are the responsibility of the applicant.

Advanced Standing/Transfer Credit

Advanced standing will be considered for non-nursing courses completed at any university, including the University of Manitoba, if completed within 10 years of admission to the Bachelor of Nursing program.

Nursing courses from any university, including the University of Manitoba, will be considered for advanced standing/transfer credit only if they have been completed within five years prior to admission to the College of Nursing.

See also section on "Courses Completed at Recognized Universities other than the University of Manitoba" and course requirements for admission.

Advanced Standing: Licensed Practical Nurse (LPN)

Applicants who graduated from the Licensed Practical Nursing (LPN) Program from Assiniboine Community College or the Diploma in the Practical Nursing Program at University College of the North within five years of admission to the College of Nursing may be eligible for transfer credit. Applicants must meet admission requirements.

Criminal Record Check

Following their provisional admission to the program, applicants must provide a Criminal Record Check, including Vulnerable Check, by July 15 or November 15. Apply for the Criminal Record Check after April 1 and allow 4-8 weeks for processing.

A criminal conviction will not necessarily result in denial of admission to the College of Nursing. Criminal offences will be reviewed by a sub-committee of the Nursing Advance Standing and Admissions Committee for the implications of the conviction in view of the professional mandate to protect the public. Failure to disclose any criminal record will invalidate an applicant's application and shall result in automatic expulsion from the College of Nursing if the applicant has been admitted.

The College of Registered Nurses of Manitoba (CRNM) also requires that all graduates of an approved nursing education program who wish to practice nursing in this province disclose information about any conviction for an offence under the Criminal Code (Canada). The review process by the College of Nursing is independent of the review process conducted by the CRNM.

Child Abuse Registry Check

Following provisional admission to the program, applicants must provide a Child Abuse Registry Check by July 15 for Fall admission or November 15 for Winter admission. Apply for the Child Abuse Registry Check after April 1 and allow 4-8 weeks for processing.

Note: Any applicant on the Child Abuse Registry will be denied admission.

Adult Abuse Registry Check

Following provisional admission to the program, applicants must provide an Adult Abuse Registry check by July 15 for Fall admission or November 15 for Winter admission. Apply for the Adult Abuse Registry Check after April 1 and allow 4-8 weeks for processing.

Immunization

Immunizations and tests will be provided at the College of Nursing. Students who are offered admission will be sent an Immune Status Consent Form & Student information for completion due July 15 for Fall intake and November 15 for Winter intake. Previous immunization and testing records will be reviewed and students will be informed what additional items, if any, are required. Detailed information about the immunization requirements can be found at <http://umanitoba.ca/faculties/nursing/undergrad/index.html>

CPR Certification

CPR certification at the Health Care Provider (HCP) Level is a requirement for admission to the College of Nursing. Certification must be valid until the end of the academic year (i.e. April); therefore, should not be obtained before April 1st by applicants for either Fall or Winter admission.

Respirator Mask-Fit Testing

Applicants must be fit-tested with the respirator mask that is used in the event that airborne precautions are required in clinical agencies. All new students will be given the opportunity to have mask-fit testing addressed at the start of the program. Testing includes basic education about the masks, precise determination of your mask size, and issue of an official card which indicates your mask size and confirms that you have met this requirement. Official proof of the mask-fit test must be submitted by a designated date to the College of Nursing in advance of participation in any clinical practice course. Students carry the official for all clinical practice rotations.

2.2 Baccalaureate Program for Registered Nurses (BPRN)

Effective in Fall 2019, admission intake to the BPRN has been suspended

All admission requirements for applicants who are already Registered Nurses are described in detail in an applicant information bulletin that includes application deadline dates and application forms. This material is available from the Admissions Office website at: <http://www.umanitoba.ca/student/admissions/>

Admission Requirements

- 1) Graduation from an approved diploma of nursing education program;
- 2) Current active practicing membership in a Canadian provincial or territorial association/college of registered nurses; and
- 3) A minimum of 1125 hours of nursing experience will normally be required for selection.

Applicants will be provisionally admitted pending submission, by the published deadline, of the non-academic requirements: Criminal Record Search Certificate including Vulnerable Sector Search, Child Abuse Registry Check, Adult Abuse Registry Check, Immunization, CPR Certification, Respirator Mask-Fit Testing, and PHIA training.

Failures in Nursing Courses

Students who fail the same Nursing course twice, prior to applying to the College of Nursing, are ineligible for admission to the College of Nursing.

Proof of Professional Registration

Active practicing membership must be maintained throughout the program in the Canadian jurisdiction under which the student is a practicing RN. Verification will be obtained annually from the College of Registered Nurses of Manitoba by the College for returning Manitoba students.

Students from outside of Manitoba must submit proof of registration annually from the registering body to the College of Nursing.

After admission and at any time prior to completing the program, students with any changes to their active practicing status with the College of Registered Nurses of Manitoba or other Canadian jurisdiction in which they hold membership, (e.g., conditions placed on a registration or ineligibility for active practicing status), are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing. Such changes will be reviewed on a case by case basis. Failure to report a change in status may result in disciplinary action.

Transfer of Credit

University credits earned outside of nursing diploma programs or earned as part of an incomplete degree may be considered for transfer of credit. If a required course in the baccalaureate program was earned as part of a nursing diploma program or as part of another degree, an alternative course must be substituted. Transfer of credit will be considered for university level nursing courses completed within the five years prior to admission. Credit for previous nursing courses is not given if there is a lapse of five years or more from the last date of attendance in the program or if taken more than five years prior to admission. Credit for non-nursing courses taken at other universities over 10 years prior to admission will not be granted.

Graduates of the Red River College Diploma Nursing Accelerated Program (DNAP) (est. 2000) will receive 12 credit hours of advanced standing in the Baccalaureate Program for Registered Nurses (BPRN) for the following courses, provided a minimum grade of C+ was achieved in each course for transfer: NURS 3210 Research Methods, NURS 4220 Law and Ethics, and 6 credit hours of non-nursing electives. The Nursing courses must have been completed within five years, and the non-Nursing courses completed within 10 years, prior to admission to the College of Nursing. All remaining courses for the BPRN must be completed at the University of Manitoba in order to meet the residency requirement for the BPRN, unless the electives were completed at the University of Manitoba.

Transfer of Credit for Advanced Certificate Programs

No credit will be given for these certificates in the BPRN.

SECTION 3: Academic Regulations

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the College of Nursing has regulations and requirements, published below, that apply specifically to its students.

Following the regulations for all students, please see the regulations that are specific to each program.

3.1 Regulations for the Bachelor of Nursing Program

Students are obligated to be familiar with all regulations governing their continued progress in the program.

Security of Academic Records

The University's policies regarding the security of student academic records are found in the chapter, University Policies, of this Calendar.

Registration Status in the Program

Students admitted to the Program must complete a minimum of 3 credit hours of course work in the College of Nursing in the Fall or Winter term of their admission year.

Students are expected to maintain contact with the program by registering in at least one nursing course during each consecutive Fall and Winter term while they are enrolled in the Program.

Students who wish to interrupt their studies must apply in writing to the Associate Dean, Undergraduate Programs, for a Leave of Absence.

Leave of Absence

Students wishing to interrupt their studies must submit a written request for a Leave of Absence, normally by June 1 for Fall Term or November 1 for Winter Term, to the Associate Dean, Undergraduate Programs, College of Nursing. Later requests may be considered in exceptional circumstances. A Leave of Absence may normally be granted for a maximum period of one year. Requests for an extension to the Leave of Absence or for a subsequent Leave of Absence must be made in writing and will be subject to approval by the Associate Dean, Undergraduate Programs.

In order to return to the College of Nursing, students must submit a written request for reinstatement to the Associate Dean, Undergraduate Programs, no later than May 1 for Fall Term or October 1 for Winter Term. Requests for reinstatement will not normally be considered after May 1 or October 1 respectively. Students who do not apply for reinstatement by May 1 or October 1 will normally be considered as having left the Nursing program, and will be withdrawn from the College of Nursing.

Decisions made in response to requests for leaves of absence or reinstatement can be appealed to the College of Nursing Student Appeals Committee.

Leave of Absence status does not extend the program time limit outlined in the College of Nursing regulations. To maintain Leave of Absence status, and not be discontinued from the College of Nursing, students may not attend any other faculty or institution during the period in which the Leave of Absence is in effect. Students on a Leave of Absence will be subject to the same criminal record, Child Abuse Registry, and Adult Abuse Registry policies as students taking courses. At the time of requesting a return to studies, students may be required to provide a current self-declaration of a criminal record, or a Criminal Record Check, Child Abuse Registry, and Adult Abuse Registry check.

Students who attend another faculty or institution while on leave, or who have been withdrawn from the College of Nursing because they were not granted a Leave of Absence and did not take at least one Nursing course in Fall or Winter term, must re-apply through Admissions should they wish to return.

Residence Requirements

See the chapter, General Academic Regulations and Requirements in this Calendar.

Coursework and Evaluation

"0900" Level Courses

Credit will not be given for "0900" courses.

University Mathematics and Written English Requirement

Students admitted September 2015 and later must satisfy the Written English requirement and Mathematics requirement prior to admission.

Prerequisite Deficiency

Students who enroll in courses provisionally pending satisfactory completion of pre- or co-requisites must, if unsuccessful, withdraw or amend their registration accordingly. The College of Nursing reserves the right to not send reminders of the requirement to withdraw.

Challenge for Credit

Students wishing to challenge a course for credit should contact a student advisor.

Supplemental Examinations or Tests

The College of Nursing does not permit supplemental examinations or tests.

Academic Progression

Students are required to obtain a minimum of "C" grade in every letter grade course, a "Pass" in every Pass/Fail course, and a Program GPA of 2.5 to graduate. A final grade of "D" or "F" in a letter grade course or "Fail" in a Pass/Fail course taken to complete the degree requirement is considered a failure.

Academic assessments will be based on student performance in letter grade courses. The Term Grade Point Average (TGPA) will be calculated at the conclusion of each academic term in which the student has completed a minimum of 6 credit hours. Students who do not complete the minimum credit hours in one term will be assessed as "too few credit hours to assess." These students will be assessed over two terms or more at the end of the term in which they reach the threshold of 6 credit hours.

The final term of the program (NURS 4580) will be excluded from assessment providing the student meets graduation requirements. Students are required to have a minimum Program GPA of 2.5 to be eligible for graduation. Please see http://umanitoba.ca/faculties/nursing/undergrad/assessment_policy.html for details and procedures.

Good Academic Standing

A student with a TGPA of 2.5 or higher will be assessed "Faculty Minimum Met."

Academic Warning

The first time a student's TGPA drops below 2.5, the student will receive an Academic Warning.

Academic Probation

The second time that a student's TGPA drops below 2.5, the student will be placed on Academic Probation.

Academic Suspension

The third time that a student's TGPA drops below 2.5, the student will be placed on Suspension. Students who are suspended shall be ineligible to take any courses at the University of Manitoba or on a letter of permission for a minimum of eight and a maximum of 15 calendar months.

A student may apply for reinstatement on academic probation after the term of suspension has been completed.

Required to Withdraw

Students who have been permitted to return from Suspension and whose TGPA drops below 2.5 a fourth time will be Required to Withdraw. Students who are Required to Withdraw are ineligible for re-admission to the College of Nursing.

Dean's Honour List

The Dean's Honour list will be determined after each term of study. Students who achieve a minimum Term GPA of 3.75, and who are registered for a minimum of 12 credit hours will be placed on the Dean's Honour List. Students registered in a Fall/Winter term spanned course will be reconsidered for their eligibility for listing on the Fall term Dean's Honour List at the end of Winter term. Students who complete a course on a Letter of Permission may request to have these courses included in the assessment for Dean's Honour List. Students with a grade of D, F, or "Fail" in that term will not be eligible for Dean's Honour List.

Degree with Distinction

Students who achieve a Degree GPA of 3.8 and above based on the last 68 credit hours of course work, including Pass/Fail courses, will be eligible for a Degree with Distinction. Students with a grade of D, F, or "Fail" in the last 68 credit hours will not be eligible.

Voluntary Withdrawal

Students are allowed only one voluntary withdrawal per Nursing course in the College of Nursing.

Students who voluntarily withdraw from a Nursing course a subsequent time will have their withdrawal reversed and will be expected to complete the course. Students planning to withdraw from any course are advised to speak with a student advisor regarding the implications of this decision. Any financial implications will be the responsibility of the student.

Attendance

Regular attendance at class is expected of all students in all courses. Attendance in on-line courses will be interpreted as regular and consistent participation in the course.

Attendance in the clinical practice/laboratory portions of Nursing courses is mandatory to enable the student to satisfy the evaluative criteria of the theoretical and practical components of courses. Students absent from class or practice due to illness may be required to present a certificate of illness. This certificate must be signed by a recognized health care provider. Absence for compassionate reasons is considered on an individual basis. Where absence is involved, make-up time may be required.

A course leader may initiate procedures to debar a student from attending classes and from final examinations and/or from receiving credit where unexcused absences exceed those permitted by faculty regulations.

Debarment Policy

A student may be debarred from class, clinical practice, laboratories, and examinations by action of the Associate Dean, Undergraduate Programs for persistent non-attendance, unsafe clinical practice, and/or failure to produce assignments to the satisfaction of the instructor. Once the debarment process has been initiated, the student will not be able to voluntarily withdraw from the course that is presently under investigation. Students so debarred will have failed that course.

Failures in Nursing Courses

Students will be permitted to repeat a nursing course only once following a failure. Withdrawal from the program will be required following a second failure in the same nursing course or any two clinical courses. Students who fail a Nursing course twice and are required to withdraw from the College of Nursing are ineligible for re-admission to the College of Nursing.

Clinical Absence

Bachelor of Nursing Program students returning following one year or more absence from clinical courses must complete a mandatory demonstration of psychomotor skills competency in the skills lab. Competency must be demonstrated prior to clinical attendance. Students should consult with a student advisor for instructions. Testing must be completed prior to July 1 (Fall Term) or December 1 (Winter Term).

Failures in Clinical (Pass/Fail) Courses

Students who fail a clinical course will be required to accept a supportive learning contract prior to being given permission to register in another clinical course.

Failures in Clinical Course Rotations

Students who fail a rotation of a clinical course in which there are multiple rotations will be debarred from the course immediately following that rotation and will receive a final grade of "Fail". These students will not be permitted to voluntarily withdraw from the course following receipt of the failed grade.

Unsafe Clinical Practice Policy

The debarment policy will be invoked when the student demonstrated unsafe clinical practice. Unsafe clinical practice involves actions or behaviours which result in adverse effects or the risk of adverse effects to the health and well-being (psychological or physical) of the client, family, staff, faculty, or other students. Unsafe clinical practice is an occurrence, or a pattern of behaviour involving unacceptable risk.

Clinical Practice

Students enrolled in nursing courses with clinical practice components may not register for any other course during those designated clinical days. Nursing clinical practice may be scheduled during the morning, afternoon or evening. Weekends are also used for some sections in clinical courses.

All students must be registered in all clinical courses for both terms by the specified deadline. Failure to register by this date may prevent accommodation in a clinical course.

Transportation costs to clinical practice settings are the responsibility of the student.

Every effort will be made to accommodate eligible students who register for clinical courses during the initial registration period. However, spaces in clinical courses are dependent upon the availability of clinical sites, which are determined by health care agencies and the availability of clinical teachers. Therefore, the College cannot guarantee that all students who registered for the course can be accommodated.

Clinical Agency Requirements

The College of Nursing has contractual arrangements with the agencies in which students are placed for clinical practice. The contracts set out specific expectations regarding the preparation of students prior to their placement in any clinical site and their fitness to practice.

The College of Nursing assists the student to complete the following requirements and further information about how these requirements are met will be provided during Year 2 orientation or during NURS 0500.

1. The Personal Health Information Act (PHIA) Training

PHIA cards are required for clinical practice and will be checked at clinical sites.

2. Non-Violent Crisis Intervention Workshop

Provided after admission.

3. Electronic Patient Record Training

The following requirements are the responsibility of the student and must be completed independently, according to deadlines established by the College of Nursing. For newly admitted students, instructions about how to fulfill these requirements is set out in Section 3.1 Admission Requirements.

4.

Immunizations

Once admitted to the College of Nursing, students are required to maintain an up-to-date immunization status. Deadlines for completion of required vaccines will be established for individual students as needed. Students should keep a copy of their immunization records and retrieve their immunization records from their files upon graduation.

Penalty for Non-Compliance with Immunization Policy

Returning students who do not comply with the deadlines for completion of their immunizations, will be placed on hold status, which blocks the student from the registration system. Students on hold will be permitted to register in mid-August after all documentation has been received. Students who register in mid-August may not be able to register in some or all of the courses they had originally planned to take, and may experience a delay in completing the program. Hold status also prevents receipt of refunds or histories/transcripts from the Registrar's Office, attending clinical practice, and graduation.

5. Mandatory Annual Influenza Vaccination

All undergraduate students in the College of Nursing are required to obtain an annual influenza vaccination and submit documentation confirming the vaccination by the published deadline.

Students who do not submit documentation of influenza vaccination by the published deadline may not participate in clinical practice courses in Winter Term.

6. Criminal Record Check

Some clinical practice sites require that students complete a current or additional Criminal Record Check prior to the first clinical practice day.

Students charged with or convicted of a criminal offence are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing. Failure to report a criminal offence may result in dismissal from the program. Criminal offences will be reviewed by the College of Nursing Professional Unsuitability Committee for the

implications of the conviction in view of the professional mandate to protect the public.

7. Child Abuse Registry

Some clinical practice sites require that students complete a current or additional Child Abuse Registry check prior to the first clinical practice day.

Students listed on the Child Abuse Registry are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing. A listing on the Child Abuse Registry or failure to report the listing will result in dismissal from the program.

8. Adult Abuse Registry

Some clinical practice sites require that students complete a current or additional Adult Abuse Registry check prior to the first clinical practice day.

Students listed on the Adult Abuse Registry are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing.

9. Cardiopulmonary Resuscitation Certification (CPR)

All students are required to obtain certification in CPR at the Health Care Provider Level. Returning students, including those certified at the Instructor level, must recertify in April/May each year to ensure that their certification is valid for the entire academic year. Proof of re-certification must be submitted annually by June 1 to the Student Services Assistant or designate.

Penalty for Non-Compliance with CPR Policy

Returning students who do not comply with the deadlines for submission of the CPR re-certification, will be placed on hold status, which blocks the student from the registration system. Students on hold will be permitted to register in mid-August after all documentation has been received. Students who register in mid-August may not be able to register in some or all of the courses they had originally planned to take, and may experience a delay in completing the program. Hold status also prevents receipt of refunds or histories/transcripts from the Registrar's Office, attending clinical practice and graduation.

10. Respirator Mask Fit Testing

Mask-fit test cards are required for clinical practice and will be checked at clinical sites.

Attire for Clinical Practice

All students are required to wear uniforms, name tags and crests during clinical courses, unless given specific instructions not to do so by the agency in which they are placed for clinical practice.

Professional Unsuitability By-Law

The Senate of the University has approved a by-law granting authority to the College to require a student to withdraw for reasons of professional unsuitability. A student may be required to withdraw from the College when, at any time, the College Council, through the Professional Unsuitability By-Law, believes the student to be unsuited for the profession of nursing, on general considerations of scholarship, professional fitness or professional conduct.

Copies of this by-law may be obtained from <http://umanitoba.ca/faculties/nursing/undergrad/unsuitability-by-law.html%20%20>See chapter, General Academic Regulations and Requirements.

Disciplinary Appeal

Until the final disposition of a disciplinary appeal, students in the Bachelor of Nursing Program will not be permitted to attend clinical practice or the nursing skills laboratory. At the discretion of the Associate Dean, Undergraduate Programs, College of Nursing, students may be granted permission to attend the lecture component only of a nursing course(s) while awaiting a final disposition of an appeal currently in progress.

3.2 Regulations for the Baccalaureate Program for Registered Nurses (BPRN)

Students are obligated to be familiar with all regulations governing their continued progress in the program.

Security of Academic Records

The University's policies regarding the security of student academic records are found in the chapter, "University Policies", of this Calendar.

Registration Status in the Program

Students admitted to the BPRN must complete a minimum of 3 credit hours of course work in the Fall or Winter term following admission. Admission will be revoked for students who do not complete at least 3 credit hours in their first or second term of study following admission.

Students are expected to maintain contact with the program by registering in at least one nursing course during each consecutive Fall and Winter term while they are enrolled in the Program.

Students who wish to interrupt their studies must apply in writing to the Associate Dean, Undergraduate Programs, for a Leave of Absence. Refer to section on Leave of Absence for further information.

Program Planning

Students are expected to meet with a Nursing Student Advisor prior to May 15 to plan their program for the upcoming year. Students who do not meet with the Nursing Student Advisor will be placed on hold status, which blocks the student from the registration system and prevents receipt of refunds or histories/transcripts from the Registrar's Office, and graduation.

Leave of Absence

BPRN students wishing to interrupt their studies must have completed a minimum of 3 credit hours of course work in the College of Nursing in the Fall or Winter term of their admission year. Students must submit a written Leave of Absence request to the Associate Dean, Undergraduate Programs, College of Nursing. Leave of Absence status does not extend the program time limit outlined in the College of Nursing regulations. To maintain a Leave of Absence status at the University of Manitoba, students may not attend any other post-secondary institution during the period in which the Leave of Absence is in effect. See section Transfer of Credit.

Reinstatement

Students who have withdrawn from the College of Nursing (interrupted their studies without requesting a Leave of Absence) must submit a written request for reinstatement to the Associate Dean, Undergraduate Programs. The student advisor will inform the student of the appropriate procedure and advanced standing, if any, that the student may receive. Note: 1) the student who does not attend another faculty or institution and requests, within five years of voluntary withdrawal, to re-enter the College of Nursing will be advised to forward such a request to the Associate Dean, Undergraduate Programs; 2) the student who requests to return to the College of Nursing more than five years after withdrawal must re-apply; 3)

the student who has attended another faculty or an institution following withdrawal from Nursing must re-apply. See section 2.1 Advanced Standing/Transfer of Credit. Note that the BPRN must be completed within five years, including time on a Leave of Absence.

Residence Requirements

Students are required to complete, with the minimum grade of "C" in each course, at least 32 credit hours of University of Manitoba courses. Of these courses, a minimum of 20 credit hours must be from among those offered by the College of Nursing.

Course Work and Evaluation

Supplemental Examinations or Tests

The College of Nursing does not permit supplemental examinations or tests.

"0900" Level Courses

Credit will not be given for "0900" courses.

Prerequisite Deficiency

Students who enrol in courses provisionally pending satisfactory completion of pre- or co-requisites must, if unsuccessful, withdraw or amend their registration accordingly. The College of Nursing reserves the right to not send reminders of the requirement to withdraw.

Challenge for Credit

Students wishing to challenge a course for credit should contact a student advisor.

Proof of Professional Registration

Verification of registration of returning students will be obtained by the College of Nursing annually from the College of Registered Nurses of Manitoba (CRNM). Students not registered with the College of Registered Nurses of Manitoba and continuing in the program must submit proof annually of active practicing status in the Canadian jurisdiction in which they hold membership.

After admission and at any time prior to completing the program, students with any changes to their active practicing status with the CRNM, or other Canadian jurisdiction in which they hold membership (e.g., conditions placed on a registration or ineligibility for active practicing status), are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing. Such changes will be reviewed on a case by case basis. Failure to report a change in status may result in disciplinary action.

Academic Progression

Students will be required to obtain a minimum of "C" grade (2.0) in every course, and a minimum Program GPA of 2.5 in order to graduate. A final grade of "D" in any course taken to complete the degree requirement is considered a failure and is not accepted by the College.

Students must have a minimum Degree GPA of 2.5 to proceed in the program. For further information, refer to: Academic Probation - Baccalaureate Program for Registered Nurses.

Dean's Honour List

Students who achieve a minimum Term GPA of 3.5, including courses taken on a Letter of Permission, and who are registered for a minimum of 12

credit hours, will be placed on the Dean's Honour list. The Dean's Honour list will be determined after each term of study.

Degree with Distinction

Students who obtain a Degree GPA of 3.8 and above in their program of studies will be eligible for a Degree with Distinction.

Academic Probation

Students will be assessed after the Winter term upon completion of a minimum of 18 credit hours. Students failing to achieve the minimum Degree GPA of 2.5 will be placed on probationary status.

Probationary students will be assessed at the end of the Winter term after completion of a minimum of 15 credit hours. Students failing to achieve the minimum Degree GPA of 2.5 will be placed on academic suspension.

Academic Suspension

A probationary student who does not achieve the minimum academic standing is required to withdraw from the College of Nursing with the status "academic suspension." While suspended indefinitely, after one year's suspension the student may apply for reinstatement on academic probation.

To request reinstatement following academic suspension, the student should submit a written request before May 1 to the Chair, Student Appeals Committee, College of Nursing.

Voluntary Withdrawal

Students are allowed only one voluntary withdrawal per nursing course in the College of Nursing.

Students who voluntarily withdraw from a nursing course a subsequent time will have their withdrawal reversed and will be expected to complete the course. Students planning to withdraw from any course are advised to speak with a student advisor regarding the implications of this decision. Any financial implications will be the responsibility of the student.

Attendance

Regular attendance at class is expected of all students in all courses. Attendance in on-line courses will be interpreted as regular and consistent participation in the course. Attendance in the clinical practice/laboratory portions of nursing courses is mandatory to enable the student to satisfy the evaluative criteria of the theoretical and practical components of courses. Students absent from class or practice due to illness may be required to present a certificate of illness. This certificate must be signed by a recognized health care provider. Absence for compassionate reasons is considered on an individual basis. Where absence is involved, make-up time may be required.

A course leader may initiate procedures to debar a student from attending classes and from final examinations and/or from receiving credit where unexcused absences exceed those permitted by college regulations.

Debarment Policy

A student may be debarred from class, clinical practice, laboratories, and examinations by action of the Associate Dean, Undergraduate Programs for persistent non-attendance, unsafe clinical practice, and/or failure to produce assignments to the satisfaction of the instructor. Once the debarment process has been initiated, the student will not be able to voluntarily withdraw from the course that is presently under investigation. Students so debarred will have failed that course.

Failures in Nursing Courses

Students will be permitted to repeat a nursing course only once following a failure. Withdrawal from the program will be required following a second failure in the same nursing course. Students who fail the same Nursing course twice and are required to withdraw from the College of Nursing are ineligible for re-admission to the College of Nursing.

Professional Unsuitability By-Law

The Senate of the University has approved a by-law granting authority to the College to require a student to withdraw for reasons of professional unsuitability. A student may be required to withdraw from the College when, at any time, the College Council, through the Professional Unsuitability By-Law, believes the student to be unsuited for the profession of nursing, on general considerations of scholarship, professional fitness or professional conduct.

Copies of this by-law may be obtained from the College of Nursing website, umanitoba.ca/nursing. See chapter, General Academic Regulations and Requirements.

Clinical Agency Requirements

Immunizations

Immunizations are a requirement mandated by the Regional Health Authorities.

New students enrolling in the BPRN must provide proof of current immunization by July 15. Once admitted to the College of Nursing, students are required to maintain an up-to-date immunization status. See Penalty for Non-Compliance of Immunization and CPR section. Students should keep a copy of their immunization records and retrieve their immunization records from their files upon graduation.

Cardiopulmonary Resuscitation Certification (CPR)

All students must be certified at the Health Care Provider (HCP) Level. Newly admitted students must submit proof of certification to the Student Services Assistant or designate by July 15. Thereafter, registered nurses are to maintain current certification at the required level.

Penalty for Non-Compliance of Immunization and CPR

Students who do not comply with the deadlines for proof of current CPR and/or immunizations will be placed on hold status, which blocks the student from the registration system. Students on hold status will be permitted to register after all documentation has been received. Hold status also prevents receipt of refunds or histories/transcripts from the Registrar's Office, attending clinical practice and graduation. Students who register after the initial registration period may not be able to register in some or all of the courses they had originally planned to take, and may experience a delay in completing the program.

Criminal Record Check/Child Abuse Registry Check/Adult Abuse Registry Check

Students are required to hold active registration with the CRNM which further requires a yearly self-declaration of any criminal charges or convictions. In addition, at any time prior to completing the BPRN (regardless of admission date), students charged with, or convicted of, a criminal offence or listed on the Child Abuse Registry or the Adult Abuse Registry are required to report this information to the Associate Dean, Undergraduate Programs, College of Nursing. Failure to report a criminal offence may result in dismissal from the program. Criminal offences will be reviewed by the College of Nursing for the implications of the conviction in

view of the professional mandate to protect the public. A listing on the Child Abuse Registry or failure to report the listing will result in dismissal. In addition, please note that some clinical practice sites require that students complete a current or additional Criminal Record Check and/or a Child or Adult Abuse Registry check.

Name Tags

Students are required to wear a University of Manitoba, College of Nursing name tag during clinical/project courses when meeting with patients or clients.

SECTION 4: Bachelor of Nursing

4.1a Bachelor of Nursing Program

Non-nursing courses must be completed within 10 years; and nursing courses must be completed within 5 years of admission to the program in order to be eligible for admission and advanced standing (transfer credit).

This program can be done by full-time and part-time study.

All courses from any given year are to be completed before proceeding to the next year.

University 1 (30 credit hours)

(pre-nursing)

| | | |
|--------------------------|------------------------------|----------|
| BIOL 1410 | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| MBIO 1220 | Essentials of Microbiology | 3 |
| Science Electives | | 9 |

Electives Any combination of the following courses/ subjects for a total of 12 credit hours 12

| | |
|------------------------------------|---|
| Social Sciences or Humanities | (6-12 cr.hrs) |
| NURS 1280 | Introduction to Nursing (3 cr. hrs) |
| NURS 2610 | Health and Physical or KIN 2610 Aspects of Aging (3 cr.hrs) |
| REC 2650 or SWRK 2650 or HMEC 2650 | Social Aspects in Aging (3 cr.hrs.) |
| NURS 1500 | Preparing for Professional Nursing Education (3 cr.hrs) |

Year 2 (31 credit hours)

Term 1

| | | |
|-----------|--|---|
| NURS 2500 | Health and Illness 1: Pathophysiology/Pharmacology/Assessment | 6 |
| NURS 2510 | Client and Context 1: Human Growth and Development | 2 |
| NURS 2518 | Health and Illness 2: The Older Client | 3 |
| NURS 2530 | Nursing Skills 1 | 1 |
| NURS 2520 | Professional Foundations 1: Development of Professional Identity | 2 |
| NURS 2540 | Nursing Practice 1 | 2 |

Term 2

| | | |
|-----------|---|---|
| NURS 2514 | Health and Illness 1: Pathophysiology/Pharmacology/Health Assessment | 6 |
| NURS 2522 | Client and Context 2: Human Diversity | 3 |
| NURS 2532 | Nursing Skills 2 | 1 |
| NURS 2542 | Nursing Practice 2 | 3 |
| HNSC 2170 | Nutrition for Health Professionals | 2 |

Year 3 (30 credit hours)**Term 1**

| | | |
|-----------|--|---|
| NURS 3510 | Client and Context 3: Supportive and Palliative Care | 3 |
| NURS 3512 | Health and Illness 4: Acute and Chronic Illness | 5 |
| NURS 3520 | Professional Foundations 2: Health Education | 2 |
| NURS 3530 | Nursing Skills 3 | 1 |
| NURS 3540 | Nursing Practice 3 | 4 |

Term 2

| | | |
|-----------|---|---|
| NURS 3514 | Health and Illness 5: Mental Health and Illness | 3 |
| NURS 3532 | Nursing Skills 4 (see Note 8) | 1 |
| NURS 3542 | Nursing Practice 4 | 4 |
| NURS 3550 | Professional Foundations 3: Evidence Informed Practice in the Health Sciences | 4 |
| NURS 3560 | Professional Foundations 4: Law and Ethics in Nursing Practice | 3 |

Year 4 (36 credit hours)**Term 1**

| | | |
|-----------|--|---|
| NURS 4500 | Health and Illness 6: Gender and Reproductive Health | 3 |
| NURS 4510 | Client & Context 4: Family Health | 3 |
| NURS 4520 | Professional Foundations 5: Interprofessional and Collaborative Practice | 3 |
| NURS 4530 | Nursing Practice 5 | 4 |

Term 2

| | | |
|-----------|--|---|
| NURS 4540 | Health and Illness 7: Community and Population Health | 5 |
| NURS 4550 | Professional Foundations 6: Leadership and Change Management | 4 |
| NURS 4560 | Professional Foundations 7: Preparation for Nursing Practice 7 | 1 |
| NURS 4570 | Nursing Practice 6 | 4 |

Term 3

| | | |
|-----------|--------------------|---|
| NURS 4580 | Nursing Practice 7 | 9 |
|-----------|--------------------|---|

All other courses in the curriculum must be successfully completed and the grade posted prior to starting NURS 4580.

Any costs incurred in completing this course are the responsibility of the student. A student's chosen area for completion of practicum experience must be approved by the College of Nursing. The location of the practicum must meet the approval of the University of Manitoba. The location of the practicum is subject to change in the event approval is not received. There may be organizations which require contractual arrangements with the student and/or University of Manitoba prior to permitting the student to enter into the practicum experience. There is no guarantee the University of Manitoba will enter into such contractual arrangements to permit the student to carry out practice at a particular agency or site. In such cases, the student should be prepared to choose an alternate agency or site.

NURS 4560 Professional Foundations 7: Preparation for Nursing Practice 7

Preparation for Nursing Practice 7 must be completed in the term just prior to taking NURS 4580: Nursing Practice 7. Therefore, students who fail or withdraw from any of the following courses: NURS 4540: Health and Illness 8: Community and Population Health; NURS 4550: Professional Foundations 6: Leadership and Change Management; or NURS 4580: Nursing Practice 7 must also repeat NURS 4560: Professional Foundations 7: Preparation for Nursing Practice 7, even if it was successfully completed, in order that they are taking the course in the term just before NURS 4580: Nursing Practice 7.

In the instance where a student is required to repeat NURS 4560: Professional Foundations 7, the requirement that the Professional Foundations 7 be completed as a co-requisite of NURS 4570: Nursing Practice 6 will be waived.

Reminder: It is the responsibility of the student to ensure that degree requirements are met. It is the responsibility of students to ensure all program requirements have been met before working as a graduate nurse and/or writing the NCLEX to become a Registered Nurse. In order to be eligible to work as a graduate nurse and/or write the NCLEX, students must meet all program requirements and requirements of the College of Registered Nurses of Manitoba.

4.1b Available Options**Inter-Faculty Option in Aging (Bachelor of Nursing only)**

Inter-Faculty Option in Aging courses are offered by the following Colleges and Faculties: Arts; Nursing; Kinesiology and Recreation Management; and Social Work. To complete the Inter-College Option in Aging, students will complete a total of 18 credit hours including each of the following:

- Required Courses (six credits). See the Registration Guide for the current course number being offered.
 - a) IDES 2650 /HMEC 2650/REC 2650/SWRK 2650 The Social Aspects of Aging (3 credit hours)
 - b) NURS 2610/KIN 2610 Health and Physical Aspects of Aging (3 credit hours)
 - Electives (12 credit hours).
- a) At least three credits of professional/discipline-specific applied work on aging within the student's faculty of registration; and

b) An additional nine credit hours in aging electives from the participating faculties. Students can take nine credit hours from their own faculty but are encouraged to select offerings from other faculties. Lists of eligible elective courses are available from the student advisors.

- The nursing option in aging elective is NURS 2200 Topics in Aging.

Upon completion of these requirements, the "Option in Aging" comment will be recorded on the student's transcript. Information on the Inter-Faculty Option in Aging is available from a student advisor.

4.2 Baccalaureate Program for Registered Nurses (BPRN)

Effective in Fall 2019, admission intake has been suspended.

The College of Nursing BPRN was developed to recognize and value the knowledge and experience of practicing Registered Nurses. The learner-centred, process curriculum is designed to further the capacity of Registered Nurse practice in an ever-changing and increasingly complex health care system.

The curriculum consists of a minimum of 36 credit hours in Nursing, and 9 credit hours from Arts, Science or a professional faculty (for a total of 45 credit hours).

Students may elect full-time or part-time study. A variety of community settings are utilized for clinical experience. Courses may be offered in late afternoons or evenings, during Summer session and through distance education (correspondence) or internet-based study.

Students graduating with the minimum of 45 credit hours of coursework will be considered on an individual basis for admission to the graduate program in Nursing (Master of Nursing). For further information, contact the College of Nursing, 204-474-7452.

4.2.1 Special Student Status in Nursing

Students who are not admitted to the BPRN, may be eligible to apply to the College of Nursing as a special student. Once admitted, students may register in University of Manitoba courses. Following are the guidelines for special student status:

- Special Students are allowed to register for a maximum of 15 credit hours.
- Special Students must obtain a minimum of "C" grade in a course in order to transfer credit into the BPRN.
- A nursing course completed as a special student may be accepted subsequently for credit in the BPRN up to five years from the date of completion.

Prior to registering for a nursing course, all special students must obtain written permission from a College of Nursing student advisor and present a photocopy of their current Active Practising Membership with the College of Registered Nurses of Manitoba or other jurisdiction.

Completion of courses as a special student does not guarantee admission into the BPRN. All students must complete the application forms and submit required information by the application deadline for the term in which students are applying, unless otherwise indicated at the time of application.

The College of Nursing will allow Registered Nurses admitted to another faculty at the University of Manitoba or another university to register for a maximum of 15 credit hours of nursing courses prior to being admitted to

the College of Nursing. Written permission must be obtained from a student advisor and does not guarantee space in the course.

4.2.2 BPRN - Curriculum

Note: Nursing electives may not be offered every year.

| Course No. | Core Courses: | |
|------------------------------------|---|----|
| NURS 3430 | Seminar in Professional Nursing Foundations (see Note 1) | 2 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| NURS 3550 | Professional Foundations 3: Evidence Informed Practice in the Health Sciences | 4 |
| NURS 3220 | Community Health Nursing 1 (see Notes 4 and 5) | 4 |
| NURS 3520 | Professional Foundations 2: Health Education | 2 |
| NURS 4210 | Independent Study in Nursing Practice | 4 |
| NURS 3560 | Professional Foundations 4: Law and Ethics in Nursing Practice | 3 |
| NURS 4550 | Professional Foundations 6: Leadership and Change Management | 4 |
| Nursing Electives (see Note 2) | | 10 |
| Non-Nursing Electives (see Note 3) | | 9 |

Nursing Electives

10 credit hours of acceptable Nursing electives are to be chosen from the following list – at least one course chosen must be a 4 credit hour course.

| | |
|--|--|
| NURS 2110 Health Assessment of Individuals (3) | |
| NURS 2200 Topics in Aging (3) | |
| NURS 3200 Nursing of Individuals and Families with Long-Term Illness and Disability (4) | |
| NURS 3230 Perspectives on Mental Health Nursing (4) | |
| NURS 3330 Women and Health (3) | |
| NURS 2510 Client and Context 2: Human Diversity (3) | |
| NURS 3350 Counselling Skills for Nurses (3) | |
| NURS 3390 Nursing in Rural Environments (4) | |
| NURS 3400 Men's Health: Concerns, Issues and Myths (3) | |
| NURS 4160 Community Health Nursing 2 (4) | |
| NURS 3510 Client and Context 3: Supportive and Palliative Care (3) | |
| In addition, the following courses from the Inter-Faculty Option in Aging are acceptable as Nursing electives: | |
| NURS 2610 / KIN 2610 Health and Physical Aspects of Aging (3) | |
| SWRK 2650/ IDES 2650/ HMEC 2650/ REC 2650 The Social Aspects of Aging (3) | |

NOTES:

1) NURS 3430 should be taken in the first 12 credit hours of the program. Students who have credit for the previous NURS 3190 may substitute this course for NURS 3430.

2) Nursing electives may be used to customize a student's program. Electives may be used to expand on a number of different areas of nursing or may be used to focus on a particular area of nursing practice.

3) Of the 9 credit hours of non-Nursing electives, no more than 6 credit hours may be at the 1000 (introductory) level. See section 5.4 for suggestions re: Non-Nursing Electives for the BPRN. Students may not take courses for credit for which it is assumed that the content was covered in the diploma nursing program (i.e., Anatomy, Physiology, Microbiology, Pharmacology, Psychology, Sociology, etc.).

4) Graduates of the DNA program at Red River College are required to substitute a 4 credit hour Nursing clinical course for NURS 3220.

5) NURS 3360 and NURS 4300 are no longer offered. Students who have previously completed either course within 5 years prior to admission to the College of Nursing may use NURS 3360 in place of NURS 3220 and/or NURS 4300 as a nursing elective.

4.2.3 Clinical Courses and NURS 3200 (Long Term Illness) and NURS 4210 (Independent Study) for the BPRN

Review section 3.1 Regulations for All Students which contains information regarding the Personal Health Information Act (PHIA), immunization and CPR regulations, and other information specific to clinical practice.

A clinical project course (normally designated by the fact that it is a 4 credit hour project based course) involves a heavier workload and time commitment than a 3 credit hour course. For most of these courses, clinical placements/assignments will be arranged between the course leader and student at or prior to the start of a term.

NURS 3200 (Long Term Illness), students must contact the course leader at least three months prior to the start of classes to state their intention to register for this course and to discuss preference of clinical sites. Placement sites will be arranged as requested by the student on a first-come, first-served basis according to the availability of the agency. Registration in this course is restricted to students who have contacted the course leader.

NURS 4210 Independent Study in Nursing

The Independent Study in Nursing is designed to provide the learner with an opportunity to synthesize previous learning while working with a high degree of independence. Under the guidance of a faculty advisor, students explore a topic of their choosing and design learning objectives consistent with the purpose of the course. Students are required to contact the course leader at least 8 weeks prior to the start of the course to select a topic and faculty advisor. The choice of topic, the proposed plan for completion of the Independent Study, and the faculty advisor must all be approved by the College of Nursing.

Information sessions are scheduled, normally in April for the Fall session and in October for the Winter session, to familiarize students with the course. Students should check the College's web page, BPRN section, for announcements about dates and times.

If a practice setting is required as part of the student's learning objectives, the student is responsible for negotiating access to the setting and addressing agency and faculty requirements. Be advised that there may be organizations which require contractual arrangements with the student and/or the University of Manitoba prior to permitting the student to enter

the practice setting. These arrangements are subject to approval by the College and require pre-planning.

Note: the prerequisite for this course is 35 credit hours of completed study in the program.

4.2.4 Courses Which May be Used as Non-Nursing Electives in the BPRN

Courses may be selected from any faculty or school of the University, subject to faculty/department regulations and subject to the student's meeting any prerequisite requirements. See Note 4 under 4.4 BPRN Curriculum. Some suggestions follow:

Faculty of Arts courses - e.g. anthropology, native studies, psychology, sociology, religion

Asper School of Business (Management) - e.g. courses in business administration, management, organizational behaviour

Faculty of Kinesiology and Recreation Management

Faculty of Science - e.g. biology, chemistry, computer science, microbiology, zoology

Faculty of Social Work - e.g. courses in social welfare policy, communication skills

4.3 Courses Available to Students in Other Faculties

Students registered in faculties other than Nursing may take the following Nursing courses without College permission:

NURS 2200 Selected Topics in Aging and Health

NURS 3330 Women and Health

NURS 3400 Men's Health: Concerns, Issues and Myths

NOTE: These courses are not intended for first year students.

SECTION 5: Nursing Course Descriptions-1000 Level

NURS 1500 Preparing for Professional Nursing Education

Cr. Hrs. 3

Students will develop knowledge, skills, attitudes, and approaches to learning that increases their opportunity for success in baccalaureate nursing education. Restricted to the students in the Aboriginal Cohort in Nursing program.

SECTION 5: Nursing Course Descriptions-2000 Level

NURS 2110 Health Assessment of Individuals

Cr. Hrs. 3

Description The focus is on health assessment of adults including the normal changes which occur in childhood and aging. The course will provide opportunity to learn the health history and physical examination skills essential to health assessment.

NURS 2200 Selected Topics in Aging and Health

Cr. Hrs. 3

Emphasis will be placed on theory and research related to a current topic in aging and health. Special attention will be directed to integrating concepts and processes of aging. A practicum/field work component will be an integral part of the course. Prerequisite: core courses in the Inter-faculty Option in Aging or permission from the course leader.

NURS 2500 Health and Illness 1: Pathophysiology/Pharmacology/Assessment **Cr. Hrs. 6**

This course provides students with a comprehensive survey of selected pathophysiological processes that produce alterations in human health, and the related pharmacological interventions and health assessment techniques. May not be held with the former NURS 2120, the former NURS 2220, the former NURS 3290, or the former NURS 3310.

NURS 2510 Client and Context 1: Human Growth & Development **Cr. Hrs. 2**

This course provides students with knowledge of normal human growth and development across the lifespan. May not be held with NURS 1260. Registration is normally restricted to students in Year 2 of the program.

NURS 2514 Health and Illness 3: Pathophysiology/Pharmacology/Assessment **Cr. Hrs. 6**

This course provides students with a comprehensive survey of selected pathophysiological processes that produce alterations in human health, and the related pharmacological interventions and health assessment techniques. May not be held with the former NURS 2120, the former NURS 2220, the former NURS 3290 or the former NURS 3310. Prerequisite: NURS 2500. Registration is normally restricted to students in Year 2 of the program.

NURS 2518 Health & Illness 2: The Older Client **Cr. Hrs. 3**

This course provides students with knowledge of the age-related changes and illnesses experienced by older adults. It introduces students to health problems commonly occurring in this age group. Nursing strategies to encourage, maintain and enhance functional abilities and independence in older adults in the context of long term care are evaluated. May not be held with NURS 2230 or NURS 2512. Pre- or co-requisites: NURS 2500 or NURS 2510. Registration is normally restricted to students in Year 2 of the BN program.

NURS 2520 Professional Foundations 1: Development of Professional Identity **Cr. Hrs. 2**

Description This course provides the student with an introduction to the conduct, knowledge and values that characterize a professional registered nurse. Registration is normally restricted to students in Year 2 of the program.

NURS 2522 Client & Context 2: Human Diversity **Cr. Hrs. 3**

This course provides students with knowledge of the social factors that enhance or diminish the health of individuals, families and communities. Students will also analyze the concept of client-centred care and its relevance in the practices of health care professionals. May not be held with NURS 2516. Pre- or co-requisites: NURS 2500 and NURS 2520. Registration is normally restricted to students in Year 2 of the BN program.

NURS 2530 Nursing Skills 1 **Cr. Hrs. 1**

This course introduces students to the basic health assessment and psychomotor skills necessary to provide novice-level nursing care in the practice setting. May not be held with NURS 2120 and NURS 2130. Pre-or Corequisite: NURS 2500. Registration is normally restricted to students in Year 2 of the program. This course is graded on a Pass/Fail Basis.

NURS 2532 Nursing Skills 2 **Cr. Hrs. 1**

This course introduces students to the basic health assessment and psychomotor skills necessary to provide novice-level nursing care in the practice setting. May not be held with NURS 2120 and NURS 2130. Prerequisites: NURS 2530 and NURS 2540. Pre- or Co-requisite: NURS 2514. Registration is normally restricted to students in Year 2 of the program. This course is graded on a Pass/Fail Basis.

NURS 2540 Nursing Practice 1 **Cr. Hrs. 2**

This course enables students to demonstrate clinical competence by applying the theoretical knowledge, psychomotor skills and health assessment skills covered in Year 1 Term 1 courses in the practice setting.

Pre- or co-requisites: NURS 2500, NURS 2510, NURS 2518 (or the former NURS 2512), NURS 2520 and NURS 2530. Registration is normally restricted to students in Year 2 of the program. This course is graded on a pass/fail basis.

NURS 2542 Nursing Practice 2 **Cr. Hrs. 3**

This course enables students to demonstrate clinical competence by applying the theoretical knowledge, psychomotor skills and health assessment skills covered in Year 1 Term 2 courses in the practice setting. May not be held with NURS 2190. Pre- or co-requisites: NURS 2514, NURS 2522 (or the former NURS 2516), and NURS 2532. This course is graded on a pass/fail basis.

NURS 2610 Health and Physical Aspects of Aging **Cr. Hrs. 3**

An introduction to health, well-being and aging. Emphasis on health as multidimensional including physical, social and mental health. Integration of theory and research in examining selected issues related to health and physical aspects of aging. May not be held with NURS 2610 and PHED 2610. (A required Option in Aging course)

SECTION 5: Nursing Course Descriptions-3000 Level**NURS 3200 Nursing of Individuals and Families with Long-Term Illness and Disability** **Cr. Hrs. 4**

Nursing of individuals and families of all age groups who require palliative nursing measures or need assistance in adapting to long-term illness. The learner will participate in planning relevant clinical experiences to meet own learning objectives.

NURS 3220 Community Health Nursing I **Cr. Hrs. 4**

An analysis of concepts of prevention of disease/dysfunction and promotion of health in community based populations. Focus is on primary and secondary prevention and the promotion of health with identified risk groups. Population groups are assessed for risks to their physical and psychosocial health and current preventive and promotive measures analyzed and critiqued. The impact of macro systems in promoting health are discussed. MNHW NURS 3360.

NURS 3230 Perspectives on Mental Health Nursing **Cr. Hrs. 4**

Emphasis will be placed on the mental health needs of individuals and their families who are experiencing mental health problems and/or mental illness. Diverse perspectives on mental health and illness will be explored. A clinical practicum will provide an opportunity to apply mental health nursing principles in community settings.

NURS 3330 Women and Health **Cr. Hrs. 3**

Introduction to health concepts and issues as they relate to women from a woman's health perspective. Emphasis on enhancing self-care and prevention. Studies the relationship between a woman and the Canadian Health Care System, and appropriate methodology for self-care, vis-a-vis nutrition, reproduction, menarche, menopause, etc. Caution: This course is not intended for 1st year students.

NURS 3350 Counselling Skills for Nurses **Cr. Hrs. 3**

Builds on the significance of interpersonal skills in nursing practice in health and illness. Examines theoretical basis and practical application of a counselling approach with clients. Students will have the opportunity for experiential learning.

NURS 3390 Nursing in Rural Environments **Cr. Hrs. 4**

Emphasis will be placed on the health needs of residents in a rural environment. The nature of nursing and issues encountered in a rural setting, whether in a health care institution or a community health nursing practice are explored. A clinical practicum is an integral part of the course.

NURS 3400 Men's Health: Concerns, Issues and Myths Cr. Hrs. 3

An exploration and examination of concerns, issues and myths surrounding men's health and men's health related behaviours. Students will develop a knowledge base for promoting health and preventing illness in men.

NURS 3430 Seminar in Professional Nursing Foundations Cr. Hrs. 2

The study and application of academic skills, nursing informatics and theoretical foundations, designed to assist diploma-prepared registered nurses to successfully transition to university and the Baccalaureate Program for Registered Nurses. May not be held with NURS 3190.

NURS 3450 Introduction to Legal and Ethical Foundations of Nursing Practice Cr. Hrs. 3

The legal and ethical foundations that guide nursing practice are examined. The process of critical analysis and reasoning will be applied to common legal and ethical issues.

NURS 3510 Client and Context 3: Supportive and Palliative Care Cr. Hrs. 3

This course provides students with the knowledge and critical thinking skills to provide supportive and palliative nursing care to individuals and families experiencing a variety of life-threatening illnesses including end of life. May not be held with the former NURS 4250. Prerequisites: HNSC 2170 and NURS 2542. Registration is normally restricted to students in Year 3 of the program.

NURS 3512 Health and Illness 4: Acute and Chronic Illness Cr. Hrs. 5

This course provides students with the knowledge and critical thinking skills necessary to provide nursing care to individuals and families experiencing acute and chronic illness. May not be held with the former NURS 3290 or the former NURS 3310. Prerequisites: HNSC 1210 and NURS 2542. Registration is normally restricted to students in Year 3 of the program.

NURS 3514 Health and Illness 5: Mental Health and Illness Cr. Hrs. 3

This course provides students with the knowledge and critical thinking skills necessary to provide nursing care to individuals and families experiencing acute and chronic mental illness and/or mental health problems. May not be held with the former NURS 4260. Prerequisites: NURS 3512, NURS 3510 and NURS 3540. Registration is normally restricted to students in Year 3 of the program.

NURS 3520 Professional Foundations 2: Health Education Cr. Hrs. 2

This course provides students with the knowledge and skills necessary to provide health information to clients across the lifespan in a variety of settings in both planned and spontaneous situations. Emphasis will be placed on client assessment and the appropriate use of existing health information resources. May not be held with NURS 2230 or NURS 4200. Prerequisite: NURS 2542. Registration is normally restricted to students in Year 3 of the program.

NURS 3530 Nursing Skills 3 Cr. Hrs. 1

This course introduces students to the basic health assessment and psychomotor skills necessary to provide intermediate-level nursing care in the practice setting. May not be held with the former NURS 3280. Prerequisites: NURS 2542. Registration is normally restricted to students in Year 3 of the program. This course is graded on a Pass/Fail basis.

NURS 3532 Nursing Skills 4 Cr. Hrs. 1

This course provides students with the opportunity to consolidate the health assessment and psychomotor skills necessary to attain proficiency in the provision of nursing care. May not be held with NURS 3280. Prerequisite: NURS 3540. Pre- or Co-requisite: NURS 3514. Registration is

normally restricted to students in Year 3 of the BN program. This course is graded on a pass/fail basis.

NURS 3540 Nursing Practice 3 Cr. Hrs. 4

This course enables students to demonstrate clinical competence by applying the theoretical knowledge, psychomotor skills and health assessment skills covered in Year 3 Term 1 courses in the practice setting. May not be held with the former NURS 3300, the former NURS 3310, or the former NURS 4270. Pre- or Co-requisites: NURS 3512, NURS 3510, NURS 3520, and NURS 3530. Registration is normally restricted to students in Year 3 of the program. This course is graded on a Pass/Fail basis.

NURS 3542 Nursing Practice 4 Cr. Hrs. 4

This course enables students to demonstrate clinical competence by applying the theoretical knowledge and simulation skills covered in Year 3 Term 2 courses in the practice setting. May not be held with the former NURS 3300, the former NURS 3310, or the former NURS 4270. Pre- or Co-requisites: NURS 3514, NURS 3550, NURS 3560 and NURS 3532. Registration is normally restricted to students in Year 3 of the program. This course is graded on a Pass/Fail basis.

NURS 3550 Professional Foundations 3: Evidence Informed Practice in the Health Sciences Cr. Hrs. 4

This course provides students with the knowledge and skills to locate and critically appraise nursing and health care literature, and to make decisions about how research knowledge can be transferred into nursing and health care practice. May not be held with the former NURS 3210. Prerequisite: NURS 2542. Registration is normally restricted to students in Year 3 of the program.

NURS 3560 Professional Foundations 4: Law and Ethics in Nursing Practice Cr. Hrs. 3

This course provides the student with knowledge regarding the legal and ethical foundations that guide nursing practice. May not be held with NURS 3450 or NURS 4220. Prerequisite: NURS 2542. Registration is normally restricted to students in Year 3 of the program.

SECTION 5: Nursing Course Descriptions-4000 Level

NURS 4160 Community Health Nursing II Cr. Hrs. 4

Application, integration and synthesis of knowledge and skills in the utilization of the nursing process with families. Development of skills in the process of change with families. Orientation to the concept of prevention and health promotion as focal concepts in the practice of nursing with families in communities. Pre- or co-requisite: NURS 3220. May not be held with NURS 4300.

NURS 4170 Issues and Trends in Nursing and Health Care Cr. Hrs. 3

Study of the forces shaping nursing education, service and research and analysis of current issues in nursing and health care. The learner will develop awareness of professional nursing roles and responsibilities.

NURS 4190 Leadership in Nursing Practice Cr. Hrs. 3

Focuses on selected theories of leadership and management. Effective interpersonal behaviour in health care organizations will be examined. The learner will explore own potential to effect change in the health care system.

NURS 4210 Independent Study in Nursing Cr. Hrs. 4

The learner will have an opportunity to formulate a learning contract to explore, in depth, an area of nursing. This learning contract is to include a major emphasis on the theoretical basis of the selected topic. Prerequisite: 35 credit hours of completed study in the program.

NURS 4290 Clinical Practicum Cr. Hrs. 10

This course enables students to integrate and critically apply concepts, theories and relevant research to an area of practice and a client group of their choice. Care will address all levels of health, reflect application of a focused body of theory, and consider concepts of leadership, research, ethics, family and community care. Prerequisites: all courses in the program. Course is evaluated on a pass/fail basis.

NURS 4500 Health and Illness 6: Gender and Reproductive Health **Cr. Hrs. 3**

This course provides students with the knowledge and critical thinking skills to provide nursing care in response to the social construction of gender; gender-related health care needs; and the reproductive health needs of individuals and families. May not be held with NURS 2240. Prerequisite: NURS 3542. Registration is normally restricted to students in Year 4 of the program.

NURS 4510 Client and Context 4: Family Health **Cr. Hrs. 3**

This course provides students with the knowledge and critical thinking skills to support the health promotion of families across the lifespan. May not be held with NURS 2240. Prerequisite: NURS 3542. Registration is normally restricted to students in Year 4 of the program.

NURS 4520 Professional Foundations 5: Interprofessional and Collaborative Practice **Cr. Hrs. 3**

This course provides students with the knowledge, attitudes and skills necessary to collaborate with other care providers, including those from other health care disciplines, to problem solve and make decisions to enhance client care outcomes. For Bachelor of Nursing students: Prerequisite: NURS 3542. Registration is normally restricted to students in Year 4 of the program. For Baccalaureate Program for Registered Nurses students: permission of the College of Nursing Registrar. For students in the Faculties of Health Sciences; Social Work; Education; Kinesiology and Recreation Management; Arts, Department of Psychology; and Faculty of Agricultural and Food Sciences, Department of Human Nutritional Sciences: completion of at least Year 3 of their program and permission of the Nursing Registrar. Students from other faculties and programs interested in taking this course will be considered on a case-by-case basis.

NURS 4530 Nursing Practice 5 **Cr. Hrs. 4**

This course enables students to demonstrate clinical competence by applying the knowledge and skills covered in Years 2 and 3 and Term 1, Year 4 courses, in the clinical setting. May not be held with NURS 2180. Pre- or Co-Requisites: NURS 4500, NURS 4510, NURS 4520. Registration is normally restricted to students in Year 4 of the program. This course is graded on a pass/fail basis.

NURS 4540 Health and Illness 7: Community and Population Health **Cr. Hrs. 5**

This course provides students with the knowledge and critical thinking skills to work with groups and communities to support population based health promotion and disease prevention. May not be held with the former NURS 4420 or the former NURS 4440. Prerequisite: NURS 4530. Registration is normally restricted to students in Year 4 of the program.

NURS 4550 Professional Foundations 6: Leadership and Change Management **Cr. Hrs. 4**

This course provides the student with knowledge regarding contemporary issues in nursing and health care, and the forces that shape contemporary and future nursing practice. Emphasis is placed on leadership development, change theory and critical inquiry. May not be held with the former NURS 4310. Prerequisite: NURS 3542. Registration is normally restricted to students in Year 4 of the program.

NURS 4560 Professional Foundations 7: Preparation for Nursing Practice 7 **Cr. Hrs. 1**

This course will enable students, in collaboration with the course leader, to assess their readiness for NURS 4580: Nursing Practice 7 and to remediate any knowledge or skill deficits identified during the assessment process. Students will also complete all requirements necessary for the selection and confirmation of the clinical setting in which they will complete NURS 4580: Nursing Practice 7. Co-requisite: NURS 4570. Registration is normally restricted to students in Year 4 of the program. This course is graded on a pass/fail basis.

NURS 4570 Nursing Practice 6 **Cr. Hrs. 4**

This course enables students to demonstrate clinical competence by applying knowledge and skills covered in Years 2, 3 and 4 courses in the clinical setting. May not be held with the former NURS 4430. Prerequisite: NURS 4530. Pre- or Co-requisites: NURS 4540 and NURS 4550. Co-requisite: NURS 4560. Registration is normally restricted to students in Year 4 of the program. This course is graded on a pass/fail basis.

NURS 4580 Nursing Practice 7 **Cr. Hrs. 9**

This course enables students to consolidate the knowledge, skills, and attitudes included in the Bachelor of Nursing program and achieve the CRNM entry-level competencies. May not be held with NURS 4290. Registration in this course is dependent on the completion of all other courses in the program. This course is graded on a pass/fail basis.

College of Pharmacy

Dean: Dr. Lalitha Raman-Wilms
 Associate Dean (s): Dr. Lavern Vercaigne, Dr. Hope Anderson
 Campus Address/General Office: Apotex Centre, 750 McDermot Avenue
 Email Address: pharmacy@umanitoba.ca
 Telephone: (204) 474-9306
 Fax: (204) 789-3744
 Website: <http://umanitoba.ca/faculties/pharmacy>
 Academic Staff: Please refer to the College website for an Academic Staff listing: http://umanitoba.ca/faculties/pharmacy/staff/academic_staff.html

Pharmacists are specialists in drug therapy and provision of pharmaceutical care. This not only involves the traditional function of preparing and dispensing medications but also includes designing and monitoring drug therapy plans to optimize patient care. The College of Pharmacy has been educating pharmacists for over one hundred years. It has dynamic faculty members characterized by their teaching expertise, research programs and practice partnerships in the health sciences. Members of the College are internationally recognized through their participation in research and various committees and agencies. Their research is funded through a variety of sources including, CIHR, NSERC, Research Manitoba, various other government agencies, and the pharmaceutical industry.

The undergraduate pharmacy program is meant to prepare students for entry-level practice in the profession of pharmacy by providing them with a solid foundation in the basic, pharmaceutical and clinical sciences which is applied to the provision of patient care. In addition, the program is designed to provide students with a broad experience in patient care through experiential placements in health orientated settings, hospital, and community pharmacies. The experience is further enhanced with an open elective program in the final year of studies.

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SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | *Years to Complete | *Total Credit Hours |
|----------------|--------------------|---------------------|
| B.Sc. Pharmacy | 5* ¹ | 166 * ¹ |
| PharmD | 6 * ² | 204 * ² |

*¹ This includes one year (30 credit hours) of pre-requisite courses.

*² This includes two years (60 credit hours) of pre-requisite courses.

Students who were accepted for the fall 2018 intake are being transitioned into the PharmD program. Their total credit hours at graduation will be 203.

1.2 Professional Designation

The College of Pharmacists of Manitoba

Students who are accepted for admission to the College of Pharmacy shall file an application for registration as a student of the College of Pharmacists of Manitoba, prior to the start of classes in September of the year they are admitted. Detailed information will be provided to each student, and can also be obtained from The College of Pharmacists of Manitoba, 200 Tache Ave., Winnipeg, Manitoba R2H 1A7; telephone, (204) 233-1411. Failure to complete this requirement will result in students being unable to participate in the Structured Practice Experiential Program (SPEP).

Full information on the requirements for licensure in the Province of Manitoba is available from the Registrar of The College of Pharmacists of Manitoba.

Pharmacy Examining Board of Canada

All applicants for licensure must pass the qualifying examinations of the Pharmacy Examining Board of Canada. Although PEBC has no language proficiency requirements, Provincial Regulatory Authorities do require these tests and language proficiency does affect candidates' performance in the Qualifying Examination (Part I and Part II). Effective written and verbal communication skills, at levels satisfactory for a health professional, are essential for practice and for success in taking the PEBC examinations.

SECTION 2: Admission Requirements

2.1 Bachelor of Science in Pharmacy

Admissions to the B.Sc. Pharmacy program have been suspended. Please review the admission section for the Pharm.D. program in Section 2.2.

2.2 Doctor of Pharmacy (PharmD)

The following is a summary of the admission requirements. All admission requirements are listed in the [Applicant Information Bulletin](#) that is available on the university's website.

Minimum 60 credit hours of pre-requisite courses including:

CHEM 1300 and CHEM 1310

CHEM 2210

CHEM 2360 and CHEM 2370

BIOL 1020 and BIOL 1030

BIOL 2410 and BIOL 2420

MBIO 1010

MATH 1500 **or** MATH 1230

STAT 1000

12 credit hours of Humanities/Social Sciences courses

12 credit hours of other courses (any faculty)

The Humanities/Social Sciences or other courses must include a 3 credit hour course which will meet the University's Written English (W) requirement.

Other requirements

High school prerequisites: Biology 40S, Chemistry 40S and Pre-Calculus Math 40S

Minimum AGPA for consideration: 3.50.

The admission process includes a written critical skills essay and writing the Pharmacy College Admissions Test (PCAT®).

Selection criteria: 60% AGPA, 10% Written critical skills essay, 30% PCAT®.

Students should be aware that if admitted they must provide an official a current, official Adult Criminal Record Check, an Adult Abuse Registry Check and a Child Abuse Registry Check (see section 4.2). All students enrolled in the College of Pharmacy must be immunized against specific diseases (see section 4.3).

SECTION 3: College Academic Regulations: Bachelor of Science in Pharmacy Program

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the College of Pharmacy has regulations and requirements, published below, that apply specifically to its students.

3.1 Scholastic Progress

For course progression in the College of Pharmacy students must achieve a minimum combined fall and winter term GPA of 2.00, and attain the minimum passing grade of "C" in each course.

A student in any of the first three years of the pharmacy program who records no more than two grades of "D" during the academic year, and who achieves a minimum combined fall and winter term GPA of 2.00, may at the discretion of the dean be permitted to apply for a supplementary examination in those courses.

A student in the fourth year of the pharmacy program who records no more than one grade of "D" during the academic year, and who achieves a minimum combined fall and winter term GPA of 2.00, may at the discretion of the dean be permitted to apply for a supplementary examination in that course.

Application forms for supplementary examinations are available in the College of Pharmacy Dean's Office, and the examination is subject to a prescribed fee. Supplementary exams will normally take place in the following mid-summer examination session each year.

A student who has failed to record a minimum grade of "C" in more than two courses within years one to three of the pharmacy program, or in more than one course in the fourth year of the pharmacy program, or who records a grade of "F" during the academic year at any stage during their program may not be granted supplementary examinations unless the dean by reason of special circumstances applicable to the student's case otherwise decides.

A candidate who has been allowed to sit for a supplementary examination may not be awarded a grade higher than "C" in that course. Grade calculations for any course following supplementary examination will be inclusive of on-course assessment. Grades achieved following supplementary examination will replace those grades originally recorded on the student's academic record.

A student who fails to achieve a passing grade of "C" in one course, following supplementary examination if that option is offered, and who achieves a minimum combined fall and winter term GPA of 2.00, will be required to repeat that course and may at the discretion of the dean be required to repeat all, or a number of courses in that year.

A student whose combined fall and winter term GPA falls below 2.00, or who fails to achieve a minimum passing grade of "C" in two courses, following supplementary examination if that option is offered, and whose combined fall and winter term GPA remains above 1.75, will be considered to have failed that year, and will be required to repeat all subjects in the following academic year.

The records of all students who fail a year, and the disposition of the cases, shall be reported to College Council for information, but not for debate. Students who have cause to disagree with the disposition may file an appeal against the decision.

A student who fails more than one year in the program, or who fails the same year twice, shall be required to withdraw from the Pharmacy program.

A student who fails to achieve a passing grade in more than two courses in the academic session, or whose combined fall and winter term GPA falls below 1.75, or who fails to achieve a passing grade in a repeated year, will be required to withdraw from the Pharmacy program.

3.2 Appeals Concerning Scholastic Progress

Should a student wish to appeal against any decision concerning scholastic progress, the following procedure should be followed:

The problem should be discussed with the Associate Dean (Academic) of Pharmacy, who will supply information about the appeals procedure, academic regulations and related matters.

Students who still wish to proceed with an appeal should consult the office of [Student Advocacy](#) for advice and assistance, and a letter of appeal must be sent to the dean within 21 days of receiving notification of the decision. The letter should state the nature of the decision being appealed and the alternative that is being requested.

The Dean will respond in writing to notify the appellant of the date and time the student should attend a meeting of the College Appeals Committee.

The Appeals Committee will comprise: the Dean of the College (or designate) as chair; one senior support staff member as secretary; three members of the full-time faculty appointed by the full-time faculty; a representative of the profession appointed by the College of Pharmacists of Manitoba. The chair and senior support staff member are non-voting members.

Appellants have the right to attend the hearing of their appeal and may have a representative to assist them at the appeal hearing. This representative may be the Student Advocate or a fellow student or other full-time member of the university community not receiving payment for appearing, or working for Legal Aid. In addition, if the student wishes, one member of his or her immediate family, and also if desired a lawyer, may be present, but as observers who do not participate. The decision of the Appeals Committee will be conveyed to the student as soon as possible after the hearing.

If the appellant is still dissatisfied they may wish to discuss the issue further with [Student Advocacy](#). Student appellants should not expect a favourable decision when their appeal is based on grounds related to external factors such as employment, sports, or hobbies.

3.3 Transfer of Credit Earned Elsewhere

The College of Pharmacy will transfer in external grades in a manner that is consistent with the University of Manitoba policy on the transference of external grades. The relevance of courses completed to the student's educational objective at the University of Manitoba and the quality of academic achievement as evidenced by the student's grades will be determining factors in assessing acceptability of credits earned elsewhere. No transfer of credit will be given for courses taken ten years or more prior to the application date. No transfer of credit will be permitted for courses where a "D" grade (or its percentage equivalent) has been awarded.

3.4 Residence Requirements

A minimum of two years attendance at the university within the College is required for the Bachelor of Science in Pharmacy, except with the permission of the College.

3.5 Attendance at Class

Regular attendance is required of all students in all courses. Students who are absent from class for a period of three days or more due to illness must present a certificate from a physician to the Dean's Office upon their return. An instructor may initiate procedures to debar a student from attending classes and from final examinations where unexcused absences exceed three continuous sessions. Students must obtain prior approval from the Dean for an absence exceeding one day for reasons other than illness.

3.6 Voluntary Withdrawals

Any student seeking to withdraw from a portion of, or all of their courses must provide written notification to the Dean's Office of the reasons for this request. Re-entry to Pharmacy by students who voluntarily withdraw, will be dependent on the availability of space and external rotation facilities. Any student who has voluntarily withdrawn from a portion of, or all of their courses in Pharmacy on more than one occasion will not be permitted re-entry into the program. Withdrawals for medical or compassionate reasons will not contribute toward this maximum. Students who, for medical reasons, withdraw from the program may not re-register until they have established, through proper medical consultation, their fitness to resume studies.

3.7 Deferred Final Examinations

Students may file an application for a deferred final examination with the Dean for reasons of illness or other disability, or for compassionate reasons, setting out the reasons for the deferral. The application must normally be filed within forty-eight (48) hours of the scheduled date of the missed examination or, in a case where more than one examination was missed, within forty-eight (48) hours of the scheduled date of the last examination missed. The application must be accompanied by a medical certificate or otherwise appropriate documentation certifying the reason for the deferral, the inability of the student to write the examination at the regular scheduled time and, where possible, indicating the period of incapacity. Based on the evidence provided, the Dean shall decide whether the application is approved. Students who, for medical reasons receive deferred examination privileges for all final examination series may not re-register until they have established, through proper medical consultation, their fitness to resume studies.

Students may request a deferred examination(s) on the grounds that they are unable to write said examination(s) due to:

- (a) participation in an inter-university, provincial, inter-provincial, national or international scholastic or athletic event
- (b) religious obligations; or
- (c) a medical condition.

Students requesting a deferred examination due to a known condition as listed above must file an application normally twenty (20) working days prior to the day of the scheduled examination.

Any student requesting deferred examination(s) will be required to sign an undertaking that the student has not discussed, reviewed, had access to, or otherwise become aware of the contents of the deferred examination except as expressly authorized by the instructor or professor for the course in which the deferred examination is being undertaken.

3.8 Incompletes

A student who is unable to complete the term work prescribed in a course may apply to the instructor prior to the end of lectures for consideration of a grade classification of "Incomplete". Should an "incomplete" be granted the student will still be required to write the final examination, if one is scheduled for the course, and a temporary grade of "IF" will be submitted. In addition to the grade, the recommendation for an "incomplete" should indicate the reason(s) for consideration being given, a description of the outstanding work to be completed, and the date by which the work must be submitted. If a final grade is not reported by the above maximum extension deadlines, the letter "I" will be dropped and the grade of "F" will remain as awarded, unless where specific circumstances warrant, the Associate Dean (Academic) extends the date by which an Incomplete must be cleared. Instructors must formally request such an extension prior to the elapse of the maximum deadline date. In addition, the Registrar's Office must be notified of the extension.

3.9 Dean's Honour List

Eligible students who achieve a combined fall and winter sessional GPA of 4.00 or higher will be placed on the Dean's Honour List. Eligible students must have completed a minimum of 12.5 credit hours in each of the fall and winter terms. (Exception: Fourth year students must complete a minimum of 10 credit hours during the winter term). The Dean's Honour List designation is not applied until the end of the winter term.

3.10 Academic Self-Declaration

All students accepted into the College of Pharmacy will be required to complete a Self-Declaration of Records Form which declares current or previous academic suspensions and disciplinary actions. The disclosure contained therein must be satisfactory to the College of Pharmacy.

3.11 Experiential Training (Structured Practical Experiential Program [SPEP])

Approved Placement Sites are limited, and the University cannot warrant that it will be able to find sufficient suitable placement sites in convenient locations, in a timely manner or at all. Students are responsible for all costs associated with SPEP, including travel and living expenses where placements are outside Winnipeg.

Under The Workers Compensation Act (Manitoba), students of the University of Manitoba who are engaged in a field practicum as a required part of their program are generally covered for injuries sustained in the course of and arising out of the practice experience. However, where the practicum takes place outside of Manitoba, and the student is not a Manitoba resident, workers compensation coverage may not be extended, based on the provisions of The Workers Compensation Act. However, other insurance coverage may be available to registered students. Students are encouraged to contact the SPEP Coordinator at the earliest opportunity to determine if any such alternative arrangements are possible.

3.12 Academic Honesty

Many courses in the College of Pharmacy require group projects and students should be aware that these are subject to the same rules regarding academic honesty as individual projects. Because of the unique nature of group work, all members of the group should exercise special care to insure that work completed does not violate academic integrity. Should a violation occur, group members will be held jointly accountable unless the violation can be attributed to a specified individual, or group of individuals.

In the College of Pharmacy all suspected cases of academic dishonesty will be passed to the Dean's Office for evaluation.

3.13 Professional Unsuitability By-Law

The Senate has approved a by-law granting authority to the College to require a student to withdraw for reasons of professional unsuitability. Copies of this by-law may be obtained from the College of Pharmacy Dean's Office.

3.14 Completion of the Bachelor Program

The maximum time allowable for completion of the Bachelor of Science, Pharmacy degree is seven years. Students must successfully complete all of the course work associated with a year in the program prior to being allowed to register for courses in the next year. In certain cases, the dean may grant exceptions to this requirement.

SECTION 4: College Academic Regulations: Doctor of Pharmacy (PharmD) Program

4.1 Academic Self-Declaration

All students applying to the College of Pharmacy will be required to complete a Self-Declaration of Records Form which declares current or previous: academic suspensions, disciplinary action, professional misconduct, record of criminal conviction, record on the Child Abuse

Registry and record on the Adult Abuse Registry. The disclosure contained therein must be satisfactory to the College of Pharmacy.

4.2 Criminal Record Check, Child Abuse Check, and Adult Abuse Check

Many health care agencies where Pharmacy students are placed in a health care setting, including community pharmacies, require a criminal record check, child abuse registry check and adult abuse registry check. As a result of the above requirements, and in keeping with the future requirements of the College of Pharmacists of Manitoba, all applicants offered a position in the College of Pharmacy are required to provide a self-declaration of a Criminal Record, Child Abuse Registry and Adult Abuse Registry listing following provisional admission, and subsequently provide a current, official Criminal Record Search, Child Abuse Registry Check and Adult Abuse Registry Check. All documents must be submitted to the College of Pharmacy Dean's Office by the first day of classes in September of the year they are admitted.

Any applicant's name appearing on the Adult or Child Abuse Registry will be denied admission. A criminal conviction will not necessarily result in denial of admission to the College of Pharmacy. Criminal offences will be reviewed by a sub-committee of the Pharmacy Admissions Committee for the implications of the conviction in view of the regulatory professional mandate to protect the public. Failure to disclose any adult criminal record or listing on the Child Abuse or Adult Abuse Registry will invalidate an application and shall result in the applicant being denied admission, or automatic expulsion from the College of Pharmacy if the applicant has been admitted.

In addition, all undergraduate professional students of the University of Manitoba, College of Pharmacy must be registered with the College of Pharmacists of Manitoba (CPHM). CPHM requires that all graduates of the College of Pharmacy who wish to obtain a license to practice pharmacy in this province, must disclose information about any conviction for an offence under the Criminal Code (Canada), the Controlled Drugs and Substances Act (Canada), or the Food and Drugs Act (Canada) in order to be considered for eligibility for registration with the College of Pharmacists of Manitoba.

The review process conducted by the College of Pharmacy is independent of the review process conducted by the College of Pharmacists of Manitoba.

4.3 Immunization

Maintaining an up-to-date health record is an important responsibility of being a student, and serves to protect the health of vulnerable patients with whom students will be involved, as well as the health of students and their families. In general, immunizations and health screening tests are voluntary procedures; however, required immunizations and testing are also a condition of enrolment within The College of Pharmacy. All students enrolled in the College of Pharmacy must be immunized against the following diseases: diphtheria/tetanus/pertussis, polio, rubella, measles, mumps, chickenpox, Tuberculosis, hepatitis A and B and influenza. Students admitted to first year Pharmacy will be provided with an Immunization package at the time of acceptance into the program. Students have the option to provide their immune status and complete their immunizations with their own healthcare provider or participate in the Faculty of Health Sciences Immunization Program on campus. Students will be required to complete their required immunizations by the end of their first year.

Students will not be able to attend Introductory Pharmacy Practice Experiences or participate in any external outreach activities until all immunization requirements are up-to-date. Students are responsible for

updating their immunizations as needed. Completion of the immunization schedule is required for course progression in Pharmacy.

4.4 CPR/First Aid Requirements

All students in the Pharmacy program are required to have valid Standard First Aid and CPR - Health Care Provider training. The Standard First Aid course is valid for 3 years and the CPR (HCP) course is valid for one year. It is the academic and financial responsibility of the student to ensure that current certification in both CPR (HCP) and Standard First Aid is maintained throughout the program and a copy of the current certificate is submitted to the Dean's Office.

4.5 Mask Fit Testing

Introductory and Advanced Pharmacy Practice Experiences are subject to certain requirements intended to protect the health and well-being of learners, staff and patients. One such requirement is that learners provide documentation of current (i.e., within 2 years) N95 mask fit testing. Official proof of the mask-fit test must be submitted to the College of Pharmacy Dean's office by April 30th of the second year of the Pharmacy program.

Some learners may be unable to provide the Documentation due to religious reasons, as the N95 mask fit testing requires the absence of facial hair. In such situations, the College will work with the learner and the experiential site to accommodate the learner and make alternate arrangements that comply with human rights laws and policies, bona fide program requirements, and the health and safety requirements of the College and the experiential placement site.

The affected learner must advise the College and the experiential site of the need for alternate arrangements well in advance of the learner's experiential rotation. If adequate notice is not provided, the learner may be reassigned to an area of perceived lower risk (recognizing that zero risk of exposure in the area of reassignment cannot be guaranteed).

In the unlikely event of an outbreak of some infectious entity that requires use of N95 masks more broadly in a facility (such as a viral outbreak or epidemic), learners without the appropriate N95 mask fit (or accepted alternate arrangements) will not be allowed on site. In such a case, the requirements for fulfillment of the experiential program will be reviewed as required and may include delayed completion of the experiential rotation, or change in location.

4.6 Introductory/Advanced Pharmacy Practice Experiences (IPPE/APPE)

Approved Introductory / Advanced Pharmacy Practice Experiences are limited and the University cannot guarantee that it will be able to find sufficient suitable placement sites in convenient locations for all students, in a timely manner. Students are expected to participate in rural practice experiences. Students are responsible for all costs associated with Pharmacy Practice Experiences, including travel and living expenses where placements are outside Winnipeg.

Under The Workers Compensation Act (Manitoba), students of the University of Manitoba who are engaged in a field practicum as a required part of their program are generally covered for injuries sustained in the course of and arising out of the practice experience. However, where the practicum takes place outside of Manitoba, and the student is not a Manitoba resident, workers compensation coverage may not be extended, based on the provisions of The Workers Compensation Act. However, other insurance coverage may be available to registered students. Students are encouraged to contact the Coordinator of the Pharmacy Practice

Experience Program at the earliest opportunity to determine if any such alternative arrangements are possible.

4.7 Transfer of Credit Earned Elsewhere

The College of Pharmacy will transfer in external grades in a manner that is consistent with the University of Manitoba policy on the transference of external grades. The relevance of courses completed to the student's educational objective at the University of Manitoba and the quality of academic achievement as evidenced by the student's grades will be determining factors in assessing acceptability of credits earned elsewhere. No transfer of credit will be given for courses taken ten years or more prior to the application date. No transfer of credit will be permitted for courses where a "D" grade (or its percentage equivalent) has been awarded.

4.8 Scholastic Progress

The University of Manitoba Academic Calendar and Catalog applies to all students. In addition, the College of Pharmacy has regulations and requirements, published within the Academic Calendar in the College of Pharmacy section and yearly in the College of Pharmacy Student Handbook that apply specifically to its students.

For course progression in the College of Pharmacy students must achieve a minimum combined fall and winter term GPA of 2.00, and attain the minimum passing grade of "C" in each course, except where the course evaluation is in a "pass/fail" format, where "pass" is required, or as otherwise described in the course outline.

A student in Year 1-4 of the pharmacy program who records no more than one grade of "D" during the academic session, and who achieves a minimum combined fall and winter term GPA of 2.00, may at the discretion of the Dean of the College of Pharmacy be permitted to write a supplementary examination in that course.

Supplementary Exams will not be granted if a student records more than one grade of "D" during the academic session within any year or if a student records a grade of "F" during the academic session within any year. No more than two supplemental exams will be offered to any student throughout the Pharmacy program. Supplementary Exams are not available in most courses and are at the discretion of the Dean of the College of Pharmacy. Please refer to the current College of Pharmacy Student Handbook for specific details.

Application forms for supplementary examinations are available in the College of Pharmacy Dean's Office, and the examination is subject to a prescribed fee. Supplementary exams, if granted, will normally take place in mid-summer, following the academic session. Students may not be awarded a grade higher than "C" in a course for which a supplementary exam is written.

The grade achieved following supplementary examination will replace the grade originally recorded on the student's academic record.

A student who fails to achieve a passing grade of "C" in one course, following supplementary examination if that option is offered, and who achieves a minimum combined fall and winter term GPA of 2.00, will be considered to have failed that year, and will be required to repeat that course and may at the discretion of the Dean of the College of Pharmacy be required to repeat all, or a number of courses in the following academic year.

A student who fails to achieve a minimum passing grade of "C" in two courses, and whose combined fall and winter term GPA remains above 1.75,

will be considered to have failed that year, and will be required to repeat those courses and may at the discretion of the Dean of the College of Pharmacy be required to repeat all, or a number of courses in the following academic year.

The records of all students who fail a year, and the disposition of the cases, shall be reported to the Pharmacy College Council for information, but not for debate. Students who have cause to disagree with the disposition may file an appeal against the decision according to University of Manitoba Student policies and procedures.

A student who fails more than one year in the program, or who fails the same year twice, shall be required to withdraw from the Pharmacy program.

A student who fails to achieve a passing grade in more than two courses in the academic session, or whose combined fall and winter term GPA falls below 1.75, or who fails to achieve a passing grade in a repeated year, will be required to withdraw from the Pharmacy program.

4.9 Appeals Concerning Scholastic Progress

Should a student wish to appeal against any decision concerning scholastic progress, the following procedures should be followed:

Appeals of Term Work

Term Work refers to anything for which marks or grades are assigned and which have been returned or made available to students prior to the close of the last day of classes. This may include such things as tests, essays, class presentations, class participation, assignments, laboratory and other reports, preceptor evaluations and any other component of a final grade completed and evaluated during the term. Any student who is dissatisfied with a grade on term work has the right to appeal that grade. Students should recognize, however, that term work grade appeals are only upheld when there are good reasons to support the student's request for an elevated grade.

Reasons for submitting a Term Work Grade Appeal may include; miscalculation of marks, misgrading of a paper/exam, application of an evaluation or grading system which was not included in the course outline, and unfair or inequitable processes in determining the final grade.

Procedure:

- i. A student may formally appeal a grade received for term work provided that the matter has been discussed with the instructor in the first instance in an attempt to resolve the issue without the need for a formal appeal. If the grade discrepancy cannot be resolved, the student should make an appointment with the Associate Dean (Academic) who will provide information about the appeals procedure, academic regulations and related matters.
- ii. A formal appeal of the grade(s) for term work may be made on an "Application for Appealing a Grade Given for Term Work" form and is to be submitted to the Cashier's Office with the appropriate fee payment. The time limit for submission of this appeal is ten working days following communication of the grade to the student. Once paid, the form should be submitted to the academic unit offering the course. Subsequent processing of the appeal and communication of the disposition of the appeal is the responsibility of the Associate Dean (Academic) responsible for that academic unit. The result of the appeal will be forwarded in writing to the student and the instructor not later than fifteen working days after the formal appeal has been lodged.

iii. Normally the re-evaluation of a grade shall be undertaken by the instructor(s) responsible for the particular course (section) in consultation with at least one other instructor, in the same or related subject area.

iv. The fee charged for each term work grade appeal will be refunded for any grade which is changed (increased) as a result of the appeal.

v. Should a student not be satisfied with the decision, he/she may wish to seek advice from The Office of Student Advocacy, University of Manitoba.

Appeals of Course Final Grades

The appeal of a final grade should be discussed with the Associate Dean (Academic) of Pharmacy, who will supply information about the appeals procedure, academic regulations and related matters.

Students who still wish to proceed with an appeal should consult the office of Student Advocacy for advice and assistance, and a letter of appeal must be sent to the Dean of the College of Pharmacy within 21 days of receiving notification of the decision. The letter should state the nature of the decision being appealed and the alternative that is being requested.

The Dean will respond in writing to notify the appellant of the date and time the student should attend a meeting of the College Appeals Committee.

The Appeals Committee will comprise: the Dean of the College of Pharmacy (or designate) as chair; one senior support staff member as secretary; three members of the full-time faculty; and a representative of the Pharmacy profession appointed by the College of Pharmacists of Manitoba. The senior support staff member is a non-voting member. The Chair shall only vote in the event of a tie.

Appellants have the right to attend the hearing of their appeal and may have a representative to assist them at the appeal hearing. This representative may be the Student Advocate or a fellow student or other full-time member of the university community not receiving payment for appearing or working for Legal Aid. In addition, if the student wishes, one member of his or her immediate family, and also if desired a lawyer, may be present, but as observers who do not participate and have no speaking privileges. The decision of the Appeals Committee will be conveyed to the student as soon as possible after the hearing.

If the appellant is still dissatisfied they may wish to discuss the issue further with the office of Student Advocacy. Student appellants should not expect a favorable decision when their appeal is based on grounds related to external factors such as employment, sports, or hobbies, etc.

4.11 Voluntary Withdrawals

Any student seeking to withdraw from a portion of, or all of their courses must provide written notification to the Dean's Office outlining the reasons for this request. Re-entry to the College of Pharmacy by students who voluntarily withdraw, will be dependent on the availability of space and external rotation facilities. Any student who has voluntarily withdrawn from a portion of, or all of their courses in Pharmacy on more than one occasion will not be permitted re-entry into the program. Withdrawals for medical or compassionate reasons will not contribute toward this maximum. Students who, for medical reasons, withdraw from the program may not re-register until they have established, through proper medical consultation and documentation, their fitness to resume studies.

Reinstatement following a voluntary withdrawal will be subject to current and satisfactory:

1. Criminal Records, Child Abuse Registry and Adult Abuse Registry Search results;
2. College of Pharmacists (CPhM) Registration;
3. Immunization, Standard First Aid and CPR (HCP) certification;
4. Reinstatement may also be subject to the student signing an undertaking to either or both of the College of Pharmacy and CPhM of certain terms and conditions.

4.12 Deferred Final Examinations

Students may request a deferred final examination from the Dean of the College of Pharmacy for reasons of illness or other disability, for bereavement or for compassionate reasons. The request should typically be communicated before the final exam is written, but must normally be filed within forty-eight (48) hours of the scheduled date of the missed examination or, in a case where more than one examination was missed, within forty-eight (48) hours of the scheduled date of the last examination missed. The application must be accompanied by a medical certificate or other appropriate documentation certifying the reason for the deferral, the inability of the student to write the examination at the regular scheduled time and, where possible, indicating the period of incapacity. Based on the evidence provided, the Dean shall decide whether the application is approved. Students who, for medical reasons receive deferred examination privileges for all final examinations may not reregister until they have established, through proper medical consultation, their fitness to resume studies.

Students may also request a deferred examination(s) on the grounds that they are unable to write said examination(s) due to:

- (a) participation in an inter-university, provincial, inter-provincial, national or international scholastic or athletic event; or
- (b) religious observance.

Students requesting a deferred examination due to a known situation as listed above must file an application normally twenty (20) working days prior to the day of the scheduled examination.

Any student requesting deferred examination(s) will be required to sign an undertaking that the student has not discussed, reviewed, had access to, or otherwise become aware of the contents of the deferred examination except as expressly authorized by the instructor or professor for the course in which the deferred examination is being undertaken.

4.13 Incomplete Courses

A student who is unable to complete the term work prescribed in a course may apply to the course instructor 5 working days prior to the end of lectures for consideration of a grade classification of 'incomplete', and a time extension to complete the work. Should an 'incomplete' be granted the student will still be required to write the final examination if one is scheduled for the course. Taking into account the results of the final examination, the value of the term work completed, and the extent of the incomplete term work, the course instructor shall calculate the temporary grade using a zero value for incomplete work. Incomplete final grades are entered with the grade code and the letter 'I'. In addition to the grade, the recommendation for an 'incomplete' should indicate the reason(s) for consideration being given, a description of the outstanding work to be completed, and the date by which the work must be submitted. If a final grade is not reported by the extension deadline, the letter "I" will be dropped, and the grade will remain as awarded. The student's opportunity to improve the grade will have lapsed, unless where specific circumstances warrant, the Associate Dean (Academic) extends the date by which an incomplete must be cleared.

4.14 Leave of Absence

Any student seeking a leave of absence must submit a written request to The Dean of The College of Pharmacy normally by June 1st. The request for the leave of absence must clearly outline the reasons for the request and the Dean may require further supporting documentation to support the request. The duration of a leave of absence is typically one year and will count towards the maximum number of years to complete the pharmacy program. Students who wish to be reinstated after the leave must contact the Dean's office by May 1st for the upcoming academic year and request reinstatement. At the point of reinstatement for students on leave for an academic year, students must provide a current, official Criminal Record Search, Child Abuse Registry Check and Adult Abuse Registry Check.

Reinstatement following a leave of absence will be subject to current and satisfactory:

1. Criminal Records, Child Abuse Registry and Adult Abuse Registry Search results;
2. CPhM Registration;
3. Immunization, Standard First Aid and CPR (HCP) certification;
4. Reinstatement may also be subject to the student signing an undertaking to either or both of the College of Pharmacy and CPhM of certain terms and conditions.

4.15 Dean's Honour List

Eligible students who achieve a combined fall and winter sessional GPA of 4.00 or higher will be placed on the Dean's Honour List. Eligible students must have completed a minimum of 13 credit hours in each of the fall and winter terms in years 1-3 of the program. Fourth year students' eligibility for the Dean's Honour List will be based on graded courses (i.e. vs pass / fail grading during Advanced Pharmacy Practice Experiences or the Electives program). The Dean's Honour List designation is not applied until the end of the winter term.

4.16 Academic Honesty

Many courses in the College of Pharmacy require group projects and students should be aware that these are subject to the same rules regarding academic honesty as individual projects. Due to the unique nature of group work, all members of the group should exercise special care to insure that work completed does not violate academic integrity. Should a violation occur, group members will be held jointly accountable unless the violation can be attributed to a specified individual, or group of individuals. In the College of Pharmacy, all suspected cases of academic dishonesty will be passed to the Dean's Office for evaluation.

4.17 Liability

The University's insurer, The Canadian Universities Reciprocal Insurance Exchange (CURIE), includes malpractice coverage for pharmacy students, in respect of activities related to their Pharmacy studies, whether conducted on or off campus. The limiting factor is that the students must be doing the activity in furtherance of their education or training while a registered student of the University of Manitoba.

4.18 Professional Unsuitability By-Law

The Senate has approved a by-law granting authority to the College of Pharmacy to require a student to withdraw for reasons of professional unsuitability.

4.19 Residence Requirements

Students are required to complete all years of the Pharm.D. degree program with the College of Pharmacy, Faculty of Health Sciences, University of Manitoba. Under exceptional circumstances, residence requirements may be altered with permission from the Dean of Pharmacy.

4.20 Completion of the PharmD Program

The maximum time allowable for completion of the Entry to Practice PharmD degree is seven years after admission into the College of Pharmacy. Students must successfully complete all of the course work associated with a year in the program prior to being allowed to register for courses in the next year. In exceptional cases, the Dean of the College of Pharmacy may grant exceptions to this requirement.

SECTION 5: Program and Graduation Requirements

5.1 Student Responsibility

Students are advised to carefully review the College of Pharmacy chapter of the *Undergraduate Calendar* to ensure compliance with degree program requirements.

It is the student's responsibility to know all relevant regulations, policies and practices.

Final completion of degree requirements is the responsibility of the student.

The University of Manitoba Registration System is not a degree audit system and the onus is on students to make sure they are selecting courses appropriate to their academic program.

5.2 Registration Assistance

If you have questions or problems with your registration you can contact the Aurora Student Help Line at (204) 474-9420, or call the College of Pharmacy Dean's Office at (204) 474-9306.

5.3 Course Information by Year: Bachelor of Science in Pharmacy

Year 3

| Course Number | Course Name | Credit Hours |
|---------------|-------------------------------------|--------------|
| PHARM 3110 | Pharmacy Skills Lab 3 (PSL-3) | 3 |
| PHRM 3230 | Principles of Professional Practice | 2 |
| PHRM 3310 | Clinical Pharmacy 2 | 10 |
| PHRM 3320 | Pharmaceutical Analysis Lab | 3 |
| PHRM 3430 | Natural Products | 3 |

| | | |
|---------------------------|-------------------------------------|-----------|
| PHRM 3550 | Clinical Pharmacokinetics | 3 |
| PHRM 3520 | Principles of Scientific Literature | 4 |
| PHRM 3640 | Principles of Biotechnology | 3 |
| PHRM 3700 | Structured Experiential Program 3 | 4 |
| Total Credit Hours | | 35 |

Year 4

Please refer to the [Academic Schedule](#) for all important dates (start and end dates for terms, [exams](#), electives and and SPEP blocks)

| Course Number | Course Name | Credit Hours |
|---------------------------|-----------------------------------|--------------|
| PHRM 4230 | Pharmacy Practice Management | 4 |
| PHRM 4310 | Clinical Pharmacy 3 | 4 |
| PHRM 4450 | Toxicology | 3 |
| PHRM 4470 | Current Topics | 3 |
| PHRM 4700 | Structured Experiential Program 4 | 10 |
| PHRM 4800 | Electives Program | 10 |
| Total Credit Hours | | 34 |

Total Program Credit Hours is 136.

Note: Students may not obtain any grade lower than a "C" in all required courses.

5.4 Course Information by Year: Doctor of Pharmacy (PharmD)

Year 1 (Transition year)

Please register at your initial access time.

Please refer to the [Academic Schedule](#) for all important dates (start and end dates for terms, [exams](#), and SPEP blocks).

IPE events will be held on the afternoons of Friday, September 20th, 2019 and Friday, January 17th, 2020.

| Course Number | Course Name | Credit Hours |
|--|--------------|--------------|
| PHAC 2100 | Pharmacology | 6 |
| STAT 1000 | Statistics 1 | 3 |
| Humanities/ Social Sciences Electives | | 6 |

| | | |
|---------------------------|---------------------------------------|-----------|
| PHMD 1000 | Introduction to Professional Practice | 1 |
| PHMD 1002 | Applied Pharmacy Practice Lab 1 | 4 |
| PHMD 1004 | Intro to Pharmacotherapy Literature | 1 |
| PHMD 1006 | Pharmacy Informatics | 1 |
| PHMD 1008 | Medicinal Chemistry | 4 |
| PHMD 1014 | Clinical Therapeutics 1 | 3 |
| PHMD 1016 | Pharmaceutics | 3 |
| PHMD 1040 | Service Learning / IPE 1 | 1 |
| Total Credit Hours | | 33 |

SECTION 6: Course Descriptions

PHMD 1000 Introduction to Professional Practice **Cr. Hrs. 1**

This course provides an introduction to various aspects of professional practice with a focus on patient care and safety. The course will include discussion and activities that incorporate cultural diversity, determinants of health, health literacy and Indigenous health. Registration is normally restricted to students in Year 1 of the program. Students will be graded on a pass/fail basis.

PHMD 1002 Applied Pharmacy Practice Lab 1 **Cr. Hrs. 1**

(Lab required) This course is an introduction to community pharmacy practice with a focus on communication skills that are patient centered. The course provides opportunities to apply knowledge when completing patient assessments that will ensure positive patient outcomes. The process of prescription filling includes ensuring the legal requirements are met, minimizing errors, calculations and adverse drug reactions. Students will be introduced to drug information resources, adherence aids and physical assessment. May not be held with PHRM 1110 or the former PHRM 1100. Registration is normally restricted to students in Year 1 of the program.

PHMD 1004 Introduction to Pharmacotherapy Literature **Cr. Hrs. 1**

An introduction to the concepts of evidence-based medicine and applied medical/biostatistics in the evaluation of relevant pharmacotherapy literature. Registration is normally restricted to students in Year 1 of the program.

PHMD 1006 Pharmacy Informatics **Cr. Hrs. 1**

This course will introduce students to the use of information and communication technologies for delivering patient care and fostering collaboration between healthcare providers. Students will also be introduced to the professional, ethical, and legal implications of using such technologies for communicating health information. Registration is normally restricted to students in Year 1 of the program.

PHMD 1008 Medicinal Chemistry **Cr. Hrs. 4**

This course explores the physicochemical aspects of drug structure in absorption, distribution, metabolism, and excretion and the interaction between drugs and their receptors as they relate to the biochemical, pharmacological, and therapeutic actions of medicinal compounds. Students will learn the fundamental relationships between the structures of drugs and the resulting activity. May not be held with PHRM 2222 or the former PHRM 2220 or PHRM 3220. Registration is normally restricted to students in Year 1 of the program. Prerequisite: CHEM 2370 or MBIO 2370.

PHMD 1010 Applied Pathophysiology Cr. Hrs. 4

A comprehensive foundation of the underlying patho-physiological mechanisms associated with various types of human disease. Course content will serve as an essential requirement to prepare students for subsequent advanced clinical courses related to diagnosis and medical management (pharmacological and non-pharmacological approaches) of the disease(s). May not be held with PHRM 1430. Registration is normally restricted to students in Year 1 of the program. Prerequisite: BIOL 2420 (ZOOL 2540).

PHMD 1012 Extemporaneous Pharmaceutical Compounding Cr. Hrs. 3

(Lab required) In a classroom and laboratory setting, this course provides an introduction to the compounding of pharmaceutical products and the physicochemical basis of product formulation. Practical aspects of formulation and patient counselling regarding the products is also explored. May not be held with PHRM 1300. Registration is normally restricted to students in Year 1 of the program.

PHMD 1014 Clinical Therapeutics 1 Cr. Hrs. 3

This course introduces principles of drug therapy for the management of both self-care conditions and ambulatory ailments, with an additional focus on health promotion. Within the conditions covered, identifying signs and symptoms to complete a differential diagnosis, development of treatment plans and follow-up monitoring will be emphasized. Treatment approaches discussed will include non-pharmacological options, non-prescription options and some prescription treatments. May not be held with PHRM 2320 or the former PHRM 2310. Registration is normally restricted to students in Year 1 of the program.

PHMD 1016 Pharmaceutics Cr. Hrs. 3

(Lab required) This course introduces principles of formulation and good pharmaceutical manufacturing practice, including aspects of product development and assessment, stability testing, and quality control. It also explores the application of dosage forms to clinical situations. May not be held with PHRM 2270. Registration is normally restricted to students in Year 1 of the program. Prerequisite: PHMD 1012.

PHMD 1040 Service Learning / IPE 1 Cr. Hrs. 1

The course is a service-learning experience that provides students an opportunity to work in community-based patient or client centered settings. The course will focus on developing communication skills, interprofessional collaboration with other healthcare students and patient advocacy while working with patients or clients from diverse backgrounds. The course also includes an opportunity for students to experience various pharmacy practice environments through a job shadowing experience under the supervision of practicing pharmacists and senior pharmacy students. Registration is normally restricted to students in Year 1 of the program. Students will be graded on a pass/fail basis.

PHRM 1000 Introduction to Pharmacy Cr. Hrs. 1

This course provides an orientation to Pharmacy and to the application of medicines within the context of today's dynamic medical care system. It has been designed to highlight professionalism early in the Pharmacy curriculum and will provide the opportunity for students to interact with Pharmacy professionals "at the cutting edge" of pharmacy practice.

PHRM 1110 Pharmacy Skills Laboratory Cr. Hrs. 3

This is a multifaceted course using an integrated skills laboratory format to develop essential skills that students require for pharmacy practice. These skills primarily involve communication, problem solving and critical thinking that form the foundation for life-long learning. Exploring ethical principles and professionalism are also essential components of this course.

PHRM 1300 Fundamentals of Pharmaceutics Cr. Hrs. 2

In a classroom and laboratory setting, this course provides an introduction to the compounding of pharmaceutical products and the physicochemical basis of product formulation. Practical aspects of formulation and an introduction to the dispensing function are also explored.

PHRM 1310 Fundamentals of Pharmaceutics Cr. Hrs. 3

(Lab required) In a classroom and laboratory setting, this course provides an introduction to the compounding of pharmaceutical products and the physicochemical basis of product formulation. Practical aspects of formulation and patient counselling regarding the products is also explored. May not be held with PHRM 1300. Registration is normally restricted to students in Year 1 of the program.

PHRM 1430 Applied Pathophysiology for Pharmacy Students Cr. Hrs. 3

A comprehensive theoretical foundation of the phenomena that produce alterations in human physiology function across the lifespan. Course content will prepare the student for subsequent courses related to diagnosis and management of disease processes associated with pathophysiological dysfunction/alterations.

PHRM 1440 Applied Pathophysiology Cr. Hrs. 4

A comprehensive foundation of the underlying patho-physiological mechanisms associated with various types of human disease. Course content will serve as an essential pre-requisite required to prepare students for subsequent advanced clinical courses related to diagnosis and medical management (pharmacological and non-pharmacological approaches) of the disease(s). May not be held with PHRM 1430. Registration is normally restricted to students in Year 1 of the program.

PHRM 1700 Structured Practical Experiential Program 1 Cr. Hrs. 1

This course is a service-learning experience, providing students the opportunity to work in community-based patient/client-centred settings. This course also includes two half day job shadowing experiential rotations in a variety of pharmacy practice settings (eg. community pharmacy practice, institutional pharmacy practice) under the supervision of pharmacist preceptors consistent with the Manitoba Pharmacy Act. It serves to familiarize students with the health care setting and the pharmacist's role. Students will be graded on a pass/fail basis.

PHRM 2100 Pharmacy Skills Lab 2 Cr. Hrs. 3

This course develops essential skills required for pharmacy practice. Focus is on drug distribution, pharmacy law, communication with "standardized patients" and drug information.

PHRM 2222 Medicinal Chemistry Cr. Hrs. 6

This course explores the physicochemical aspects of drug structure in absorption, distribution, metabolism, and excretion and the interaction between drugs and their receptors as they relate to the biochemical, pharmacological, and therapeutic actions of medicinal compounds. Not to be held with the former PHRM 220 or PHRM 3220. Prerequisites: CHEM 2210, CHEM 2360, CHEM 2370.

PHRM 2270 Pharmaceutics/Biopharmaceutics Cr. Hrs. 6

This course introduces principles of formulation and good pharmaceutical manufacturing practice, including aspects of product development and assessment, stability testing, and quality control. It also explores the application of dosage forms to clinical situations.

PHRM 2280 Pharmacokinetics Cr. Hrs. 3

This course introduces principles of pharmacokinetics to predict how drugs will be absorbed, distributed, metabolized and excreted from the body. Practical application of concepts and calculations will be emphasized.

PHRM 2320 Clinical Pharmacy 1 Cr. Hrs. 5

This course introduces principles of drug therapy to manage self-care conditions and ambulatory ailments. There is also a component of health promotion with a focus on clinically relevant nutrition topics for pharmacists. Non-prescription and prescription treatment approaches will be covered within the course. May not be held with the former PHRM 2310.

PHRM 2700 Structured Practical Experiential Program 2 Cr. Hrs. 2

This course offers experiential learning in a variety of pharmacy practice settings (eg. community pharmacy practice, institutional pharmacy practice) It consists of 2 one week rotations at the end of the second year of the program. This course builds on skills learned in SPEP 1 and focuses on the practice of drug preparation and distribution, non-prescription medication counseling, and jurisprudent under the supervision of pharmacist preceptors consistent with the Manitoba Pharmacy Act. Students will be graded on a pass/fail basis.

PHRM 3110 Pharmacy Skills Laboratory III Cr. Hrs. 3

This course develops essential skills required for pharmacy practice. The focus is on interaction with patients and other health care professionals and the application of essential knowledge, skills and values required for the provision of pharmaceutical care. May not be held with PHRM 3100.

PHRM 3230 Principles of Professional Practice Cr. Hrs. 2

This course offers the opportunity to explore professionalism, ethics and socio-economic aspects of the health care system. May not be held with PHRM 3210.

PHRM 3310 Clinical Pharmacy 2 Cr. Hrs. 10

This course builds on principles of drug therapy introduced in Clinical Pharmacy 1. Aspects of providing direct patient care are emphasized to identify, solve and prevent actual or potential drug-related problems. The course also expands knowledge of "Over the Counter (OTC)" medications as therapeutic alternatives and introduces home diagnostic testing

PHRM 3320 Pharmaceutical Analysis Lab Cr. Hrs. 3

This course offers the opportunity to prepare pharmaceutical dosage forms and perform analytical testing on the products. Qualitative and quantitative instrumental assay techniques are introduced.

PHRM 3430 Natural Products Cr. Hrs. 3

Medicinal products of natural origin; introduction to systems of complementary medicine. Therapeutic aspects and products are emphasized

PHRM 3520 Principles of Scientific Literature Evaluation Cr. Hrs. 4

Primary literature is critically analyzed. Discussion of how study results impact on treatment strategies are emphasized. May not be held with PHRM 3510.

PHRM 3550 Clinical Pharmacokinetics Cr. Hrs. 3

This course explores the practical application of pharmacokinetic concepts, calculations, and patient factors which effect pharmacokinetics in the clinical setting. Emphasis is on selected medications that require closer monitoring to ensure efficacy and patient safety. May not be held with PHRM 3500 or 046.350.

PHRM 3640 Principles of Biotechnology Cr. Hrs. 3

Introduction of biotechnology in pharmaceutical science and pharmacy. Students will be introduced to concepts from molecular biology, immunology, biotechnology and pharmacogenomics.

PHRM 3700 Structural Practical Experiential Program 3 Cr. Hs. 4

This course offers experiential learning in a variety of pharmacy practice settings (e.g. community pharmacy practice, institutional pharmacy practice) It consists of 2 two week rotations at the end of the third year of the program. This course builds on skills learned in SPEP 1 and SPEP 2 and focuses on the introduction of applying pharmaceutical care to patients under the supervision of pharmacist preceptors consistent with the Manitoba Pharmacy Act. Students will be graded on a pass/fail basis.

PHRM 4230 Pharmacy Practice Management Cr. Hrs. 4

An Introduction to administrative and behavioural sciences as they relate to planning, organization and operation of pharmacy practice and to the control of human and financial resources.

PHRM 4310 Clinical Pharmacy 3 Cr. Hrs. 4

A problem-based therapeutics course that builds on PHRM 3310. The emphasis is on the provision of pharmaceutical care to enhance students' ability to identify, resolve and prevent drug-related problems in given clinical scenarios.

PHRM 4450 Toxicology Cr. Hrs. 3

Toxicology of prescription and non-prescription medications and drugs of abuse. The emphasis is on the study of emergency treatments of the overdosed patient. Forensic aspects of common poisonings and drug overdoses are also discussed

PHRM 4470 Current Topics Cr. Hrs. 3

A discussion of topics of immediate interest to the profession. Subject to satisfactory completion of required projects and presentations. Attendance of 80% is mandatory. Students will be graded pass/fail.

PHRM 4700 Structural Practical Experiential Program 4 Cr. Hrs. 10

This course offers experiential learning in a variety of pharmacy practice settings (e.g. community pharmacy practice, institutional pharmacy practice) It consists of 2 six week rotations. This course builds on skills learned in SPEP 1, SPEP 2 and SPEP 3 and focuses on practicing advanced pharmaceutical care and further developing therapeutic and disease knowledge under the supervision of pharmacist preceptors consistent with the Manitoba Pharmacy Act. Students will be graded on a pass/fail basis.

PHRM 4800 PHARM ELECTIVES Cr. Hrs. 10

This program offers students the opportunity to explore areas in research and professional practice that are not part of the required undergraduate courses. Students have the option of applying to conduct projects at sites pre-approved by the College or to propose alternative avenues for self-directed learning. All project proposals need to obtain final approval from the College of Pharmacy which facilitates students' placement. Assessment will be based on written reports submitted by individual students to the College of Pharmacy. Students will be graded on a pass/fail basis.

College of Rehabilitation Sciences

Dean: Reg Urbanowski
 Head: Denise Mackey, Department of Respiratory Therapy
 Campus Address/General Office: R106-771 McDermot Ave., Bannatyne Campus
 Email Address: CORS.RTprogram@umanitoba.ca
 Telephone: (204) 789-3897
 Fax: (204) 789-3927
 Website: umanitoba.ca/rehabsciences/rt
 Academic Staff: Please refer to the College of Rehabilitation Sciences (CoRS) website at umanitoba.ca/rehabsciences/rt_staff.html

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SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | Years to Complete | Total Credit Hours |
|--|---|--------------------|
| Bachelor of Respiratory Therapy (B.R.T.) * | Regular Program: 4 years (University 1 plus 3 years) | 136 ** |
| | Degree Completion Program: 5 years | 30 |

* The B.R.T. replaces the former B.M.R. (R.T.).

**** For students admitted into the B.R.T. degree program in 2014 or later.**

The College of Rehabilitation Sciences also offers Master of Occupational Therapy and Master of Physical Therapy programs. Refer to the U of M Graduate Studies Calendar for further info on these programs.

1.2 Professional Designation

Bachelor of Respiratory Therapy (B.R.T.)

Respiratory Therapists are able to work throughout Canada after graduation from a Council on Accreditation in Respiratory Therapy accredited (CoARTE) educational program and successful completion of the credentialing examination produced by the Canadian Board for Respiratory Care (CBRC). Only the Canadian Society of Respiratory Therapists (CSRT) has the right to confer the title of Registered Respiratory Therapist (RRT) by virtue of a candidate's successful completion of the national certification examinations. The examination produced by the CBRC is recognized both nationally and internationally. In order to write the CBRC examination, applicants must have graduated from a respiratory therapy educational program in Canada, which has been accredited by CoARTE. Writing of the national exam is scheduled twice a year. The University respiratory therapy department provides a list of potential program graduates to the MARRT in order to verify eligibility to write the national certification exam. Further information regarding the national certification exam can be found at <https://www.csrt.com/rt-professional-practice/>

Students admitted into the program of studies in respiratory therapy should note carefully that while the University of Manitoba, College of Rehabilitation Sciences may admit students to its course of studies, the right to practice as a respiratory therapist is granted only through the appropriate authority of the province concerned, through a process of licensure. To be eligible for employment in Manitoba, graduates must register with the Manitoba Association of Registered Respiratory Therapists (MARRT). Regulations are similar in most other provinces in that the students must pass the CBRC examination and be registered with the regulatory body in that jurisdiction. Further information regarding registration in Manitoba can be found at <http://www.marrrt.org/index.jsp?p=membership>. Students are highly encouraged to become student members of both provincial and national professional associations.

The Respiratory Therapy program maintains accreditation through the Council on Accreditation of Respiratory Therapy Education (CoARTE). The University of Manitoba Respiratory Therapy program underwent a complete accreditation process in 2013 and was awarded "accreditation" status by CoARTE until 2019.

SECTION 2: Admission Requirements

Intro Rehabilitation Sciences

The following is a summary of the admission requirements for Respiratory Therapy. Equivalent academic courses completed at the University of Manitoba or recognized universities elsewhere will be considered. All admission requirements, as well as application deadline dates and forms, are included in applicant information packages that are available from the College of Rehabilitation Sciences website (http://umanitoba.ca/rehabsciences/rt/admissions_hub.html). Info can also be obtained from the [Admissions Office](#), Enrolment Services, 424 University Centre. This information is also posted on the university's website.

2.1 Course Requirements: Respiratory Therapy

Regular Program

BIOL 1020 and BIOL 1030, or BIOL 1000 and BIOL 1010

SOC 1200 Introduction to Sociology, or PSYC 1200 Introduction to Psychology

STAT 1000 Introductory Statistics

3 credit hour course to satisfy the written English requirement

6 credit hours of electives to total 24 credit hours in University 1

Other requirements: Respiratory Therapy

Minimum GPA required for consideration: 3.0. Minimum GPA required in core courses: 3.0.

Respiratory Therapy does not require specific high school courses. However, the following high school courses are required to register for the required courses:

Math 40S minimum 50% required (Pre-Calculus or Applied Math recommended)

If taking BIOL 1020, Biology 40S, and one of Chemistry 40S or Physics 40S minimum 50% required

Biology 40S, Chemistry 40S, English 40S, and Physics 30S and/or 40S recommended

Selection Criteria: 67% Grades and 33% Interview.

Degree Completion Program

In addition to the regular degree program in Respiratory Therapy, the College offers a degree completion program. Generally, individuals who have attained a diploma in respiratory therapy from an accredited program of studies in Canada, who are actively involved in the practice of the profession, and who demonstrate an interest in continuing their studies in this field, will be accepted. The degree completion program requires a minimum of 30 credit hours of study to be determined by the student in consultation with the department head and/or faculty advisor.

SECTION 3: College Academic Regulations

3.1 General

The provisions of the chapter, General Academic Regulations, and the chapter, University Policies, apply to all students. In addition, the College of Rehabilitation Sciences has regulations and requirements, published below, that apply specifically to its' students.

Policies with regard to admissions, selection, academic progression of the student, compulsory attendance, examination procedures, supplemental examination procedures, and withdrawal dates are in force and are on file in the general office of the College of Rehabilitation Sciences.

3.2 Health Requirements

Students in Respiratory Therapy are required to provide a health history and immunization record. A student will not be permitted to attend fieldwork/clinical placements until all health, immunization, CPR and mask fit requirements are current.

Immunizations

Standard Health Record Form Packages are sent to new students in Respiratory Therapy upon acceptance into the program. New students in Respiratory Therapy are required to return forms to their department by the dates published yearly in the Health Record Form Packages. Returning

students are required annually to review and update immunizations as necessary.

Cardiopulmonary Resuscitation Certification

All students (both new and returning) in the Department of Respiratory Therapy are required to obtain Heart and Stroke Foundation of Canada certification in cardiopulmonary resuscitation annually. Certification must be at the Basic Life Support (BLS) for Healthcare Providers. Students in year 1 and 2 of the program will be required to provide proof of certification by the first day of class. Students in year 3 of the program will be required to provide proof of certification before the first day of their fieldwork placement. For students in all years of the program, proof of certification must not have an issue date prior to the last week in June of the current year. This will ensure that the certification remains current until the end of the clinical education period for each year in the program.

Mask Fit Certification

Clinical/fieldwork education sites require Respiratory Therapy students to maintain mask fit certification. Information on acquiring this certification is provided to new students with the Health Record Form Packages. All students are required to maintain mask fit certification throughout the program.

3.3 Dean's Honour List

Students carrying a full course load, with a sessional Grade Point Average of 3.7 or higher and have not done resit or supplemental exams, are placed on the Dean's Honour List.

3.4 Attendance

Regular attendance is expected of all students in all courses. Prior permission is required for any anticipated absences. Students absent from class due to illness may be required to present a certificate from a physician. Unexcused absence from an examination may result in a grade of zero for that examination. Make-up examinations may be allowed under special circumstances.

3.5 Criminal Record and Vulnerable Persons Check, Adult Abuse Registry Check and Child Abuse Registry Check

All respiratory therapy students are required to obtain a formal Criminal Record and Vulnerable Persons Check, an Adult Abuse Registry Check, and a formal Child Abuse Registry Check **by the first day of classes of each year of the program**. These records must have been issued within the ninety (90) days previous to that date to ensure that they remain current until the end of the clinical education period for each year of the program. These documents are required for participation in all clinical/fieldwork education activities.

SECTION 4: Program and Graduation Requirements

4.1 Academic Education

Respiratory Therapy

| Course No. | | Credit Hours |
|------------|---------------|--------------|
| First Year | | |
| ANAT 1030 | Human Anatomy | 3 |

| | | |
|---------------------------|--|-----------|
| RESP 1400 | Introduction to Professional Practice | 3 |
| RESP 1410 | Health Systems and Respiratory Care | 3 |
| RESP 1420 | Applied Physiology for Respiratory Therapy | 6 |
| RESP 1430 | Respiratory Therapeutics 1 | 6 |
| RESP 1440 | Pharmacology | 3 |
| RESP 1450 | Principles of Mechanical Ventilation | 6 |
| RESP 1460 | Basic Fieldwork 1 | 4 |
| Total credit hours | | 34 |
| Second Year | | |
| REHB 2450 | Research Methodology for Medical Rehabilitation | 3 |
| RESP 2200 | Primary Care in Respiratory Therapy | 3 |
| RESP 2210 | Pathophysiology | 6 |
| RESP 2220 | Physical Examination and Health Assessment | 3 |
| RESP 2230 | Respiratory Therapeutics 2 | 6 |
| RESP 2240 | Clinical Mechanical Ventilation | 3 |
| RESP 2250 | Ventilator Instrumentation | 3 |
| RESP 2260 | Cardiopulmonary Diagnostics | 3 |
| RESP 2380 | Basic Fieldwork 2 | 4 |
| RESP 2390 | Clinical Integration and Simulation | 6 |
| Total credit hours | | 40 |
| Third Year | | |
| RESP 3320 | Clinical Education in Pediatric Respiratory Care | 3 |
| RESP 3350 | Clinical Education in Pulmonary Diagnostics | 3 |
| RESP 3360 | Clinical Education in Anesthesia | 3 |
| RESP 3370 | Clinical Education in Community Care | 4 |
| RESP 3410 | Clinical Education in Critical Care | 8 |
| RESP 3420 | Clinical Education in Neonatal Care | 5 |
| RESP 3430 | Clinical Education in General Therapeutics | 6 |
| RESP 3440 | Current Topics in Respiratory Therapy | 6 |
| Total credit hours | | 38 |

Students may not obtain any grade lower than "C" in all required courses.

4.2 Clinical/Fieldwork Education

Sixteen hundred (1,600) full-time hours of clinical/fieldwork experience are required. Three hundred and twenty (320) hours of clinical education time is organized into blocks that occur during years one and two of the B.R.T. program. The remaining 1,280 hours of clinical education is conducted throughout year three. All placements occur in Manitoba, with the majority of these occurring within greater Winnipeg.

SECTION 5: Course Descriptions-Medical Rehabilitation

REHB 2450 Research Methodology for Medical Rehabilitation

Cr. Hrs. 3

A theory and practical course designed to provide a basic understanding of research principles and their application in Medical Rehabilitation. 45 hours.

SECTION 5: Course Descriptions-Respiratory Therapy

RESP 1400 Introduction to Professional Practice

Cr. Hrs. 3

This course provides an introduction to the profession of Respiratory Therapy and the roles and responsibilities of a Respiratory Therapist as a member of the health care team. Emphasis is placed on professional conduct, communication and decision-making around issues affecting client-centered care. The course also introduces the safety aspects of delivering respiratory therapy according to the Canadian Standards Association, as well as workplace health and safety. This course is restricted to students in year one of the Bachelor Respiratory Therapy program.

RESP 1410 Health Systems and Respiratory Care

Cr. Hrs. 3

Building on RESP 1400, Introduction to Professional Practice, this course further explores the role of the Respiratory Therapist as a regulated health care professional in Canada and the function of regulatory and professional advocacy organizations. Students will learn concepts of patient safety and quality and how human, material, and financial resource management is accomplished in the Canadian health care system. Emphasis is placed on the integration of professional practice knowledge, skills and attitudes. This course is restricted to students in year one of the Bachelor of Respiratory Therapy program.

RESP 1420 Applied Physiology for Respiratory Therapy

Cr. Hrs. 6

The course is designed to provide students with a basic understanding of the function and regulation of the systems and major organs of the human body as they relate to clinical respiratory sciences. This course is restricted to students registered in year one of the Bachelor of Respiratory Therapy program.

RESP 1430 Respiratory Therapeutics 1

Cr. Hrs. 6

A lecture and laboratory course which introduces basic therapeutic concepts, technologies and techniques employed in respiratory therapy including medical gases, humidity and aerosol therapy, and bronchopulmonary hygiene. It introduces the principles of gas physics, and the physical and chemical properties of medical gases used in respiratory care. This course is restricted to students registered in year one of the Bachelor of Respiratory Therapy program.

RESP 1440 Pharmacology

Cr. Hrs. 3

This course will introduce the principles of pharmacology, those factors modifying drug effects, and individual pharmacologic agents including: ANS drugs, CNC drugs, cardiovascular medications, respiratory medications, antibiotics, and other drugs relevant to Respiratory Therapy. This course is restricted to students registered in year one of the Bachelor of Respiratory Therapy program.

RESP 1450 Principles of Mechanical Ventilation

Cr. Hrs. 6

The course will focus on the fundamental physical and physiologic principles involved with mechanical ventilation under normal and abnormal respiratory conditions. Various forms and application strategies of positive pressure ventilation will be introduced and explained as to their effects on the physiological systems. This course is restricted to students registered in year one of the Bachelor of Respiratory Therapy program.

RESP 1460 Basic Fieldwork 1

Cr. Hrs. 4

This course is comprised of 160 hours of clinical fieldwork experiences in respiratory therapy, provided under the supervision of registered respiratory therapists at one or more approved clinical sites. This course is restricted to students registered in year one of the Bachelor of Respiratory Therapy program.

RESP 2200 Primary Care in Respiratory Therapy Cr. Hrs. 3

This course provides an understanding of primary care in Respiratory Therapy practice as a method of supporting individuals and populations with respiratory disease. Students will learn the principles of health promotion and disease prevention, as well as chronic disease management and self-management strategies. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all of the required courses for year one of the program.

RESP 2210 Pathophysiology Cr. Hrs. 6

This course will introduce the pathogenesis of primary diseases of the cardio-respiratory, peripheral vascular, central and peripheral nervous systems. Specific disorders of the renal, metabolic, and immune systems, as well as infectious diseases with particular relevance to respiratory therapy will be introduced. The course will also introduce the differential diagnosis and current strategies employed in the management of these diseases. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2220 Physical Examination and Health Assessment Cr. Hrs. 3

This course focuses on the development of the patient/client history and physical examination skills essential to health assessment. Students will apply the findings of health assessments in the determination of differential diagnoses and in the development of respiratory care plans. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2230 Respiratory Therapeutics 2 Cr. Hrs. 6

This lecture and laboratory based course introduces advanced respiratory therapeutics including airway management, anaesthesia, invasive hemodynamic techniques, blood sample procurement and analysis, and others commonly employed in respiratory therapy. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2240 Clinical Mechanical Ventilation Cr. Hrs. 3

This course will discuss the initiation and management of all types of mechanical ventilation, both conventional and advanced, with intra and inter-facility patient transport. Interpretation of detailed pulmonary mechanics will be discussed to allow for assessment of ventilated patients. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2250 Ventilator Instrumentation Cr. Hrs. 3

This is a comprehensive course in the function, operation, and application of specified neonatal, pediatric and adult ventilators. Illustration of the necessary skills to setup, monitor and troubleshoot the ventilator will be examined in the classroom as well as in simulated patient case scenarios. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2260 Cardiopulmonary Diagnostics Cr. Hrs. 3

This course will introduce the principles of cardiac and pulmonary function diagnostics including: static and dynamic measures, determination of volumes and capacities, exercise physiology. Cardiopulmonary function changes relative to common diseases and abnormal physiologic states will be evaluated. This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all the required courses for year one of the program.

RESP 2380 Basic Fieldwork 2 Cr. Hrs. 4

Building on RESP 1460 (Basic Fieldwork1) and RESP 2390 (Clinical Integration and Simulation), this course is comprised of fieldwork experiences which provide the student the opportunity to apply the integrated concepts learned in the first two years of the Respiratory Therapy program in a clinical setting. This course will prepare students for advanced clinical education coursework. Prerequisites: RESP 1460, RESP 2390.

RESP 2390 Clinical Integration and Simulation Cr. Hrs. 6

This course provides the student an opportunity to integrate concepts learned in the first two years of the Respiratory Therapy program, and to learn life support protocols prior to participation in advanced clinical education coursework. The course will be delivered through a variety of formats including classroom, seminar, and clinical simulation. Prerequisite: This course is restricted to students registered in year two of the Bachelor of Respiratory Therapy program who have completed all required courses for year one of the program.

RESP 3320 Clinical Education in Pediatric Respiratory Care Cr. Hrs. 3

Three weeks of clinical experience in the Pediatric Intensive Care Unit at Children's Hospital. Shiftwork and extended shifts may be required. Course evaluated on a pass/fail basis. 144 hours.

RESP 3350 Clinical Education in Pulmonary Diagnostics Cr. Hrs. 3

Three weeks of clinical experience in the pulmonary diagnostic laboratory of an approved clinical site. Course evaluated on a pass/fail basis. 144 hours.

RESP 3360 Clinical Education in Anesthesia Cr. Hrs. 3

Three weeks of clinical experience designed to acquaint the student with actual clinical techniques and procedures used in the operating and recovery room. Course evaluated on a pass/fail basis. 144 hours.

RESP 3370 Clinical Education in Community Care Cr. Hrs. 4

Four weeks of clinical experience in community care settings including: pre-hospital care, health and wellness promotion, interfacility transport, chronic care, home care and community outreach. Course evaluated on a pass/fail basis. 180 hours.

RESP 3410 Clinical Education in Critical Care Cr. Hrs. 8

This course enables students to critically apply skills and concepts in the care of adult patients requiring critical respiratory care. The focus is on attainment of essential Respiratory Therapy competencies for practice. This course is evaluated on a pass/fail basis. This course is restricted to students registered in year three of the Bachelor of Respiratory Therapy program who have completed all the required courses for year two of the program. May not be held with the former RESP 3310.

RESP 3420 Clinical Education in Neonatal Care Cr. Hrs. 5

This course enables students to critically apply skills and concepts in the care of infants requiring critical respiratory care in the Labor & Delivery, and Neonatal units of the hospitals. The focus is on attainment of essential Respiratory Therapy competencies for practice. This course is evaluated on a pass/fail basis. This course is restricted to students registered in year three of the Bachelor of Respiratory Therapy program who have completed all

the required courses for year two of the program. May not hold with the former RESP 3330.

RESP 3430 Clinical Education in General Therapeutics **Cr. Hrs. 6**

This course enables students to critically apply skills and concepts in the care of adult patients requiring general respiratory care (non-critical care) in the hospital setting. The focus is on attainment of essential Respiratory Therapy competencies for practice. This course is evaluated on a pass/fail basis. This course is restricted to students registered in year three of the Bachelor of Respiratory Therapy program who have completed all the required courses for year two of the program. May not hold with the former RESP 3380.

RESP 3440 Current Topics in Respiratory Therapy **Cr. Hrs. 6**

Focuses on current issues in health and healthcare, in particular as they relate to respiratory therapy. Students complete a thorough review of the current evidence for practice and ongoing research relating to a topic of interest, and present their findings in a professional forum. This course is restricted to students registered in year three of the Bachelor of Respiratory Therapy program who have completed all the required courses for year two of the program. Not to be held with the former RESP 3300.

Bachelors of Health Sciences, Health Studies

Dean: Brian Postl

Program Director: Mark Nachtigal

Campus Address/General Office: 316/317 Human Ecology Bldg

Telephone: 204 474 8992/ 204 474 9759

Website: umanitoba.ca/faculties/health_sciences/IHP/index.html

Academic Staff: Please refer to our website at

http://umanitoba.ca/faculties/health_sciences/ihp/contact.html

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SECTION 5: Course Descriptions

SECTION 1: Degree Programs Offered

1.1 Programs

| Program/Degree | Years to Complete | Total Credit Hours |
|-----------------------------|-------------------|--------------------|
| Bachelor of Health Sciences | 4 | 120 |
| Bachelor Health Studies | 4 | 120 |

1.2 Available Minors, Options, and Concentrations

| Program | Minor Availability | Options | Concentrations |
|-----------------|----------------------------|------------------------------|--|
| Health Sciences | Yes: Health Sciences Minor | | Biomedical Sciences |
| Health Studies | Yes: Health Studies Minor | | 1. Health Policy, Planning and Evaluation 2. Health Promotion and Education 3. Family Health |
| | | Interfaculty Option in Aging | |

SECTION 2: Admission Requirements for the Interdisciplinary Health Program

Admission requirements are described on the Undergraduate Admissions website at <http://umanitoba.ca/student/admissions/application/index.html>

General Entrance Requirements to the Interdisciplinary Health Program

Program: A minimum adjusted grade point average (AGPA) of 2.0 in at least 24 credit hours of University 1, including 6 credit hours from Arts and 6 credit hours from Science to total 12 credit hours, plus 12-18 credit hours of other University 1 courses, for a total of 24-30 credit hours.

Other requirements for University study

High school prerequisites required for University level courses in certain programs: Mathematics 40S (pre-calculus or applied) and Chemistry 40S are required for the science requirements in the Interdisciplinary Health Program. Students planning to take BIOL 1020 for any program must have Biology 40S and any Grade 12 Mathematics course.

Minimum Adjusted GPA for consideration: 2.0.

For students wishing to choose the focused approach for entry to the Interdisciplinary Health Program, the course requirements for each of the programs or areas of concentration offered by the program are described in the Start Book at <http://umanitoba.ca/firstyear/>.

Direct Admission into the Health Sciences/Health Studies Degree Programs from High School

To be eligible for admission based on high school, students must have: General Requirements to the University of Manitoba, plus a minimum 85% average over the following, with no less than 60% in each course:

- English 40S
- Applied Mathematics 40S or Pre-Calculus Mathematics 40S
- Biology 40S, Chemistry 40S, Physics 40S or Computer Science 40S

SECTION 3: Academic Regulations

The provisions of the chapter, [General Academic Regulations and Requirements](#), and the chapter, [University Policies](#), apply to all students. In addition, the Interdisciplinary Health Program has regulations and requirements, published below, that apply specifically to its students.

3.1 Prerequisite, Corequisite, and Course Availability: Definitions

Prerequisite: If a course is prerequisite to a second course, the prerequisite must be met in order to continue in the second course. The department giving the second course may require a minimum grade of 'C' in the first course to register in the second course. Some inactive (legacy) courses may be used as prerequisites.

Corequisite: If a first course is a corequisite to a second course, the first course (unless previously completed) must be taken in the same term as the second course.

Course Availability: Not all courses listed in this Calendar are offered every year. Students are referred to the on-line calendar for courses offered in the year.

3.2 Scholastic Standards

Graduation and Grade Point Average

To graduate, a student must have passed 120 credit hours acceptable for credit in the current degree program and have obtained a minimum of 300 quality points. This is equivalent to a Degree Grade Point Average of 2.50. A pass indicates a grade of 'D' or better. A student's Degree Grade Point Average (DGPA) will be determined from the number of effective courses which apply at a particular stage. The effective courses consist of all courses passed, in addition to all failures which have not been cleared, or substituted for, in the student's record. A maximum of 150 credit hours (25 courses or the equivalent) may be attempted in order to obtain the 120 credit hours.

Assessment

The status of each student will be assessed in May of each year in which a student is registered. Assessments can include the following comments:

- Faculty minimum met (grade point average meets the standards listed below);
- Dean's Honour (see 3.9)
- Academic Warning
- Probationary status (see below)
- Suspension (see below)
- Suspension - all attempts used (see below)

Academic warning indicates a grade point average between the minimum required at the effective credit hours (year) and the DGPA requirement of 2.0.

There is a maximum of 30 credit hours of attempts allowed for each academic program; once those attempts are used (repeated courses, grades of F or D), it is impossible to graduate.

Probationary Standing

Students must achieve or exceed the following standards at the specified stages in their academic careers. Failure to obtain the standard results in probation. Once placed on probation, students who fail to meet the appropriate performance level at the next assessment following the next registration will be academically suspended. A student is not permitted to be on probation for two consecutive years.

| Assessment Standards | | |
|--|-------|------------------|
| Interdisciplinary Health Program: Health Sciences and Health Studies | | |
| 9 – 21 credit hours | < 2.0 | Academic Warning |
| 24 – 30 credit hours | 2.0 | |
| 33 – 60 credit hours | 2.2 | |
| 63 – 90 credit hours | 2.4 | |
| 93 – 117 credit hours | 2.5 | |
| 120+ credit hours | 2.5 | |

Suspension

Suspended students must remain out of the Degree Program for one academic year from the date of suspension and must apply for reinstatement at the Admissions Office no later than May 1.

Suspension (All Attempts Used)

Where it is mathematically impossible for a student to complete the degree by repeating failed courses, a suspended student, after remaining out of the program for one calendar year, may attempt reinstatement. By completing at least 12 credit hours in one term with a minimum 'D' grade in all courses and a term grade point average of at least 2.0, the student will be reinstated. The student will start the program afresh, with previous grades of 'C' or better applicable to the program.

3.3 Part-time Students

The maximum time allowed for completion of the degree is 10 years. After completion of 24 credit hours, part-time students will be evaluated each May and must conform to the minimum performance levels.

3.4 Repeating Courses

A student may repeat any course for the purpose of attaining a better grade. A course (or its equivalent) that is repeated in Fall 2016 or later will have the highest grade count. There are no supplemental examinations for students who have failed final or deferred examinations.

3.5 Challenge for Credit

A student wishing to challenge a course for credit should contact an Academic Advisor. Letter grades are granted upon completion of the course that is challenged for credit. An application is required.

3.6 Transfer of Credit

See the chapters on [Admissions and Academic Regulations and Requirements](#) at the beginning of this *Calendar*.

3.7 Appeals of Academic Regulations

The Committee on Student Standing considers petitions from students who request special consideration with respect to rules and regulations governing their programs of study and qualification for graduation.

3.8 Dean's Honour List

Eligible students who achieve a term Grade Point Average of 3.5 or higher in at least 12 credit hours per term will be included in the Deans Honour List.

3.9 Degree With Distinction

Students who graduate with a degree GPA of 3.75 and higher will receive a degree with distinction.

3.10 Work Permit for Study Purposes

International students who are registering for courses or programs that require work placement must obtain a valid **Work Permit**, in addition to maintaining a valid Study Permit. Work placement includes, but is not limited to, any **paid or unpaid** practicum, internships, work experience, field placement, and co-op programs that are a required component for the completion of their degree, diploma or certificate. Please contact your program advisor or the [International Centre for Students](#) for further information.

3.11 Release and Indemnification Forms

In elective courses, students may be required to sign a release form for off-campus activities.

3.12 Written English and Mathematics Requirements

The written English and Mathematics requirements are satisfied by required courses HNSC 2000 (former HMEC 2000) and STAT 1000 within the Interdisciplinary Health Program. HNSC 2000 will be available to students upon admission to the Interdisciplinary Health Program.

SECTION 4: Program and Graduation Requirements

Introduction

Students entering the Interdisciplinary Health Program will select one of the following two programs:

- Health Sciences
- Health Studies

In order to qualify for a degree, students must complete the 120 credit hours specified for the selected program. Elective choices provided in each program can permit students to transfer between them; however, this opportunity decreases as students progress. Students who transfer to another program must meet the full requirements of that program.

4.1 Advisement

The Interdisciplinary Health Program will provide entering students with orientation information and will refer a student to an academic advisor if the student requests. All returning students in the program must submit a program plan for the succeeding year before the start of registration.

4.2 Interdisciplinary Health Program

Program Director: Dr. Mark Nachtigal

This curriculum consists of two degree programs: the Bachelor of Health Sciences and the Bachelor of Health Studies. These degree programs offer new approaches to planning, administration and delivery of health services by fully integrating biological science and social science in understanding the health of people. Students will gain experience of dealing with health issues at the individual, community and population levels, as well as across the lifespan. The two degrees can serve as the foundation for careers in

biomedical sciences, health care teams and community health management. They offer a general course of study, not a professional status. Students can use both degree programs to build the knowledge and prerequisites for entry into professional programs in the health and social science fields.

4.2.1 Bachelor of Health Sciences Degree Program Chart Admission as of September 2018

The Bachelor of Health Sciences (B.H.Sc.) degree is a four year interdisciplinary program that incorporates science, humanities and social science to provide students with an integrative perspective on health. The BHSc provides students with an interdisciplinary background and skill set that will contribute to their preparation for a future in health-related careers. This interdisciplinary skill set is seen as advantageous for students applying for education in professional health programs and graduate studies.

The Bachelor of Health Sciences (B.H.Sc.) Degree consists of 120 credit hours. There is one concentration available as an option, the Biomedical Sciences concentration. A Concentration is 18 credit hours.

Students should consult the Academic Calendar to ensure that they have the appropriate pre- or co-requisites before they attempt to register in a course. A number of courses are cross-listed between departments/faculties. Students are strongly encouraged to seek the advice of the Academic Advisor in the Interdisciplinary Health Program in order to plan their programs.

| YEAR 1 ¹ | YEAR 2 ¹ | YEAR 3 ¹ | YEAR 4 ¹ |
|--|--|---|---|
| 120 Credit Hours | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| BIOL 1020 | ECON 1210 or ECON 1220 | FMLY 3750 | HEAL 4600 |
| BIOL 1030 | | FMLY 3780 or FMLY 3790 | HEAL 4620 |
| BIOL 1410 | GMGT 2070 or LEAD 2010 | | 15 credit hours of Program Electives ^{2,3} |
| BIOL 1412 | HEAL 2600 | HEAL 3000 (former HMEC 3000) | 9 credit hours of Free Electives |
| CHEM 1300 | HNSC 1210 | | |
| CHEM 1310 | HNSC 2000 (former HMEC 2000) or PSYC 2250 | HEAL 3600 | |
| PSYC 1200 | | 15 credit hours of Program Electives ^{2,3} | |
| STAT 1000 | | 3 credit hours of Free Electives | |
| 3 credit hours of Free Electives | NATV 1220 or NATV 1240 or NATV 3240 PHIL 2740 6 credit hours of Program Electives ^{2,3} 3 credit hours of Free Electives | | |

Notes:

¹Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Université de Saint-Boniface courses end in the number "1" (e.g. BIOL 1021).

² Of 36 credit hours of program electives, 21 must be science electives

³ Of the 36 credit hours of program electives, 24 must be at the 3000-4000 level.

Biomedical Sciences Concentration

Students registered in the Bachelor of Health Sciences can choose to complete a Biomedical Sciences concentration. This concentration offers courses related to the mechanisms of disease, giving students an opportunity to experience how diseases are researched through biomedical laboratory experience. This concentration will provide students not only with an interdisciplinary experience involving both the biological and social sciences, but with a new path to further studies in biomedical disciplines.

A written statement must be submitted to an IHP Academic Advisor declaring an interest in obtaining the concentration normally by May 15, following completion of HEAL 3610 (minimum grade of B). Students will be informed whether they have been accepted into the concentration normally by mid-June.

Normally, enrolment will be limited to the 24 eligible students who have achieved the highest degree GPAs after completion of HEAL 3610.

| Biomedical Sciences Concentration ^{1,2,3} | |
|---|------------------------|
| Year 3 | Year 4 |
| BIOL 2520 | HEAL 4630 ⁴ |
| CHEM 2360 | HEAL 4640 ⁴ |
| HEAL 3610 ⁵ | |

Notes:

¹ It is recommended that students accepted into the Biomedical Sciences concentration complete PHAC 4030 and PHAC 4040 as 6 credit hours of the Science electives.

² Only students registered in the B.H.Sc. degree program may complete a Biomedical Sciences concentration.

³ Courses required for the Biomedical Sciences concentration could count toward 18 of the 36 credit hours of approved elective course work to be completed in Years 3 and 4 of the B.H.Sc. degree.

⁴ Registration in HEAL 4630 and HEAL 4640 is restricted to students accepted into the Biomedical Sciences concentration and required permission of the Instructor. Registration must be confirmed by the IHP Academic Advisor.

⁵ HEAL 3610 is offered as an elective course for all students in the B.H.Sc. degree.

4.2.2 Bachelor of Health Sciences Program Electives List as of September 2018

Bachelor of Health Sciences Program Electives List

The following B.H.Sc. Electives List only applies to those students admitted to the B.H.Sc. degree program in the Fall of 2018 and later. The existing list of IHP electives should be followed by students admitted to the B.H.Sc. prior to the Fall of 2018. [See Section 4.2.10](#)

The science requirement may be met using any course offered by the Faculty of Science, or the Faculty of Agricultural and Food Sciences on the approved elective list (see below), in addition to the following courses:

Clayton H Riddell Faculty of Environment Earth and Resources

ENVR 1000 Environmental Science 1: Concepts
ENVR 3400 Introduction to Environment and Health
ENVR 4400 Advanced Issues in Environment and Health
Rady Faculty of Health Sciences
HEAL 3610 Mechanisms of Disease 1
Max Rady College of Medicine
BGEN 3022 Introduction to Human Genetics A

BGEN 3024 Introduction to Human Genetics B
 PHAC 4030 Drugs in Human Disease I
 PHAC 4040 Drugs in Human Disease II
 PHGY 1030 Fundamentals of Medical Physiology

Faculty of Agricultural and Food Sciences

FOOD 4150 Food Microbiology 1
 HNSC 1200 Food: Facts and Fallacies
 HNSC 2130 Nutrition through the Life Cycle
 HNSC 2140 Basic Principles of Human Nutrition
 HNSC 3300 Vitamins and Minerals in Human Health
 HNSC 3310 Macronutrients and Human Health
 HNSC 3320 Nutrition Education and Dietary Change
 HNSC 3342 Management for Food and Nutrition Professionals
 HNSC 3350 Culture and Food Patterns
 HNSC 3870 Food Geographies (cross-listed with GEOG 3870)
 HNSC 4290 Food, Nutrition and Health Policies
 HNSC 4300 Community Nutrition Intervention
 HNSC 4310 Nutrition and the Elderly
 HNSC 4340 Maternal and Child Nutrition
 HNSC 4350 Nutrition in Exercise and Sport
 HNSC 4540 Functional Foods and Nutraceuticals
 SOIL 3520 Pesticides: Environment, Economics and Ethics

Faculty of Arts

ECON 2310 Canadian Economic Problems
 ECON 2350 Community Economic Development
 ECON 2362 Economics of Gender
 ECON 2410 The Manitoba Economy
 ECON 3690 Economic Issues of Health Policy
 ECON 3692 Economic Determinants of Health
 ECON 4140 Evaluation of Economic Policy and Programs
 NATV 1220 Indigenous Peoples in Canada, Part 1
 NATV 1240 Indigenous Peoples in Canada, Part 2
 NATV 2020 The Métis in Canada
 NATV 2110 Introduction to Indigenous Community Development
 NATV 3100 Indigenous Healing Ways
 NATV 3240 Indigenous Medicine and Health
 NATV 3330 Indigenous People, Science and the Environment
 PHIL 1200 Introduction to Philosophy
 PHIL 2290 Ethics and Society
 PHIL 2750 Ethics and the Environment
 PSYC 2250 Introduction to Psychological Research
 PSYC 2260 Introduction to Research Methods in Psychology
 PSYC 2290 Child Development
 PSYC 2360 Brain and Behaviour
 PSYC 2440 Behaviour Modification Principles
 PSYC 2490 Abnormal Psychology
 PSYC 3070 Adult Development
 PSYC 3130 Introduction to Health Psychology
 PSYC 3150 Behavioural Modification Applications
 PSYC 3310 Adolescent Development
 SOC 1200 Introduction to Sociology
 SOC 2330 Social Psychology in Sociological Perspective
 SOC 2390 Social Organization
 SOC 2460 The Family
 SOC 2490 Sociology of Health and Illness
 SOC 2620 The Sociology of Aging
 SOC 3540 The Sociology of Health Care Systems
 SOC 3660 Sociology of Mental Disorder
 SOC 3770 Women, Health and Medicine

I H Asper School of Business

LEAD 2010 Learning to Lead
 MIS 2000 Information Systems for Management

Clayton H Riddell Faculty of Environment, Earth, and Resources

ENVR 1000 Environmental Science 1 - Concepts
 ENVR 3400 Introduction to Environment and Health
 ENVR 4400 Advanced Issues in Environment and Health

GEOG 1280 Introduction to Human Geography
 GEOG 2330 Place, Populations and Mobility: Geographic Perspectives (HS)
 GEOG 3640 Social Geography of the Environment (HS)
 GEOG 3870 Food Geographies (cross-listed with HNSC 3870)

Rady Faculty of Health Sciences

HMEC 4090 Practicum in Human Ecology
 HEAL 1600 Health and Health Professions
 HEAL 3610 Mechanisms of Disease 1
 HEAL 4500 Injury Prevention Across the Life Course
 HEAL 4650 Selected Topics in Interdisciplinary Health

Max Rady College of Medicine

BGEN 3022 Introduction to Human Genetics A
 BGEN 3024 Introduction to Human Genetics B

FMLY 1000 Families in Contemporary Canadian Society
 FMLY 1010 Human Development in the Family
 FMLY 1012 Introduction to Social Development
 FMLY 1420 Family Management Principles
 FMLY 2012 Development, Conflict and Displacement
 FMLY 2400 Family Financial Health
 FMLY 2500 Diversity and Families
 FMLY 2600 Foundations of Childhood Developmental Health
 FMLY 2650 The Social Aspects of Aging
 FMLY 2800 Family Violence
 FMLY 3012 Theories of Social Development
 FMLY 3220 Death and the Family
 FMLY 3240 Families in Later Years
 FMLY 3330 Parenting and Developmental Health
 FMLY 3400 Families as Consumers
 FMLY 3470 Selected Studies in the Family I
 FMLY 3600 Adolescents in Families and Society
 FMLY 3780 Introduction to the Development of Programs for Children and Families
 FMLY 3790 Introduction to the Evaluation of Programs for Children and Families
 FMLY 3800 Conflict Resolution in the Family
 FMLY 3802 Intimate Partner Violence
 FMLY 3806 Children, Violence and Rights
 FMLY 4012 Social Development Policies
 FMLY 4220 Aging and Risk in a Global Context
 FMLY 4300 Field Experience
 FMLY 4330 Management of Family Stress
 FMLY 4400 Family Economics: Poverty and Wealth
 FMLY 4470 Selected Studies in the Family II
 FMLY 4480 Work and Family Issues
 FMLY 4500 Senior Thesis
 FMLY 4602 Family Relationships, Health and Well-Being
 FMLY 4604 Children in Adversity
 FMLY 4606 A Social Justice Perspective on Indigenous Maternal and Child Health
 FMLY 4802 Family Violence Prevention
 PHAC 4030 Drugs in Human Disease I
 PHAC 4040 Drugs in Human Disease II

PHGY 1030 Fundamentals of Medical Physiology

College of Nursing

NURS 2610 Health and Physical Aspects of Aging
 NURS 3330 Women and Health
 NURS 3400 Men's Health: Concerns, Issues and Myths
 NURS 4520 Professional Foundations 5: Interprofessional and Collaborative Practice

Faculty of Kinesiology and Recreation Management

KIN 2610 Health and Physical Aspects of Aging
 KIN 3510 Physical Activity and Aging

KPER 1200 Physical Activity, Health and Wellness
 KPER 2700 Motor Control and Learning
 KPER 3470 Exercise Physiology: (Lab Required)
 REC 2650 The Social Aspects of Aging

Faculty of Science

BIOL 2300 Principles of Ecology
 BIOL 2410 Human Physiology 1
 BIOL 2420 Human Physiology 2
 BIOL 2500 Genetics 1
 BIOL 2520 Cell Biology
 BIOL 2380 Introductory Toxicology
 BIOL 3290 Medicinal and Hallucinogenic Plants
 BIOL 3542 Developmental Biology
 BIOL 3560 Comparative Animal Histology
 BIOL 3270 Introductory Parasitology
 BIOL 3470 Environmental Physiology of Animals 1
 BIOL 3500 Genetics 2
 BIOL 4542 Genes and Development
 BIOL 4544 Advanced Developmental and Cellular Biology
 CHEM 2210 Introductory Organic Chemistry 1: Structure and Function
 CHEM 2220 Introductory Organic Chemistry 2: Reactivity and Synthesis
 CHEM 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy
 CHEM 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways
 CHEM 2770 Elements of Biochemistry 1
 CHEM 2780 Elements of Biochemistry 2
 CHEM 3570 Biophysical Chemistry
 CHEM 4360 Signaling and Regulation of Gene Expression
 CHEM 4370 Glycobiology and Protein Activation
 CHEM 4620 Biochemistry of Nucleic Acids
 CHEM 4630 Biochemistry of Proteins
 CHEM 4670 Drug Design and Drug Discovery
 MATH 1230 Differential Calculus
 MATH 1500 Introduction to Calculus
 MBIO 1010 Microbiology I
 MBIO 1220 Essentials of Microbiology
 MBIO 1410 Introduction to Molecular Biology
 MBIO 2020 Microbiology II
 MBIO 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy
 MBIO 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways
 MBIO 2420 Introductory Virology
 MBIO 3000 Applied Biological Safety
 MBIO 3010 Mechanisms of Microbial Disease
 MBIO 3030 Microbiology III
 MBIO 3430 Molecular Evolution
 MBIO 3450 Regulation of Biochemical Processes
 MBIO 3460 Membrane and Cellular Biochemistry
 MBIO 3470 Microbial Systematics
 MBIO 4010 Immunology H
 MBIO 4020 Immunology
 MBIO 4410 Virology
 MBIO 4440 Systems Microbiology: from Genomes to Life
 MBIO 4480 Microbes in our Environment
 PHYS 1020 General Physics 1
 PHYS 1030 General Physics 2
 PHYS 1050 Physics 1: Mechanics
 PHYS 1070 Physics 2: Waves and Modern Physics
 PHYS 3220 Medical Physics and Physiological Measurement
 STAT 2000 Basic Statistical Analysis 2
 STAT 3000 Applied Linear Statistical Models
 STAT 3170 Statistical Quality Control
 STAT 3380 An Introduction to Nonparametric Statistics

Faculty of Social Work

SWRK 1310 Introduction to Social Welfare Policy Analysis
 SWRK 2650 The Social Aspects of Aging

4.2.3 Bachelor of Health Studies Program Admission as of September 2018

The Bachelor of Health Studies (B.H.St.) Degree now consists of 3 Concentrations from which students must declare at least one. A Concentration is 18 credit hours. Students must choose from one of the following 3 Concentrations:

1. Health Policy, Planning and Evaluation or
2. Health Promotion and Education or
3. Family Health

Students should consult the Academic Calendar to ensure that they have the appropriate pre- or co-requisites before they attempt to register in a course. A number of courses are cross-listed between departments/faculties. Students are strongly encouraged to seek the advice of Academic Advisor in the Interdisciplinary Health Program in order to plan their programs.

The new B.H.St. Electives List would apply only to those students admitted to the B.H.St. degree program in the Fall of 2018 and later. The new elective list can be found in [section 4.2.8](#). The existing list of IHP electives should be followed by students admitted to the B.H.St. prior to the Fall of 2018 and can be found in [section 4.2.10](#)

The **Health Policy, Planning, and Evaluation** concentration can provide foundational knowledge related to health policy development and related evaluation, as well as programming services. This concentration can be a potential route for those wishing to pursue related graduate studies in Community Health Sciences (although students in all three concentrations are eligible to pursue graduate studies), or for individuals seeking careers in areas such as Health Policy Analysis or Program Planning and Evaluation Coordinators.

The **Health Promotion and Education** concentration would be a route through which students wishing to pursue a career as a home economics teacher could obtain their 'teachable subjects' in family studies and nutrition. Students are advised that additional training will be required and that consultation with academic advisors in the Faculty of Education is recommended. Aside from home economics education, this concentration would lay the foundation for a future career options as Community Health Educators or Health-related Organization/Foundation Fundraising, or Health and Safety Coordinators or a Professional Home Economist (P.H.Ec.)

The **Family Health** concentration was created to ensure that those students interested in family social science would clearly see a place for themselves in the new academic structure. One of the features of the Family Health concentration will be the ability to take courses relevant to the existing Family Social Science options (Aging and Developmental Health; Child and Youth Developmental Health; Family Economic Health; Family Violence; Social Development) allowing the program to be flexible and meet individual student needs. This degree provides the educational background suitable for a future career as a Community Wellness Worker, Victim Services Worker, Youth Care Worker, Residential Care Manager.

4.2.4 Bachelor of Health Studies Program Chart Admission as of September 2018

| YEAR 1 ¹ | YEAR 2 ¹ | YEAR 3 ¹ | YEAR 4 ¹ |
|-------------------------|---------------------|---------------------|---------------------|
| 120 Credit Hours | | | |
| 30 credit hours | 30 credit hours | 30 credit hours | 30 credit hours |

| | | | |
|--|--|--|---|
| ANTH 1210 or ANTH 1220 | ECON 1210 or ECON 1220 | FMLY 3750 | HEAL 4600 |
| FMLY 1012 | GMGT 1010 or GMGT 2070 | FMLY 3780 | HEAL 4610 |
| PSYC 1200 | | FMLY 3790 | 6 credit hours of Concentration Electives |
| SOC 1200 | HEAL 2600 | HEAL 3000 (former HMEC 3000) | 12 credit hours of Program Electives ³ |
| STAT 1000 | HNSC 1210 | HEAL 3600 | 6 credit hours of Free Electives |
| 6 credit hours of Science Electives ² | HNSC 2000 (former HMEC 2000) or PSYC 2250 | PHIL 2740 | |
| 3 credit hours of Concentration Electives | NATV 1220 or NATV 1240 or NATV 3240 | SOC 2490 | |
| | 6 credit hours of Concentration Electives | 3 credit hours of Concentration Electives | |
| | 3 credit hours of Program Electives ³ | 6 credit hours of Program Electives ³ | |
| | 3 credit hours of Free Electives | | |

Notes:

¹Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified

courses identified in the degree program chart. Université de Saint-Boniface courses end in the number "1" (e.g. SOC 1201).

²See Bachelor of Health Studies electives list for courses that would meet the science requirement.

³Of the 21 credit hours of program electives, 9 must be at the 3000-4000 level.

4.2.5 Health Policy, Planning and Evaluation Concentration Electives List

| Course Subject | Course Title | Credit Hours |
|----------------|---|--------------|
| ABIZ 1010 | Economics of World Food Issues and Policies | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| ANTH 2560 | Anthropology of Illness | 3 |
| ECON 3690 | Economic Issues of Health Policy | 3 |
| ECON 3692 | Economic Determinants of Health | 3 |
| ENVR 3400 | Introduction to Environment and Health | 3 |
| ENVR 4400 | Advanced Issues in Environment and Health | 3 |

| | | |
|-----------|---|---|
| FMLY 4012 | Social Development Policies | 3 |
| GEOG 1280 | Introduction to Human Geography | 3 |
| GEOG 1700 | Social Justice in the 21st Century: Global Political Economy and Environmental Change | 3 |
| GEOG 2640 | Geography of Culture and Inequality | 3 |
| HNSC 1200 | Food Facts and Fallacies | 3 |
| HNSC 3350 | Cultural and Food Patterns | 3 |
| HNSC 3870 | Food Geographies | 3 |
| KIN 2610 | Health and Physical Aspects of Aging (also NURS 2610) | 3 |
| KPER 1200 | Physical Activity, Health, and Wellness | 3 |
| KPER 2200 | Planning Principles | 3 |
| LABR 1260 | Working for a Living | 3 |
| LABR 3060 | Workplace Health and Safety | 3 |
| LEAD 2010 | Learning to Lead | 3 |
| LEAD 3010 | Negotiation and Conflict Management | 3 |
| LEAD 4020 | Leadership, Power, and Politics in Organizations | 3 |
| NATV 2100 | Indigenous Spirituality | 3 |
| NATV 3100 | Indigenous Healing Ways | 3 |
| PSYC 2260 | Introduction to Research Methods in Psychology | 3 |
| PSYC 2540 | Social Psychology | 3 |
| PSYC 3130 | Introduction to Health Psychology | 3 |
| REC 3220 | Program Planning and Evaluation | 3 |
| SOC 2390 | Social Organization | 3 |
| SOC 2490 | Sociology of Health and Illness | 3 |
| SOC 2630 | Social Change | 3 |
| SOC 3540 | The Sociology of Health Care Systems | 3 |
| STAT 2000 | Basic Statistical Analysis 2 | 3 |

| | | |
|-----------|--|---|
| SWRK 1310 | Introduction to Social Welfare Policy Analysis | 3 |
| SWRK 2050 | Community and Organizational Theory | 3 |
| SWRK 2080 | Interpersonal Communication Skills | 3 |

4.2.6 Health Promotion and Education Concentration Electives List

| Course Subject | Course Title | Credit Hours |
|----------------|---|--------------|
| ANTH 2560 | Anthropology of Illness | 3 |
| EDUA 1560 | Adult learning and Development | 3 |
| EDUA 1570 | Foundations of Adult Education | 3 |
| EDUA 1580 | Program Planning in Adult Education | 3 |
| EDUA 1590 | Program Planning in Adult Education | 3 |
| ENVR 3400 | Introduction to Environment and Health | 3 |
| ENVR 4400 | Advanced Issues in Environment and Health | 3 |
| FMLY 1010 | Human Development in the Family | 3 |
| FMLY 1420 | Family Management Principles | 3 |
| FMLY 3012 | Theories of Social Development | 3 |
| FMLY 4012 | Social Development Policies | 3 |
| GEOG 1280 | Introduction to Human Geography | 3 |
| GEOG 1700 | Social Justice in the 21st Century: Global Political Economy and Environmental Change | 3 |
| GEOG 2640 | Geography of Culture and Inequality | 3 |
| HEAL 4500 | Injury Prevention Across the Life Course | 3 |
| FMLY 2650 | The Social Aspects of Aging | 3 |
| HNSC 1200 | Food Facts and Fallacies* | 3 |
| HNSC 2130 | Nutrition through the Life Cycle* | 3 |
| HNSC 2150 | Composition, Functional and Nutritional Properties of Food | 3 |

| | | |
|-----------|--|---|
| HNSC 2160 | Principles of Food Preparation and Preservation | 3 |
| HNSC 3260 | Food Quality Evaluation | 3 |
| HNSC 3350 | Culture and Food Patterns | 3 |
| HNSC 4270 | Sensory Evaluation of Food | 3 |
| HNSC 4290 | Food, Nutrition, and Health Policies | 3 |
| HNSC 4310 | Nutrition and the Elderly | 3 |
| KIN 2610 | Health and Physical Aspects of Aging (also NUR 2610) | 3 |
| KPER 1200 | Physical Activity, Health, and Wellness | 3 |
| LABR 1260 | Working for a Living | 3 |
| NATV 2100 | Indigenous Spirituality | 3 |
| NATV 3100 | Indigenous Healing Ways | 3 |
| PHIL 2150 | Mind and Body | 3 |
| PSYC 2260 | Introduction to Research Methods in Psychology | 3 |
| PSYC 2360 | Brain and Behaviour | 3 |
| PSYC 2440 | Behaviour Modification Principles | 3 |
| PSYC 2470 | Learning Foundations of Psychology | 3 |
| PSYC 2480 | Cognitive Processes | 3 |
| PSYC 3130 | Introduction to Health Psychology | 3 |
| RLGN 1430 | Food: Religious Concepts and Practices | 3 |
| SOC 2620 | The Sociology of Aging | 3 |
| SOC 2630 | Social Change | 3 |
| SOC 3540 | The Sociology of Health Care Systems | 3 |
| SOC 3730 | Society and Education | 3 |
| STAT 2000 | Basic Statistical Analysis 2* | 3 |
| SWRK 2050 | Community and Organizational Theory | 3 |
| SWRK 2080 | Interpersonal Communication Skills | 3 |

Note: *Students considering a career as a Home Economics teacher through the Faculty of Education after degree program should consult with

an academic advisor in the Faculty of Education. Some courses (marked with an asterisk) may be required for completion of higher level courses in the "teachable subject areas" in foods and nutrition and family social sciences and will require careful program planning.

4.2.7 Family Health Concentration Electives List

| Course Subject | Course Title | Credit Hours |
|----------------|---|--------------|
| FMLY 1000 | Families in Contemporary Canadian Society | 3 |
| FMLY 1010 | Human Development in the Family | 3 |
| FMLY 1420 | Family Management Principles | 3 |
| FMLY 2012 | Development, Conflict and Displacement | 3 |
| FMLY 2400 | Family Financial Health | 3 |
| FMLY 2500 | Diversity and Families | 3 |
| FMLY 2600 | Foundations of Childhood Developmental Health | 3 |
| FMLY 2650 | The Social Aspects of Aging | 3 |
| FMLY 2800 | Family Violence | 3 |
| FMLY 3012 | Theories of Social Development | 3 |
| FMLY 3220 | Death and the Family | 3 |
| FMLY 3240 | Families in the Later Years | 3 |
| FMLY 3330 | Parenting and Developmental Health | 3 |
| FMLY 3400 | Families as Consumers | 3 |
| FMLY 3470 | Selected Studies in the Family I | 3 |
| FMLY 3600 | Adolescents in Families and Society | 3 |

| | | |
|-----------|--|---|
| FMLY 3800 | Conflict Resolution in the Family | 3 |
| FMLY 3802 | Intimate Partner Violence | 3 |
| FMLY 3806 | Children, Violence and Rights | 3 |
| FMLY 4012 | Social Development Policies | 3 |
| FMLY 4300 | Field Experience | 6 |
| FMLY 4330 | Management of Family Stress | 3 |
| FMLY 4400 | Family Economics: Poverty and Wealth | 3 |
| FMLY 4470 | Selected Studies in the Family II | 3 |
| FMLY 4480 | Work and Family Issues | 3 |
| FMLY 4500 | Senior Thesis | 3 |
| FMLY 4604 | Children in Adversity | 3 |
| FMLY 4606 | A Social Justice Perspective on Indigenous Maternal and Child Health | 3 |
| FMLY 4802 | Family Violence Prevention | 3 |
| HEAL 4500 | Injury Prevention Across the Life Course | 3 |

4.2.8 Bachelor of Health Studies Program Electives List Admission as of September 2018

The B.H.St. Electives List in this section applies only to those students admitted to the B.H.St. degree program in the Fall of 2018 and later. The existing list of IHP electives should be followed by students admitted to the B.H.St. prior to the Fall of 2018. The existing list of IHP electives can be found in [section 4.2.10](#)

The science requirement may be met using any course offered by the Faculty of Science on the approved elective list (see below), in addition to the following courses:

Faculty of Agricultural and Food Sciences

FOOD 4150 Food Microbiology 1

HNSC 1200 Food, Facts and Fallacies

HNSC 2130 Nutrition through the Life Cycle

Clayton H. Riddell Faculty of Environment, Earth and Resources

EER 1000 Earth: A User's Guide

ENVR 1000 Environmental Science 1: Concepts

ENVR 3400 Introduction to Environment and Health

ENVR 4400 Advanced Issues in Environment and Health

Max Rady College of Medicine

BGEN 3022 Introduction to Human Genetics A

BGEN 3024 Introduction to Human Genetics B

PHGY 1030 Fundamentals of Medical Physiology

Faculty of Agricultural and Food Sciences

ABIZ 1010 Economics of World Food Issues and Policies

ABIZ 3550 Environmental Policy

HNSC 3350 Culture and Food Patterns

HNSC 3870 Food Geographies (cross-listed with GEOG 3870)

HNSC 4290 Food, Nutrition and Health Policies

SOIL 3520 Pesticides: Environment, Economics and Ethics

Faculty of Arts

ANTH 2020 Relatedness in a Globalizing World

ANTH 2040 Native North America: A Sociocultural Survey

ANTH 2240 Plagues and People

ANTH 2300 Anthropology of Childhood

ANTH 2500 Culture, Environment and Technology

ANTH 2510 Anthropology of Economic Systems

ANTH 2550 Culture and the Individual

ANTH 2560 Anthropology of Illness

ANTH 2820 Human Osteology

ANTH 2860 Evolution and Human Diversity

ANTH 2880 Human Evolution

ANTH 2890 Human Population Biology

ANTH 3200 Anthropology of Food

ANTH 3320 Women in Cross-Cultural Perspective

ANTH 3330 Sex and Sexualities

ANTH 3500 Peoples of the Arctic

ANTH 3550 Canadian Subcultures

ANTH 3740 Human Growth and Variation

ANTH 3750 Anthropological Perspectives on Globalization and the World-System

ANTH 4860 Selected Topics in Biological Anthropology

ECON 2310 Canadian Economic Problems

ECON 2350 Community Economic Development

ECON 2362 Economics of Gender

ECON 2410 The Manitoba Economy

ECON 3690 Economic Issues of Health Policy

ECON 3692 Economic Determinants of Health

ECON 4140 Evaluation of Economic Policy and Programs

GPE 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change

HIST 2010 Indigenous History in Canada

HIST 2400 History of Human Rights and Social Justice in the Modern World

HIST 3730 A History Western Canada

LABR 1260 Working for a Living

LABR 3060 Workplace Health and Safety

LABR 3070 Labour Relations and Occupational Health and Safety Law

NATV 1220 Indigenous Peoples in Canada, Part 1

NATV 1240 Indigenous Peoples in Canada, Part 2

NATV 1250 Introductory Cree 1

NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1

NATV 2020 The Métis in Canada

NATV 2040 The Dakota, Lakota, and Nakota Nations

NATV 2060 Eastern Woodlands Encounters Columbus to Confederation

NATV 2070 Cree, Innu, and Dene Nations

NATV 2080 Inuit Society and Culture

NATV 2100 Indigenous Spirituality

NATV 2110 Introduction to Indigenous Community Development

NATV 3100 Indigenous Healing Ways

NATV 3150 Residential School Literature

NATV 3240 Indigenous Medicine and Health

NATV 3330 Indigenous People, Science and the Environment

PHIL 1200 Introduction to Philosophy

PHIL 2150 Mind and Body

PHIL 2290 Ethics and Society

PHIL 2750 Ethics and the Environment

POLS 3100 Gender and Politics in Canada

POLS 3160 Human Rights and Civil Liberties

POLS 3860 Canadian Federalism

POLS 4190 Manitoba Politics and Government

PSYC 2250 Introduction to Psychological Research

PSYC 2260 Introduction to Research Methods in Psychology

PSYC 2290 Child Development

PSYC 2360 Brain and Behaviour

PSYC 2440 Behaviour Modification Principles

PSYC 2470 Learning Foundations of Psychology

PSYC 2480 Cognitive Processes

| | |
|---|--|
| PSYC 2490 Abnormal Psychology | SOC 3730 Society and Education |
| PSYC 2530 Psychology of Personality PSYC 2540 Social Psychology | SOC 3750 Institutional Responses to Violence in Family and Intimate Relationships |
| PSYC 3070 Adult Development | SOC 3770 Women, Health and Medicine |
| PSYC 3130 Introduction to Health Psychology | SOC 3790 Women, Crime and Social Justice |
| PSYC 3150 Behavioural Modification Applications PSYC 3160 Perception and Attention | SOC 3810 Sociological Perspectives on Gender and Sexuality |
| PSYC 3310 Adolescent Development | SOC 3820 Qualitative and Historical Methods in Sociology |
| PSYC 3390 Thinking | SOC 3830 Youth, Crime and Society |
| PSYC 3430 Sensory Processes | SOC 3840 Community and Social Reconstruction |
| PSYC 3470 Dyadic Relations | SOC 3860 Genocide, Crime and Society |
| PSYC 3490 Individual Differences | SOC 3890 Power and Inequality in Comparative Perspective |
| PSYC 3580 Language and Thought | WOMN 1600 Introduction to Women's and Gender Studies in the Social Sciences |
| PSYC 3630 Psychological Measurement and Assessment | WOMN 2000 Feminist Thought |
| RLGN 1322 Introduction to Eastern Religions | WOMN 2500 Race, Class and Sexuality |
| RLGN 1324 Introduction to Western Religions | WOMN 2560 Women, Science and Technology |
| RLGN 1410 Death and Concepts of the Future | WOMN 2600 Sex, Gender, Space and Place |
| RLGN 1420 Ethics in World Religions | WOMN 2610 Gender, Transport and Social Justice WOMN 3000 Interdisciplinary Research in Women's and Gender Studies |
| RLGN 1430 Food: Religious Concepts and Practices | WOMN 3560 Feminist Perspectives on Violence Against Women |
| RLGN 2060 Religion and Violence | |
| RLGN 2590 Religion and Social Issues | I. H. Asper School of Business |
| SOC 2320 Canadian Society and Culture | ACC 1100 Introductory Financial Accounting |
| SOC 2330 Social Psychology in Sociological Perspective | ACC 1110 Introductory to Managerial Accounting |
| SOC 2360 Small Group Interaction | GMGT 2060 Management and Organizational Theory |
| SOC 2370 Ethnic Relations | HRIR 2440 Human Resource Management |
| SOC 2390 Social Organization | HRIR 3450 Labour and Employment Relations |
| SOC 2460 The Family | HRIR 4410 Staffing and Management Development |
| SOC 2470 Courtship and Marriage | HRIR 4420 Compensation |
| SOC 2490 Sociology of Health and Illness | LEAD 2010 Learning to Lead |
| SOC 2510 Criminology | LEAD 3010 Negotiation and Conflict Management |
| SOC 2610 Sociology of Criminal Justice and Corrections | LEAD 4020 Leadership, Power and Politics in Organizations |
| SOC 2620 The Sociology of Aging | MIS 2000 Information Systems for Management |
| SOC 2630 Social Change | MIS 3510 Systems Analysis and Design |
| SOC 3310 Theorizing Crime, Law and Social Justice | MIS 3520 Data Communications and Networking |
| SOC 3370 Sociology of Work | Clayton H. Riddell Faculty of Environment, Earth and Resources |
| SOC 3380 Power, Politics and the Welfare State | GEOG 1280 Introduction to Human Geography |
| SOC 3400 Policing and Crime Prevention | GEOG 1290 Introduction to Physical Geography |
| SOC 3540 The Sociology of Health Care Systems | GEOG 1700 Social Justice in the 21 st Century: Global Political Economy and Environmental Change |
| SOC 3660 Sociology of Mental Disorder | GEOG 2330 Place, Populations and Mobility: Geographic Perspectives |

GEOG 2640 Geography of Culture and Inequality
 GEOG 3640 Social Geography of the Environment
 GEOG 3870 Food Geographies
 GEOG 4280 Gender and the Human Environment

Faculty of Education

EDUA 1560 Adult Learning and Development
 EDUA 1570 Foundations of Adult Education
 EDUA 1580 Program Planning in Adult Education
 EDUA 1590 Facilitating Adult Education

Rady Faculty of Health Sciences

HEAL 1600 Health and Health Professions
 HEAL 4500 Injury Prevention Across the Life Course
 HMEC 4090 Practicum in Human Ecology

Max Rady College of Medicine

BGEN 3022 Introduction to Human Genetics A
 BGEN 3024 Introduction to Human Genetics B
 PHGY 1030 Fundamentals of Medical Physiology
 FMLY 1000 Families in Contemporary Canadian Society
 FMLY 1010 Human Development in the Family
 FMLY 1012 Introduction to Social Development
 FMLY 1420 Family Management Principles
 FMLY 2012 Development, Conflict, and Displacement
 FMLY 2400 Family Financial Health
 FMLY 2500 Diversity and Families
 FMLY 2600 Foundations of Childhood Developmental Health
 FMLY 2650 (former HMEC 2650) The Social Aspects of Aging
 FMLY 2800 Family Violence
 FMLY 3012 Theories of Social Development
 FMLY 3220 Death and the Family
 FMLY 3240 Families in Later Years
 FMLY 3330 Parenting and Developmental Health
 FMLY 3400 Families as Consumers
 FMLY 3470 Selected Studies in the Family I
 FMLY 3600 Adolescents in Families and Society
 FMLY 3750 Fundamentals of Health Promotion
 FMLY 3800 Conflict Resolution in the Family
 FMLY 3802 Intimate Partner Violence
 FMLY 3806 Children, Violence and Rights

FMLY 4012 Social Development Policies
 FMLY 4220 Aging and Risk in a Global Context
 FMLY 4300 Field Experience
 FMLY 4330 Management of Family Stress
 FMLY 4400 Family Economics: Poverty and Wealth
 FMLY 4470 Selected Studies in the Family II
 FMLY 4480 Work and Family Issues
 FMLY 4500 Senior Thesis
 FMLY 4604 Children in Adversity
 FMLY 4606 A Social Justice Perspective on Indigenous Maternal and Child Health
 FMLY 4802 Family Violence Prevention

College of Nursing

NURS 2610 Health and Physical Aspects of Aging
 NURS 3330 Women and Health
 NURS 3400 Men's Health: Concerns, Issues and Myths
 NURS 4520 Professional Foundations 5: Interprofessional and Collaborative Practice

Faculty of Kinesiology and Recreation Management

KIN 2610 Health and Physical Aspects of Aging
 KIN 3450 Motor Control and Learning
 KIN 3510 Physical Activity and Aging
 KPER 1200 Physical Activity, Health and Wellness
 KPER 2200 Planning Principles
 KPER 2700 Motor Control and Living
 KPER 3100 Inclusive Physical Activity and Leisure
 REC 2650 The Social Aspects of Aging
 REC 3220 Program Planning and Evaluation
 REC 4250 Leisure and Aging

Faculty of Science

*** any of these courses from the Faculty of Science can be used to satisfy the 6 credit hour science requirement**

BIOL 1000 Biology: Foundations of Life
 BIOL 1010 Biology: Biological Diversity and Interaction (NB. 1000/1010 cannot be held with BIOL 1020/BIOL 1030)
 OR
 BIOL 1020 Biology 1: Principles and Themes
 BIOL 1030 Biology 2: Biological Diversity, Function and Interactions
 BIOL 1340 The State of the Earth's Environment: Contemporary Issues
 BIOL 1410 Anatomy of the Human Body

BIOL 1412 Physiology of the Human Body

BIOL 2520 Cell Biology

BIOL 3290 Medicinal and Hallucinogenic Plants

CHEM 1300 University 1 Chemistry: Structure and Modelling in Chemistry

CHEM 1310 University 1 Chemistry: An Introduction to Physical Chemistry

CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry

CHEM 2210 Introductory Organic Chemistry 1: Structure and Function

CHEM 2220 Introductory Organic Chemistry 2: Reactivity and Synthesis

CHEM 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy

CHEM 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways

CHEM 2770 Elements of Biochemistry 1

CHEM 2780 Elements of Biochemistry 2

MATH 1080 Fundamentals of Mathematical Reasoning

MATH 1090 Mathematical Reasoning in Euclidean Geometry

MATH 1220 Linear Algebra 1

MATH 1230 Differential Calculus

MATH 1300 Vector Geometry and Linear Algebra

MATH 1500 Introduction to Calculus

MBIO 1010 Microbiology 1

MBIO 1220 Essentials of Microbiology

MBIO 1410 Introduction of Molecular Biology

MBIO 2020 Microbiology II

MBIO 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy

MBIO 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways

MBIO 2420 Introductory Virology

PHYS 1020 General Physics 1

PHYS 1030 General Physics 2

PHYS 1050 Physics 1: Mechanics

PHYS 1070 Physics 2: Waves and Modern Physics

STAT 2000 Basic Statistical Analysis 2

Faculty of Social Work

SWRK 1310 Introduction to Social Welfare Policy Analysis

SWRK 2050 Community and Organizational Theory

SWRK 2080 Interpersonal Communication Skills

SWRK 2110 Emergence of the Canadian Social Welfare State

SWRK 2130 Comparative Social Welfare Systems

SWRK 2650 The Social Aspects of Aging

SWRK 3130 Contemporary Canadian Social Welfare

4.2.9 Bachelor of Health Sciences prior to September 2018

Health Sciences Degree (Total credit hours: 120)

The Bachelor of Health Sciences degree provides students with an interdisciplinary background and skill set that will contribute to their preparation for a future in health-related careers. This interdisciplinary skill set is seen as advantageous for students applying for education in professional programs and graduate studies.

| Year 1 | Year 2 | Years 3 and 4 |
|-------------------|--|---|
| CHEM 1300 | PHIL 1290 ECON 1210 | HEAL 4620 |
| CHEM 1310 | GMGT 1010 or GMGT 2070 | 36 credit hours from the approved list of electives, of which at least 24 credit hours must be at the 3000 and 4000 level, and including: At least 21 credit hours of Science electives At least 12 credit hours of Social Science electives 15 credit hours of Free Electives |
| BIOL 1020 | HNSC 1210 | |
| BIOL 1030 | FMLY 3780 or FMLY 3790 | |
| BIOL 1410 | PSYC 2250 or HNSC (HMEC) 2000 | |
| BIOL 1412 | NATV 1220 or NATV 1240 | |
| STAT 1000 | HEAL (HMEC) 3000 | |
| PSYC 1200 | 6 credit hours chosen from: | |
| 3 Credit hours of | PHIL 2740 GEOG 4290 | |
| Free Electives | SOC 2490 HEAL 2600 ¹ HEAL 3600 ¹ HEAL 4600 ¹ | |

Biomedical Sciences Concentration

Students registered in the Bachelor of Health Sciences can choose to complete a Biomedical Sciences concentration. This concentration offers courses related to the mechanisms of disease, giving students an opportunity to experience how diseases are researched through biomedical laboratory experience. This concentration will provide students not only with an interdisciplinary experience involving both the biological and social sciences, but with a new path to further studies in biomedical disciplines.

A written statement must be submitted to the Student Advisor declaring an interest in obtaining the concentration normally by May 15, following completion of HEAL 3610 (minimum grade of B). Students will be informed whether they have been accepted into the concentration normally by mid-June.

Normally, enrolment will be limited to the 24 eligible students who have achieved the highest degree GPAs after completion of HEAL 3610.

| Biomedical Sciences Concentration ^{2,3,4} | Year 3 | Year 4 |
|--|--|--|
| | BIOL 2520 CHEM 2360 HEAL 3610 ⁶ | HEAL 4630 ⁵ HEAL 4640 ⁵ |

Notes:

- HEAL 2600, HEAL 3600, and HEAL 4600 are offered in a case-study format in years 2, 3 and 4.
- It is recommended that students accepted into the Biomedical Sciences concentration complete PHAC 4030 and PHAC 4040 as 6 credit hours of the Science electives.
- Only students registered in the B.H. Sc. degree program may complete a Biomedical Sciences concentration.
- Courses required for the Biomedical Sciences concentration could count toward 18 of the 36 credit hours of approved elective course work to be

completed in Years 3 and 4 of the B.H.Sc. degree.

⁵ Registration in HEAL 4630 and HEAL 4640 is restricted to students accepted into the Biomedical Sciences concentration and requires permission of the Instructor. Registration in these courses must be confirmed by the Student Advisor.

⁶ HEAL 3610 will be offered as an elective course for all students in the B.H.Sc. degree.

Health Studies Degree (Total credit hours: 120) Prior To Admission for September 2018

The curriculum of this program integrates social science concepts, such as sociology and economics with science concepts, such as biology and metabolism. The integration supports the promotion of health by creating a new understanding among graduates of the determinants of health and how these determinants influence the health of individuals, families, and communities, as well as health services. This degree combines knowledge from science and social science disciplines in their content and learning experiences.

| Year 1 | Year 2 | Years 3 and 4 |
|----------------------------------|-------------------------------|--|
| PSYC 1200 | PHIL 1290 | HEAL 4610 |
| SOC 1200 | ECON 1210 | <p>36 credit hours from the approved list of electives, of which at least 24 credit hours must be at the 3000 and 4000 level, and including:</p> <p>At least 21 credit hours of Social Science electives</p> <p>At least 12 credit hours of Science electives</p> <p>15 credit hours of Free Electives</p> |
| ANTH 1210 | GMGT 1010 or GMGT 2070 | |
| ANTH 1220 | HNSC 1210 | |
| BIOL 1020 | FMLY 3780 or FMLY 3790 | |
| BIOL 1030 | PSYC 2250 or HNSC (HMEC) 2000 | |
| STAT 1000 | NATV 1220 or NATV 1240 | |
| 3 Credit hours of Free Electives | HEAL (HMEC) 3000 | |
| | 6 credit hours chosen from: | |
| | PHIL 2740 | |
| | GEOG 4290 | |
| | SOC 2490 | |
| | HEAL 2600 ¹ | |
| | HEAL 3600 ¹ | |
| | HEAL 4600 ¹ | |

Notes:

¹ HEAL 2600, HEAL 3600, and HEAL 4600 are offered in a case-study format in years 2, 3 and 4.

² Before entering continuing years in the Interdisciplinary Health Program, the overall program must be planned with academic advice. Program advising begins in early April.

³ Students are strongly encouraged to seek the advice of Academic Advisors in the Interdisciplinary Health Program in order to plan their programs to develop pathways of knowledge that will assist them in moving toward careers in chosen fields.

⁴ Students in both programs are required to structure their course selections as follows:

In Health Sciences, students are required to take 21 credit hours of science and 12 credit hours of social science courses from 36 credit hours of Approved Electives.

In Health Studies, students are required to take 21 credit hours of social science and 12 credit hours of science courses from 36 credit hours of Approved Electives.

⁵ Students in both programs are required to take at least 24 credit hours at the 3000 and 4000 levels from 36 credit hours of Approved Electives.

Students should consult the University Calendar to ensure that they have the appropriate pre- or corequisites before they attempt to register in a course. A number of courses are cross-listed between departments/faculties. The Academic Advisor will give additional guidance.

4.2.10 Interdisciplinary Health Program Electives List (Bachelor of Health Sciences and Bachelor of Health Studies prior to September 2018)

Sciences Orientation Electives

Faculty of Agricultural and Food Sciences

- FOOD 4150 Food Microbiology 1
- FOOD 4540 Functional Foods and Nutraceuticals
- HNSC 2130 Nutrition through the Life Cycle
- HNSC 2140 Basic Principles of Human Nutrition
- HNSC 3300 Vitamins and Minerals in Human Health
- HNSC 3310 Macronutrients and Human Health
- HNSC 3320 Nutrition Education and Dietary Change
- HNSC 3342 Management for Food and Nutrition Professionals
- HNSC 3870 Food Geographies (cross-listed with GEOG 3870)
- HNSC 4290 Food, Nutrition and Health Policies
- HNSC 4300 Community Nutrition Intervention
- HNSC 4310 Nutrition and the Elderly
- HNSC 4340 Maternal and Child Nutrition
- HNSC 4350 Nutrition in Exercise and Sport
- HNSC 4540 Functional Foods and Nutraceuticals

Faculty of Arts

- PSYC 2290 Child Development
- PSYC 2360 Brain and Behaviour
- PSYC 2490 Abnormal Psychology
- PSYC 3430 Sensory Processes

I H Asper School of Business

- MIS 2000 Information Systems for Management
- MIS 3500 Database Management Systems
- MIS 3510 Systems Analysis and Design
- MIS 3520 Data Communications and Knowledge

Clayton H Riddell Faculty of Environment, Earth and Resources

- EER 1000 Earth: A User's Guide
- ENVR 1000 Environmental Science 1: Concepts

ENVR 3400 Introduction to Environment and Health
 ENVR 4400 Advanced Issues in Environment and Health
 GEOG 1280 Introduction to Human Geography
 GEOG 1290 Introduction to Physical Geography
 GEOG 3870 Food Geographies (cross-listed with HNSC 3870)

Rady Faculty of Health Sciences

Max Rady College of Medicine

BGEN 3022 Introduction to Human Genetics A
 BGEN 3024 Introduction to Human Genetics B
 HMEC 4090 Practicum in Human Ecology
 PHAC 4030 Drugs in Human Disease I
 PHAC 4040 Drugs in Human Disease II

College of Nursing

NURS 2610 Health and Physical Aspects of Aging

Faculty of Science

BIOL 1412 Physiology of the Human Body
 BIOL 2300 Principles of Ecology
 BIOL 2410 Human Physiology 1
 BIOL 2420 Human Physiology 2
 BIOL 2500 Genetics 1
 BIOL 2520 Cell Biology
 BIOL 2380 Introductory Toxicology
 BIOL 2390 Introductory Ecology
 BIOL 3270 Introduction to Parasitology
 BIOL 3290 Medicinal and Hallucinogenic Plants
 BIOL 3470 Environmental Physiology of Animals 1
 BIOL 3500 Genetics 2
 BIOL 3542 Developmental Biology
 BIOL 3560 Comparative Animal Histology
 BIOL 4542 Genes and Development
 BIOL 4544 Advanced Developmental and Cellular Biology
 CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry
 CHEM 2210 Introductory Organic Chemistry 1: Structure and Function
 CHEM 2220 Introductory Organic Chemistry 2: Reactivity and Synthesis
 CHEM 2360/MBIO 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy
 CHEM 2370/MBIO 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways
 CHEM 2770 Elements of Biochemistry 1

CHEM 2780 Elements of Biochemistry 2
 CHEM 3570 Biophysical Chemistry
 CHEM 4360 Signaling and Regulation of Gene Expression
 CHEM 4370 Glycobiology and Protein Activation
 CHEM 4620 Biochemistry of Nucleic Acids
 CHEM 4630 Biochemistry of Proteins
 CHEM 4670 Drug Design and Drug Discovery
 MATH 1220 Linear Algebra 1
 MATH 1230 Differential Calculus
 MATH 1300 Vector Geometry and Linear Algebra
 MATH 1500 Introduction to Calculus
 MATH 2140 Modelling
 MATH 3330 Computational Algebra
 MATH 3440 Ordinary Differential Equations
 MATH 3460 Partial Differential Equations
 MBIO 1010 Microbiology 1
 MBIO 1220 Essentials of Microbiology
 MBIO 1410 Introduction to Molecular Biology
 MBIO 2020 Microbiology 2
 MBIO 2360 Biochemistry 1: Biomolecules and Introduction to Metabolic Energy
 MBIO 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways
 MBIO 2420 Introductory Virology
 MBIO 3000 Biosafety
 MBIO 3010 Mechanisms of Microbial Disease
 MBIO 3030 Microbiology 3
 MBIO 3430 Molecular Evolution
 MBIO 3450 Regulation of Biochemical Processes
 MBIO 3460 Membrane and Cellular Biochemistry
 MBIO 3470 Microbial Systematics
 MBIO 4010 Immunology H
 MBIO 4020 Immunology
 MBIO 4410 Virology
 MBIO 4440 Systems Microbiology
 MBIO 4480 Microbes in our Environment
 PHYS 1020 General Physics 1
 PHYS 1030 General Physics 2
 PHYS 1050 Physics 1: Mechanics
 PHYS 1070 Physics 2: Waves and Modern Physics

PHYS 3220 Medical Physics and Physiological Measurement

STAT 2000 Basic Statistical Analysis 2

STAT 3000 Applied Linear Statistical Models

STAT 3170 Statistical Quality Control

STAT 3380 An Introduction to Nonparametric Statistic

Social Science Orientation Electives

Faculty of Agricultural and Food Sciences

ABIZ 1010 Economics of World Food Issues and Policies

ABIZ 3550 Environmental Policy

HNSC 1200 Food, Facts and Fallacies

HNSC 2130 Nutrition through the Life Cycle

HNSC 3350 Cultural and Food Patterns

HNSC 4290 Food Nutrition Health Policies

SOIL 3520 Pesticides: Environment, Economics and Ethics

Faculty of Arts

ANTH 2020 Relatedness in a Globalizing World

ANTH 2040 Native North America: A Sociocultural Survey

ANTH 2240 Plagues and People

ANTH 2300 Anthropology of Childhood

ANTH 2500 Culture, Environment and Technology

ANTH 2510 Anthropology of Economic Systems

ANTH 2550 Culture and the Individual

ANTH 2560 Anthropology of Illness

ANTH 2820 Human Osteology

ANTH 2860 Evolution and Human Diversity

ANTH 2880 Human Evolution

ANTH 2890 Human Population Biology

ANTH 3200 Anthropology of Food

ANTH 3320 Women in Cross-Cultural Perspective

ANTH 3330 Sex and Sexualities

ANTH 3500 Peoples of the Arctic

ANTH 3550 Canadian Subcultures

ANTH 3740 Human Growth and Variation

ANTH 3750 Anthropological Perspectives on Globalization and the World-System

ANTH 4860 Special Topics in Biological Anthropology

ECON 2310 Canadian Economic Problems

ECON 2350 Community Economic Development

ECON 2362 Economics of Gender

ECON 2410 The Manitoba Economy

ECON 3690 Economic Issues of Health Policy

ECON 3692 Economic Determinants of Health

ECON 4140 Evaluation of Economic Policy and Programs

GPE 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change

HIST 2280 Aboriginal History of Canada

HIST 2400 History of Human Rights and Social Justice in the Modern World

HIST 3730 A History Western Canada

LABR 1260 Working for a Living

LABR 3050 Issues in Occupational Health and Safety and Workers' Compensation

LABR 3060 Workplace Health and Safety

LABR 3070 Labour Relations and Occupational Health and Safety Law

NATV 1220 Indigenous Peoples in Canada, Part 1

NATV 1240 Indigenous Peoples in Canada, Part 2

NATV 1250 Introductory Cree 1

NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1

NATV 2020 The Métis in Canada

NATV 2040 The Dakota, Lakota, and Nakota Nations

NATV 2060 Eastern Woodlands Encounters Columbus to Confederation

NATV 2070 Cree, Innu, and Dene Nations

NATV 2080 Inuit Society and Culture

NATV 2100 Indigenous Spirituality Aboriginal Spirituality

NATV 2110 Introduction to Indigenous Community Development

NATV 3100 Indigenous Healing Ways

NATV 3150 Residential School Literature

NATV 3240 Indigenous Medicine and Health

NATV 3330 Indigenous People, Science and the Environment

PHIL 1200 Introduction to Philosophy

PHIL 2150 Mind and Body

PHIL 2290 Ethics and Society

PHIL 2740 Ethics and Biomedicine

PHIL 2750 Ethics and the Environment

POLS 3100 Gender and Politics in Canada

POLS 3160 Human Rights and Civil Liberties

POLS 3860 Canadian Federalism

POLS 3960 Canadian Politics

POLS 4190 Manitoba Politics and Government

| | |
|--|---|
| PSYC 2250 Introduction to Psychological Research | SOC 2620 The Sociology of Aging |
| PSYC 2260 Introduction to Research Methods in Psychology | SOC 2630 Social Change |
| PSYC 2290 Child Development | SOC 3310 Theorizing Crime, Law and Social Justice |
| PSYC 2390 Psychology of Women | SOC 3370 Sociology of Work |
| PSYC 2400 Psychology of Sex Differences | SOC 3380 Power, Politics and the Welfare State |
| PSYC 2440 Behaviour Modification Principles | SOC 3400 Policing and Crime Prevention |
| PSYC 2470 Learning Foundations of Psychology | SOC 3540 The Sociology of Health Care Systems |
| PSYC 2480 Cognitive Processes | SOC 3660 Sociology of Mental Disorder |
| PSYC 2490 Abnormal Psychology | SOC 3730 Society and Education |
| PSYC 2530 Psychology of Personality | SOC 3750 Institutional Responses to Violence in Family and Intimate Relationships |
| PSYC 2540 Social Psychology | SOC 3770 Women, Health and Medicine |
| PSYC 3070 Adult Development | SOC 3790 Women, Crime and Social Justice |
| PSYC 3130 Introduction to Health Psychology | SOC 3810 Sociological Perspectives on Gender and Sexuality |
| PSYC 3150 Behaviour Modifications Applications | SOC 3820 Qualitative and Historical Methods in Sociology |
| PSYC 3310 Adolescent Development | SOC 3830 Youth, Crime and Society |
| PSYC 3390 Thinking | SOC 3840 Community and Social Reconstruction |
| PSYC 3160 Perception and Attention | SOC 3860 Genocide, Crime and Society |
| PSYC 3470 Dyadic Relations | SOC 3890 Power and Inequality in Comparative Perspective |
| PSYC 3490 Individual Differences | WOMN 1600 Introduction to Women's & Gender Studies in the Social Sciences |
| PSYC 3580 Language and Thought | WOMN 2000 Feminist Thought |
| PSYC 3630 Psychological Measurement and Assess | WOMN 2500 Race, Class and Sexuality |
| RLGN 1322 Introduction to Eastern Religions | WOMN 2560 Women, Science and Technology |
| RLGN 1324 Introduction to Western Religions | WOMN 2600 Sex, Gender, Space and Place |
| RLGN 1410 Death and Concepts of the Future | WOMN 2610 Gender, Transport and Social Justice |
| RLGN 1420 Ethics in World Religions | WOMN 3000 Interdisciplinary Research in Women's and Gender Studies |
| RLGN 1430 Food: Religious Concepts and Practices | WOMN 3330 Sex and Sexualities |
| RLGN 2060 Religion and Violence | WOMN 3560 Feminist Perspectives on Violence Against Women |
| RLGN 2590 Religion and Social Issues | |
| SOC 2320 Canadian Society and Culture | I. H. Asper School of Business |
| SOC 2330 Social Psychology in Sociological Perspectives | ACC 1100 Introduction to Financial Accounting |
| SOC 2360 Small Group Interaction | ACC 1110 Introduction to Managerial Accounting |
| SOC 2370 Ethnic Relations | GMGT 2060 Management and Organization Theory |
| SOC 2390 Social Organization | HRIR 2440 Human Resource Management |
| SOC 2460 The Family | HRIR 3450 Labour and Employment Relations |
| SOC 2470 Courtship and Marriage | HRIR 4410 Staffing and Management Development |
| SOC 2490 Sociology of Health and Illness | HRIR 4420 Compensation |
| SOC 2510 Criminology | Clayton H. Riddell Faculty of Environment, Earth and Resources |
| SOC 2610 Sociology of Criminal Justice and Corrections | GEOG 1280 Introduction to Human Geography |

GEOG 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change

GEOG 2330 Place, Populations and Mobility: Geographic Perspectives

GEOG 2640 Geography of Culture and inequality

GEOG 3640 Social Geography of the Environment

GEOG 4280 Gender and the Human Environment

Rady Faculty of Health Sciences

HEAL 4500 Injury Prevention Across the Life Course

HMEC 4090 Practicum in Human Ecology

Max Rady College of Medicine

FMLY 1000 Families in Contemporary Canadian Society

FMLY 1010 Human Development in the Family

FMLY 1012 Introduction to Social Development

FMLY 1420 Family Management Principles

FMLY 2012 Development, Conflict and Displacement

FMLY 2400 Family Financial Health

FMLY 2500 Diversity and Families

FMLY 2600 Foundations of Childhood Developmental Health

FMLY 2650 The Social Aspects of Aging

FMLY 2800 Family Violence

FMLY 3012 Theories of Social Development

FMLY 3220 Death and the Family

FMLY 3240 Families in the Later Years

FMLY 3330 Parenting and Developmental Health

FMLY 3400 Families as Consumers

FMLY 3470 Selected Studies in the Family I

FMLY 3600 Adolescents in Families and Society

FMLY 3750 Fundamentals of Health Promotion

FMLY 3780 Introduction to the Development of Programs for Children and Families

FMLY 3790 Introduction to the Evaluation of Programs for Children and Families

FMLY 3800 Conflict Resolution in the Family

FMLY 3802 Intimate Partner Violence

FMLY 3806 Children, Violence and Rights

FMLY 4012 Social Development Policies

FMLY 4220 Aging and Risk in a Global Context

FMLY 4330 Management of Family Stress

FMLY 4400 Family Economics: Poverty and Wealth

FMLY 4470 Selected Studies in the Family II

FMLY 4480 Work and Family Issues

FMLY 4500 Senior Thesis

FMLY 4602 Family Relationships, Health and Well-Being

FMLY 4604 Children in Adversity

FMLY 4606 A Social Justice Perspective on Indigenous Maternal and Child Health

FMLY 4802 Family Violence Prevention

College of Nursing

NURS 2610 Health and Physical Aspects of Aging

NURS 3330 Women and Health

NURS 3400 Men’s Health: Concerns, Issues and Myths

Faculty of Kinesiology and Recreation Management

KIN 2610 Health and Physical Aspects of Aging

KIN 4500 Aging and Health

PERS 1200 Physical Activity, Health and Wellness

PERS 3100 Inclusive Physical Activity and Leisure

REC 2650 The Social Aspects of Aging

REC 4250 Leisure and Aging F

Faculty of Social Work

SWRK 1310 Introduction to Social Welfare Policy Analysis

SWRK 2050 Community and Organizational Theory

SWRK 2080 Interpersonal Communication Skills

SWRK 2110 Emergence of the Canadian Social Welfare State

SWRK 2130 Comparative Social Welfare Systems

SWRK 2650 The Social Aspects of Aging

SWRK 3130 Contemporary Canadian Social Welfare

4.3 Health Sciences and Health Studies Minors

Minors in Health Sciences and Health Studies are offered by the Interdisciplinary Health Degree program.

| | |
|-------------------------------|--|
| Health Sciences Minor: | |
| HEAL 2600 | Integration of Health Determinants of Individuals |
| HEAL 3600 | Integration of Health Determinants for Communities |
| HEAL 4600 | Integration of Health Determinants for Canada and the World |
| | 6 credit hours of Science Orientation courses at the 3000 or 4000 level |
| | 3 credit hours of Social Science Orientation courses at the 3000 or 4000 level |
| Total Credit Hours | 18 credit hours |
| Health Studies Minor: | |
| HEAL 2600 | Integration of Health Determinants of Individuals |

| | |
|---------------------------|--|
| HEAL 3600 | Integration of Health Determinants for Communities |
| HEAL 4600 | Integration of Health Determinants for Canada and the World |
| | 6 credit hours of Social Science Orientation courses at the 3000 or 4000 level |
| | 3 credit hours of Science Orientation courses at the 3000 or 4000 level |
| Total Credit Hours | 18 credit hours |

4.4 Interfaculty Option in Aging

An Option in Aging is offered by and in the following faculties, schools, and colleges: Arts, Rady Faculty of Health Sciences: Bachelor of Human Ecology Family Social Sciences Degree Program, Interdisciplinary Health Program, Nursing, Kinesiology and Recreation Management, Social Work, and Agricultural and Food Sciences: Bachelor of Science in Human Nutritional Sciences Program.

To complete the option, students in the Interdisciplinary Health Program must complete each of the following requirements:

| Interfaculty Option in Aging | | |
|--|---|---|
| Required Courses (6 credit hours): | FMLY 2650 (formerly HMEC 2650) or REC 2650 or SWRK 2650 The Social Aspects of Aging | KIN 2610 or NURS 2610 Health and Physical Aspects of Aging |
| At least six (6) credit hours of discipline-specific (professional) applied work in the student's department of registration | Human Ecology Courses: FMLY 4300 HMEC 4090 Agricultural and Food Sciences Course: HNSC 4362 | Application is required for all field placement or practicum courses. |
| Six (6) credit hours of aging-related courses from participating units | Human Ecology Courses: FMLY 3220 FMLY 3240 FMLY 4220 Agricultural and Food Science Courses: HNSC 2130 HNSC 4310 | |

Upon completion of these requirements, a comment will be added to the student's transcript.

4.5 The Minor in Management

A Management Minor is offered by the Asper School of Business. Interdisciplinary Health students may complete this Minor as part of the electives portion of their programs. The Minor will consist of any 18 credit hours of Management courses. Students must meet prerequisites for all courses.

4.6 The Voluntary Minor

Students in the Interdisciplinary Health Program may declare and complete a Minor from departments and interdisciplinary programs in which a Minor is offered. A Family Social Sciences Minor is available. Information about Minors in programs other than Interdisciplinary Health is found in the appropriate description of departmental/school/faculty program offerings in the Academic Calendar.

Completion of the Minor is entirely optional. Students may not, however, declare both their Major and Minor from the same department/interdisciplinary program. No course may be used as part of a prescribed program in the Interdisciplinary Health Program and also be part of a prescribed Minor. For example, if a course in Chemistry is part of a student's degree requirements, it cannot be used as part of a Minor in another program. Completion of a Minor may require that a student take more than the minimum number of credit hours for graduation.

SECTION 5: General Human Ecology Course Descriptions-4000 Level

HMEC 4090 Practicum in Human Ecology Cr. Hrs. 6

This is a partnership among the university, field supervisor, and the student. It provides an opportunity for students to work in a supervised setting (e.g., health, social services or business) with health professionals as field supervisors. Students also have in-class experiences and assignments with an academic instructor. Prerequisite: 84 credit hours in the Human Ecology General or Interdisciplinary Health program and consent of instructor. Application required. Limited Enrolment.

SECTION 5: Interdisciplinary Health Degree Program Course Descriptions

HEAL 1600 Health and Health Professions Cr. Hrs. 3

(Formerly BIOL 1110) Students discuss the Inter-relationship between health, health determinants, and the impact that sciences, health-science, behavioural-social sciences, and technology, have on health care and the health professions. Participants will consider their own role as health care consumers. Not to be held with BIOL 1110.

HEAL 2600 Integration of Health Determinants of Individuals Cr. Hrs. 3

Students study, integrate and apply the determinants that affect the health of individuals throughout the life span to selected case or learning scenarios. The case or learning scenarios present a variety of issues in the delivery of health-related services that are intended to benefit individual health. Prerequisites: One of CHEM 1300 or BIOL 1020 or STAT 1000; and one of PSYC 1200 or SOC 1200 or consent of instructor.

HEAL 3000 Introduction to Social Epidemiology Cr.Hrs. 3

This course provides an overview of the basic concepts, principles and methods of social epidemiology and their applications for research and practice from a human ecology perspective. Applications to social determinants of health across the life course may include but are not limited to income and food security, early child development and others. May not be held with the former HMEC 3000. Restricted to students registered in the Rady Faculty of Health Sciences, Max Rady College of Medicine, or Faculty of Agricultural and Food Sciences. Prerequisites: HNSC 2000 (or PSYC 2250 or the former HMEC 2000 or the former HMEC 2050) and HEAL 2600 (or the former HMEC 2030).

HEAL 3600 Integration of Health Determinants for Communities Cr. Hrs. 3

Students study, integrate and use community level determinants of population health in selected case or learning scenarios. These cases

present a variety of issues in the design of health related services that are intended to benefit population health. Prerequisites: HEAL 2600 with a grade of "C" or higher and 39 credit hours in the Curriculum for Interdisciplinary Health or consent of instructor.

HEAL 3610 Mechanisms of Disease 1 Cr. Hrs. 3

This course will provide an overview of cellular processes and immunology, followed by an introduction to common processes underlying the development of human diseases. These include: cell injury and death (including metabolism and aging); neoplasia, inflammation; toxins and trauma; genetic diseases and susceptibility; and immune dysregulation. The focus will be on both local and systemic disease processes, and the progression of cells and tissues from a healthy to a pathological state. For IHP students only. Prerequisites: BIOL 2520 (C) and CHEM 2360 (C).

HEAL 4500 Injury Prevention Across the Life Course Cr. Hrs. 3

This course provides an interdisciplinary life course perspective on theories and methods of injury prevention. Current research, practices and policies in injury prevention across a wide variety of contexts, including but not limited to homes, communities, sport and the workplace, will be critically reviewed with regard to issues of gender, culture, age, functional ability, socio-economic status, sexual orientation, and other determinants of health. Prerequisites: HEAL 2600 or FMYL 1000 or SOC 1200 or PSYC 1200.

HEAL 4600 Integration of Health Determinants for Canada and the World Cr. Hrs. 3

Students use selected case or learning scenarios to study the determinants of population health that depend on decision making in governmental or international agencies. The case scenarios present a variety of issues in the governance and management of population health. Prerequisites: HEAL 3600 and 57 credit hours in the Curriculum for Interdisciplinary Health or consent of instructor.

HEAL 4610 Health Studies Capstone Cr. Hrs. 3

Students will explore selected topics from the social sciences to synthesize and evaluate actions that can affect the health of people. The course summarizes the social sciences knowledge that forms the basis for all health related professional work. Prerequisite: A grade of C+ in HEAL 3600 and 57 credit hours in the Curriculum for Interdisciplinary Health or consent of instructor. Restricted to students in Health Sciences and Health Studies.

HEAL 4620 Health Sciences Capstone Cr. Hrs. 3

Students will explore selected topics from the biological sciences to synthesize and evaluate actions that can affect the health of people. The course summarizes the biological science knowledge that forms the basis for all health related professional work. Prerequisite: a grade of C+ in HEAL 3600 and 57 credit hours in the Curriculum for Interdisciplinary Health or consent of instructor. May not hold with HEAL 4610

HEAL 4630 Mechanisms of Disease 2 Cr. Hrs. 3

This course will expand upon the concepts learned in HEAL 3610 by exploring systemic diseases. The focus will be on understanding how some disease processes are not constrained by individual tissues and/or organs and may progress to affect the patient systemically. Specific diseases such as cancer, diabetes, multiple sclerosis, and HIV will be used as examples. For Bachelor of Health Sciences students only. Prerequisite: HEAL 3610 (B).

HEAL 4640 Mechanisms of Disease 3 Cr. Hrs. 3

(Lab required) Students will learn experimental techniques commonly used in modern biomedical science through lectures and laboratory sessions. Students will have the opportunity to conduct hands-on experiments in a modern research setting by rotating through five laboratory modules that will explore biomedical science methods such as histology and microscopy, cell culture, molecular biology, systems biology and proteomics, and HLA genotyping. These modules will be based on the diseases discussed in

HEAL 4630, and will allow students to establish a direct connection between their experimental work and disease mechanisms. For students in the Bachelor of Health Sciences program only. Prerequisites: HEAL 4630 (B) and HEAL 3610 (B) and instructor permission required.

HEAL 4650 Selected Topics in Interdisciplinary Health Cr. Hrs. 3

The opportunity to carry out individual study in the area of interdisciplinary health. When enrolment warrants, special topics may be offered in a regular course format. Prerequisite: Consent of Instructor and Director.

Faculty of Kinesiology and Recreation Management

Dean: Dr. Douglas Brown
 Associate Dean (s): (Undergraduate Studies) Dr. Sarah Teetzel
 Campus Address/General Office: 102 Frank Kennedy Building
 Email Address: kinrec@cc.umanitoba.ca
 Telephone: (204) 474 9747
 Fax: (204) 474 7634
 Website: umanitoba.ca/kinrec
 Academic Staff: Please refer to the faculty website at
umanitoba.ca/faculties/kinrec/about/faculty.html

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1.3 Available Option

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SECTION 7: Course Descriptions

SECTION 1: Degree Programs Offered

1.1 Programs/Majors

| Program/Degree | *Years to Complete | Total Credit Hours |
|---|--------------------|--------------------|
| Bachelor of Physical Education | 3 | 102 |
| Bachelor of Kinesiology | 4 | 120 |
| Bachelor of Kinesiology- Athletic Therapy | 4 | 120 |
| Bachelor of Recreation Management and Community Development | 4 | 120 |

Program Accreditation - CATA and CCUPEKA

The Faculty of Kinesiology and Recreation Management has three accredited programs. Two (Bachelor of Physical Education, Bachelor of Kinesiology) are accredited by CCUPEKA (The Canadian Council of University Physical Education and Kinesiology Administrators) and one (Bachelor of Kinesiology - Athletic Therapy) is accredited by the Canadian Athletic Therapy Association.

1.2 Available Minor

Minor in Recreation Studies (See Section 4.6 for details)

1.3 Available Option

Interfaculty Option in Aging (See Section 4.7 for details)

SECTION 2: Admission Requirements

Admission Information

The following is a summary of the admission requirements for the Faculty of Kinesiology and Recreation Management. All admission requirements, as well as application deadline dates and forms, are included in the Applicant Information Bulletin that is available from the Admissions Office, Enrolment Services, 424 University Centre; this information is also posted on the University of Manitoba [website](#) in January each year.

Direct Entry (from High School)

The Faculty of Kinesiology and Recreation Management accepts some of the annual admissions quota into the three degree programs (excludes Athletic Therapy) directly from High School.

In addition to the general U of M admission requirements for high school students, to be *considered* for direct entry into the Faculty of Kinesiology and Recreation Management you will require a minimum 85% average over the following courses, with no less than 60% in each individual course.

Kinesiology/Physical Education Admission Requirements (Direct Entry Category 2)

- English 40S
- Applied Mathematics 40S or Pre-Calculus Mathematics 40S
- One of Biology 40S (*recommended for Bachelor of Kinesiology*), Chemistry 40S, Physics 40S, or Computer Science 40S

Recreation Management and Community Development Admission Requirements (Direct Entry Category 3)

- English 40S
- Applied Mathematics 40S or Pre-Calculus Mathematics 40S
- A third 40S course

Please note that due to limited space students may require a higher average than stipulated. Any student applying for Direct Entry admission to this faculty will automatically be considered for admission to University 1, should they not be granted Direct Entry admission.

Regular Advanced Entry Admission (from U1 or another academic program)

The Advanced Entry admission requirements for all degrees include a minimum of 24 credit hours of successfully completed coursework to include the following required courses listed below. In order to complete the degree in the shortest time possible it is recommended that students take the required Year 1 courses before applying to the Faculty. Entering students who have not completed all of the required Year 1 courses must complete them during their program. Academic course work completed from other recognized post-secondary institutions will be considered once evaluated for equivalency.

Kinesiology/Kinesiology-Athletic Therapy/Physical Education Admission Requirements (Advanced Entry)

- BIOL 1410 Anatomy of the Human Body *and*
- BIOL 1412 Physiology of the Human Body (minimum grade of C) *and*
- KPER 1500 Foundations of Physical Education and Kinesiology (minimum grade of C) *and*
- 15 additional credit hours

Recreation Management and Community Development Admission Requirements (Advanced Entry)

- KPER 1400 Concepts of Recreation and Leisure (minimum grade C) *and*
- 21 additional credit hours

Minimum GPA for admission consideration is 2.0 but admission is competitive.

The Faculty of Kinesiology and Recreation Management strives for a student body within its degree programs that is representative of the rich diversity of peoples within the province and to enrich the overall teaching and learning climate. Our Indigenous Achievement and other University of Manitoba priorities are realized through an Individual Consideration admissions category for applicants who identify as the following underrepresented group: Canada Indigenous/Aboriginal Peoples, Racialized Minorities, Mature Students, ACCESS Program Students, Persons with Disabilities, and those with exceptional circumstances. Students applying under Individual Consideration must have successfully completed at least one year of study (min 24 credit hours) and a minimum AGPA of 2.0.

2.1 Transfer and Second Degree Students

Students admitted to the Faculty of Kinesiology and Recreation Management following the completion of another recognized university

degree or coursework may transfer in credit that is deemed equivalent toward the course requirements of a Kinesiology and Recreation Management undergraduate degree. Students are eligible to transfer a maximum of 50 credit hours to the Bachelor of Physical Education degree and a maximum of 60 credit hours to the Bachelor of Kinesiology and Bachelor of Recreation Management and Community Development programs.

Students who hold a degree and have completed further courses at the University of Manitoba which are applicable to their second degree in the Faculty of Kinesiology and Recreation Management but which were not used for credit toward their first degree may receive additional transfer credit for that work.

Equivalent courses completed at other universities or post-secondary institutions will be considered for admission and transfer credit only if the courses have been taken within the last 10 years.

Students are encouraged to contact an [Academic Advisor](#) in the Faculty General Office for information on how to optimize their transfer credit. Course transfer equivalencies will not be processed until after an application and all necessary documents have been submitted.

2.2 Visiting Students

Students who are enrolled and pursuing a degree at another institution may apply to be a visiting student with the Faculty of Kinesiology and Recreation Management. A Letter of Permission from the home institution granting permission to register for courses from the University of Manitoba is required in order for access to be granted to those courses.

SECTION 3: Faculty Academic Regulations

All students are asked to note that some academic policies and regulations may be subject to change. Please check the Web Calendar at umanitoba.ca for updated information.

The provisions of the following chapters from the Undergraduate Calendar (University Policies, and General Academic Regulations and Requirements) apply to all students. In addition, the Faculty of Kinesiology and Recreation Management has regulations and requirements, published below, that apply specifically to its students.

The Faculty of Kinesiology and Recreation Management strictly adheres to the University of Manitoba Student Discipline By-Law and will enforce these regulations. It is the responsibility of the student to know what constitutes academic dishonesty. Plagiarism or any other form of cheating is subject to academic penalty, which could be as serious as suspension or expulsion from the Faculty or university. Students are encouraged to avoid academic misconduct by learning more about the University of Manitoba regulations at:

http://umanitoba.ca/student/resource/student_advocacy/index.html

3.1 Policy on Minimum Grade in Faculty Required Courses

A minimum grade of "C" is required to pass all faculty required courses within the degree program. Students are permitted to repeat a failed faculty required course and are strongly encouraged to meet with an academic advisor to discuss an academic progression plan.

3.2 Scholastic Standards: Academic Assessment

Scholastic Standards:

Formal academic assessments are performed following each term for all Faculty of Kinesiology and Recreation Management students who have completed 3 or more credit hours. As a result of this assessment students will be determined to be minimum met, satisfactory, on probation,

suspension warning, or academic suspension for one year. All academic assessments will appear on the student's official transcript.

Minimum Met

Students must achieve a minimum DGPA of 2.0 at each point of assessment in order to have met the minimum requirements of the Faculty of Kinesiology and Recreation Management. Students who do not achieve a minimum DGPA of 2.0 will be placed on probation.

Probation

Once placed on probation, a student will be placed on hold and must meet with an academic advisor to review performance and to receive an override in order to register for another term. Students on probation who achieve a minimum term GPA of 2.0 will be assessed as satisfactory. Students who do not achieve a minimum term GPA of 2.0 will be placed on suspension warning.

Satisfactory

The assessment of satisfactory is used once a student has been placed on probation but has subsequently achieved a minimum term GPA of 2.0. Students with satisfactory standing will be able to register without restrictions. Students who do not maintain a minimum term GPA of 2.0 will be placed on suspension warning.

Suspension Warning

Once placed on suspension warning, a student must meet with an academic advisor before registering for another term. Students on suspension warning who achieve a minimum term GPA of 2.0 will be assessed as satisfactory. Students who do not achieve a minimum term GPA of 2.0 will be placed on academic suspension.

Academic Suspension

A student placed on academic suspension in the Faculty of Kinesiology and Recreation Management is not permitted to register for a period of one calendar year. The notation "Academic Suspension for 1 Year" will be recorded on the student's transcript.

Once a student has served a one year suspension, they must contact an academic advisor in order to be reinstated for future registration.

3.3 Dean's Honour List

Students enrolled in 12 credit hours or more who achieve a Term GPA of 3.50 or higher will be placed on the Dean's Honour List. The Dean's Honour List will be calculated after each term (i.e. Fall, Winter, and Summer).

The Dean's Honour List designation will appear on the student's transcript.

3.4 University Gold Medal and Program Medals

Gold Medal

The Faculty of Kinesiology and Recreation Management will award the University Gold Medal to the graduating student who:

- 1) has achieved the highest grade point average of all graduating students (minimum 3.75) on courses constituting the last two years of an eligible program (and including transfer courses in the applicable years); and,
- 2) has completed at least 80 percent of what is considered to be the normal full course-load in each of the last two years of the eligible program.

Program Medals

There are two program medals awarded each year in the Faculty of Kinesiology and Recreation Management to the two students with the highest standing (according to the University Gold Medal criteria) in the

programs in which the winner of the University Gold Medal in Kinesiology and Recreation Management is not registered (the three programs are Kinesiology, Physical Education, and Recreation Management and Community Development).

3.5 Degree With Distinction

Awarded to students who graduate with a cumulative Degree GPA of 3.8 or higher. The notation of "Degree with Distinction" will appear on the student's parchment and transcript.

3.6 Attendance and Withdrawal

Students absent from class for three or more days due to illness are required to present a certificate from a physician. Unexcused absence of more than three hours of class time in a theory course or experiential learning course may result in the student being required to withdraw from the course or may result in an "F" grade being assigned.

3.7 Leave of Absence

Students who have not registered for a full academic session will need to reactivate their status by contacting the Faculty General Office and must consult with an Academic Advisor. Students who have been absent from study for more than 5 years or have attended another institution since their last registration (not on a Letter of Permission) will have to re-apply for admission to the university.

3.8 Time Limit for Completion of the Degree

Students admitted to the Bachelor of Kinesiology, Bachelor of Physical Education, or Bachelor of Recreation Management and Community Development degree programs must complete all requirements to graduate within ten years of admission to the program. Students with questions relating to the time limit regulation should consult the Undergraduate Program Administrator.

3.9 Student Academic Appeals

Students who wish to appeal matters concerning their academic status should contact the Faculty of Kinesiology and Recreation Management Associate Dean (Undergraduate Studies). The Faculty has an academic appeals process for students who wish to appeal a policy or decision affecting their program of study.

SECTION 4: Program and Graduation Requirements

Degree Requirements and Course Selection

It is the student's responsibility to have read the *Undergraduate Academic Calendar* carefully, and to know all relevant university and faculty regulations, policies and practices. Completion of degree requirements is the responsibility of the student. Returning students should contact their advisor if they have any questions concerning their curriculum.

The four degree programs have a base of shared core courses. Shared core courses are intended to ensure students recognize the interconnections across our Faculty and its related fields of practice, and to facilitate the professional education of students.

In Fall 2017 the Faculty of Kinesiology and Recreation Management introduced an updated curriculum. In Fall 2018 and later, all students admitted through Year 1 Direct Entry and Year 2 Advanced Entry admission will follow the updated curriculum program requirements for each undergraduate degree program.

4.1 Program Requirements: Bachelor of Kinesiology

(Students admitted Direct Entry in September 2017 or later)

Program and Graduation Requirements: Bachelor of Kinesiology

To graduate with a four-year Bachelor of Kinesiology degree, a student must have passed the 120 credit hours of the program outlined below and must have achieved a Degree Grade Point Average (DGPA) of 2.00 with a minimum grade of "C" in all Faculty-required courses.

A maximum of 158 credit hours may be attempted in order to obtain the 120 credit hours required for graduation with the Bachelor of Kinesiology degree.

| YEAR 1: 30 Credit Hours | | |
|-------------------------|--|--------------|
| Course Number | Course Name | Credit Hours |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| KPER 1500 | Foundations of Physical Education and Kinesiology | 3 |
| PSYC 1200 | Introduction to Psychology | 6 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| | Faculty of Science Courses from List A* | 6 |
| | Elective | 3 |
| YEAR 2: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 2120 | Academic Skills in Kinesiology and Recreation Management | 3 |
| KPER 2170 | History of Physical Activity and Leisure | 3 |
| KPER 2200 | Planning Principles | 3 |
| KPER 2320 | Human Anatomy | 3 |
| KPER 2330 | Biomechanics | 3 |
| KPER 2350 | Introduction to Research | 3 |
| KPER 2540 | Psychology of Sport and physical Activity | 3 |
| KPER 2700 | Motor Control and Learning | 3 |
| | Electives | 6 |
| YEAR 3: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 3100 | Inclusive Physical Activity and Leisure | 3 |
| KPER 3460 | Sociology of Physical Activity of Leisure | 3 |

| | | |
|---|--|---------------------|
| KPER 3470 | Exercise Physiology | 3 |
| KPER 3510 | Physical Activity and Aging | 3 |
| KPER 3512 | Principles of Fitness Training | 3 |
| | Faculty Electives | 6 |
| | Electives | 9 |
| YEAR 4: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 4020 | Philosophy of Physical Activity and Leisure | 3 |
| KPER 4100 | Current Issues | 3 |
| | Advanced Faculty Electives (KIN or KPER at the 3000 or 4000-level) | 12 |
| | Faculty Elective | 3 |
| | Electives | 9 |
| Degree Exit Requirement: Current CPR Level C and Emergency or Standard First Aid Certification | | |

***List A: List of Faculty of Science Electives**

- ASTR 1810 Introduction to Astronomy: The Magnificent Universe (3)
- ASTR 1830 Life in the Universe (3)
- BIOL 1020 Biology 1: Principles and Themes (3)
- BIOL 1030 Biology 2: Biological Diversity and Interactions (3)
- CHEM 1300 University 1 Chemistry: Structure and Modelling in Chemistry (3)
- CHEM 1310 University 1 Chemistry: An Introduction to Physical Chemistry (3)
- CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry (3)
- COMP 1010 Introductory Computer Science (or equivalent) (3)
- COMP 1020 Introductory Computer Science 2 (3)
- MATH 1240 Elementary Discrete Mathematics (or equivalent) (3)
- MATH 1300 Vector Geometry and Linear Algebra (or equivalent) (3)
- MATH 1500 Introduction to Calculus (or equivalent) (3)
- MATH 1700 Calculus 2 (or equivalent) (3)
- MBIO 1010 Microbiology 1 (3)
- PHYS 1020 General Physics 1 (or equivalent) (3)
- PHYS 1030 General Physics 2 (or equivalent) (3)
- STAT 2000 Basic Statistical Analysis 2 (or equivalent) (3)

4.2 Program Requirements: Bachelor of Kinesiology - Athletic Therapy

(Students admitted Year 2 Advanced Entry in September 2018 or later)

Program and Graduation Requirements: Bachelor of Kinesiology - Athletic Therapy

To graduate with a four-year Bachelor of Kinesiology – Athletic Therapy degree, a student must have passed the 120 credit hours of the program outlined below and must have achieved a Degree Grade Point Average (DGPA) of 2.00 with a minimum grade of “C” in all Faculty-required courses.

A maximum of 158 credit hours may be attempted in order to obtain the 120 credit hours required for graduation with the Bachelor of Kinesiology - Athletic Therapy.

Students are expected to progress through the Athletic Therapy program as outlined below. It is strongly recommended that courses be completed in the sequence and year indicated, otherwise an additional year may be re-quired.

Valid Basic Life Support Provider CPR and Standard First Aid certification are required before the beginning of each term of registration (if lapsed, students must re-certify). Each year while in the program, Athletic Therapy students must also register as members with both the Manitoba Athletic Therapists Association (MATA) and Canadian Athletic Therapists Association (CATA).

Athletic Therapy Practica (KIN 3912, KIN 3914 & KIN 4910)

Students in the Athletic Therapy Program will be required to complete several hours of clinical and field (sports team) experiences on campus and in the community during their degree. These experiences provide opportunities to apply the knowledge and skills students obtain via their educational curriculum, in a practical hands-on manner, and therefore enhance their preparation for the Canadian Athletic Therapy Association (CATA) examinations. Students must successfully complete the previous year's courses and be registered in all of the present year's courses in order to register in each practicum (KIN 3912, KIN 3914 & KIN 4910).

| YEAR 1: 30 Credit Hours | | |
|--------------------------------|--|---------------------|
| Course Number | Course Name | Credit Hours |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| HNSC 1210 | Nutrition for Health and Changing Lifestyles | 3 |
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| KPER 1500 | Foundations of Physical Education and Kinesiology | 3 |
| PSYC 1200 | Introduction to Psychology | 6 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| | Faculty of Science Courses from List A* | 6 |
| YEAR 2: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KIN 2200 | Basic Trauma and Life Support | 3 |
| KIN 2750 | Athletic Therapy Skills | 3 |
| KIN 3320 | Advanced Human Anatomy | 3 |
| KPER 2120 | Academic Skills in Kinesiology and Recreation Management | 3 |
| KPER 2170 | History of Physical Activity and Leisure | 3 |
| KPER 2200 | Planning Principles | 3 |
| KPER 2320 | Human Anatomy | 3 |
| KPER 2330 | Biomechanics | 3 |

| | | |
|---|---|---------------------|
| KPER 2350 | Introduction to Research | 3 |
| KPER 2700 | Motor Control and Learning | 3 |
| YEAR 3: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KIN 3160 | Pathology and Sport Medicine | 3 |
| KIN 3330 | Functional Assessment and Restoration A | 3 |
| KIN 3332 | Functional Assessment and Restoration B | 3 |
| KIN 3400 | Therapeutic Modalities | 3 |
| KIN 3912 | Athletic Therapy Practicum | 4 |
| KIN 3914 | Clinical Block Placement | 2 |
| KPER 3100 | Inclusive Physical Activity and Leisure | 3 |
| KPER 3460 | Sociology of Physical Activity of Leisure | 3 |
| KPER 3470 | Exercise Physiology | 3 |
| KPER 3512 | Principles of Fitness Training | 3 |
| YEAR 4: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KIN 2540 | Psychology of Sport and Physical Activity | 3 |
| KIN 3510 | Physical Activity and Aging | 3 |
| KIN 4160 | Advanced Pathology and Sport Medicine | 3 |
| KIN 4330 | Advanced Biomechanics | 3 |
| KIN 4400 | Therapeutic Exercise Rehabilitation | 3 |
| KIN 4910 | Athletic Therapy Practicum | 6 |
| KPER 4020 | Philosophy of Physical Activity and Leisure | 3 |
| KPER 4100 | Current Issues | 3 |
| | Electives | 3 |
| Degree Exit Requirement: Current Basic Life Support Provider and Emergency or Standard First Aid Certification | | |

***List A: List of Faculty of Science Electives**

- ASTR 1810 Introduction to Astronomy: The Magnificent Universe (3)
- ASTR 1830 Life in the Universe (3)
- BIOL 1020 Biology1: Principles and Themes (3)
- BIOL 1030 Biology 2: Biological Diversity and Interactions (3)
- CHEM 1300 University 1 Chemistry: Structure and Modelling in Chemistry (3)
- CHEM 1310 University 1 Chemistry: An Introduction to Physical

- Chemistry (3)
- CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry (3)
- COMP 1010 Introductory Computer Science (or equivalent) (3)
- COMP 1020 Introductory Computer Science 2 (3)
- MATH 1240 Elementary Discrete Mathematics (or equivalent) (3)
- MATH 1300 Vector Geometry and Linear Algebra (or equivalent) (3)
- MATH 1500 Introduction to Calculus (or equivalent) (3)
- MATH 1700 Calculus 2 (or equivalent) (3)
- MBIO 1010 Microbiology 1 (3)
- PHYS 1020 General Physics 1 (or equivalent) (3)
- PHYS 1030 General Physics 2 (or equivalent) (3)
- STAT 2000 Basic Statistical Analysis 2 (or equivalent) (3)

4.3 Program Requirements: Bachelor of Physical Education

(Students admitted Year 1 Direct Entry in September 2017 or later)

Program and Graduation Requirements: Bachelor of Physical Education

To graduate with a three-year Bachelor of Physical Education degree, a student must have passed the 102 credit hours of the program outlined below and must have achieved a Degree Grade Point Average (DGPA) of 2.00 with a minimum grade of "C" in all Faculty-required courses.

A maximum of 132 credit hours may be attempted in order to obtain the 102 credit hours required for graduation with the Bachelor of Physical Education degree.

| YEAR 1: 30 Credit Hours | | |
|--------------------------------|--|----------------------|
| Course Number | Course Name | Credit Hours. |
| BIOL 1410 | Anatomy of the Human Body | 3 |
| BIOL 1412 | Physiology of the Human Body | 3 |
| ENGL 1XXX | English (1200, 1300, or equivalent) | 6 |
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| KPER 1500 | Foundations of Physical Education and Kinesiology | 3 |
| M Requirement | MATH or STAT Course | 3 |
| | Electives / Teaching Minor | 9 |
| YEAR 2: 36 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 2120 | Academic Skills in Kinesiology and Recreation Management | 3 |
| KPER 2170 | History of Physical Activity and Leisure | 3 |
| KPER 2200 | Planning Principles | 3 |
| KPER 2320 | Human Anatomy | 3 |
| KPER 2330 | Biomechanics | 3 |
| KPER 2540 | Psychology of Sport and Physical Activity | 3 |
| KPER 2700 | Motor Control and Learning | 3 |
| PHED 2442 | Health Education | 3 |

| PHED 2710 | Human Movement Principles | 3 |
|--|--|--------------|
| PHED 2742 | Group Fitness and Leadership | 3 |
| | Electives / Teaching Minor | 6 |
| YEAR 3: 36 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 3100 | Inclusive Physical Activity and Leisure | 3 |
| KPER 3460 | Sociology of Physical Activity and Leisure | 3 |
| KPER 3470 | Exercise Physiology | 3 |
| KPER 3512 | Principles of Fitness Training | 3 |
| KPER 3550 | Growth and Motor Development | 3 |
| PHED 3122 | Developmental Games and Activities | 3 |
| PHED 3362 | Culturally Relevant Pedagogies | 3 |
| PHED 3722 | Coaching Theory and Practice | 3 |
| PHED 3732 | Dance and Rhythmic Activities | 3 |
| | Electives / Teaching Minor | 9 |
| Degree Exit Requirement: Current CPR Level C and Emergency or Standard First Aid Certification. | | |

***Note:** Students who intend to apply for admission to the Faculty of Education after completing their BPE degree should review the information in the current Undergraduate Academic Calendar and consult with the Faculty of Education to ensure they are selecting an appropriate teachable minor and courses for their choice of the Early, Middle or Senior Years stream.

4.4 Program Requirements: Bachelor of Recreation Management and Community Development

(Students admitted Year 1 Direct Entry in September 2017 or later)

Program and Graduation Requirements: Bachelor of Recreation Management and Community Development

To graduate with a four-year Bachelor of Recreation Management and Community Development degree, a student must have passed the 120 credit hours of the program outlined below and must have achieved a Degree Grade Point Average (DGPA) of 2.00 with a minimum grade of “C” in all faculty-required courses. A maximum of 158 credit hours may be attempted in order to obtain the 120 credit hours required for graduation with the Bachelor of Recreation Management and Community Development degree.

| YEAR 1: 30 Credit Hours | | |
|--------------------------------|--|--------------|
| Course Number | Course Name | Credit Hours |
| KPER 1200 | Physical Activity, Health and Wellness | 3 |
| KPER 1400 | Concepts of Recreation and Leisure | 3 |
| PSYC 1200 | Introduction to Psychology | 6 |
| SOC 1200 | Introduction to Sociology | 6 |
| STAT 1000 | Basic Statistical Analysis 1 | 3 |
| | Electives | 9 |

| YEAR 2: 30 Credit Hours | | |
|--------------------------------|--|--------------|
| Course Number | Course Name | Credit Hours |
| KPER 2120 | Academic Skills in Kinesiology and Recreation Management | 3 |
| KPER 2170 | History of Physical Activity and Leisure | 3 |
| KPER 2200 | Planning Principles | 3 |
| KPER 2350 | Introduction to Research | 3 |
| REC 2400 | Management and Marketing of Leisure Services | 3 |
| | <i>Choose 3 of the following 5:</i> | 9 |
| REC 2100 | Introduction to Leisure Travel (3) | |
| REC 2130 | Introduction to Outdoor and Land-Based Recreation (3) | |
| REC 2150 | Introduction to Sport Management (3) | |
| REC 2170 | Introduction to Therapeutic Recreation (3) | |
| REC 2650 | Social Aspects of Aging (3) | |
| | Electives | 6 |
| YEAR 3: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 3100 | Inclusive Physical Activity and Leisure | 3 |
| KPER 3460 | Sociology of Physical Activity of Leisure | 3 |
| REC 3072 | Principles of Community Development | 3 |
| REC 3180 | Social Psychology of Leisure | 3 |
| REC 3220 | Program Planning and Evaluation | 3 |
| REC 3630 | Service and Experiential Learning | 3 |
| REC 3850 | Planning of Recreation Areas and Facilities | 3 |
| REC 3/4XXX | Advanced Recreation Elective* | 3 |
| | Electives | 6 |
| YEAR 4: 30 Credit Hours | | |
| Course Number | Course Name | Credit Hours |
| KPER 4020 | Philosophy of Physical Activity and Leisure | 3 |

| | | |
|---|--|----|
| KPER 4100 | Current Issues | 3 |
| Supervised Fieldwork Experience | KPER 4630 (12) <i>or</i> KPER 4631 (6) & KPER 4632 (6) | 12 |
| REC 3/4XXX | Advanced Recreation Elective* | 3 |
| | Electives | 6 |
| Degree Exit Requirement: Current CPR Level C and Emergency or Standard First Aid Certification | | |

***List of Approved Advanced Recreation Electives:**

- REC 3090 Sustainable Nature-Based Tourism (3)
- REC 3170 Sport and Development in Community (3)
- REC 3310 Cultural Tourism (3)
- REC 3770 Indigenous Perspectives on Land-Based Education (3)
- REC 4060 Person Centred Leisure Education (3)
- REC 4072 Advanced Marketing of Leisure Services (3)
- REC 4120 Recreational Travel and Tourism (3)
- REC 4250 Leisure and Aging (3)
- REC 4350 Parks and Protected Areas Planning and Management: Field Studies (6)
- REC 4400 The Administration of Special Events (3)
- REC 4720 Wilderness Adventures (3)
- REC 4770 Indigenous Recreation and Wellbeing (3)
- KPER 4000 Special Topics (3)
- KPER 4110 The Olympics and the Global Sporting Event (3)
- KPER 4310 Physical Activity Counselling (3)
- KPER 4320 Sport and the Body (3)
- KPER 4340 Sport, Film and Society (3)
- PHED 4710 Outdoor Education (3)

4.5 Program Requirements for Students Admitted Prior to 2018

Faculty of Kinesiology and Recreation Management Students admitted before September 2018 will notice changes to course and program requirements. Students admitted prior to 2018 should contact the Undergraduate Program Administrator or Academic Advisor at the Faculty General Office for information on their specific degree requirements and courses required for graduation. All degree program requirements can be found in the Undergraduate Calendar of the corresponding year of admission.

4.6 Minor in Recreation Studies (123)

The Recreation Studies Minor consists of 18 hours of credit in the following courses offered by the Faculty of Kinesiology and Recreation Management. To qualify for and declare the Minor in Recreation Studies, students must achieve a grade of "C" or better in KPER 1400. A student must obtain department approval (when necessary) and declare the minor with their home faculty for access into advanced REC courses.

Required Core Courses for the Minor in Recreation Studies (6 credit hours):

- KPER 1400 Concepts of Recreation and Leisure (3 credit hours)
- REC 2400 Management and Marketing of Leisure Services (3 credit hours)

Two Required Elective Courses for the Minor in Recreation Studies (Choose 6 credit hours from the following):

- REC 2100 Introduction to Leisure Travel (3 credit hours)
- REC 2130 Introduction to Outdoor and Land-Based Recreation (3 credit hours)
- REC 2150 Introduction to Therapeutic Recreation (3 credit hours)

- REC 2170 Introduction to Sport Management (3 credit hours)
- REC 2650 Social Aspects of Aging (3 credit hours)

Two Advanced Electives (Choose 6 credit hours from the following):

- REC 3090 Sustainable Nature-Based Tourism (3 credit hours)
- REC 3170 Sport Development in Community (3 credit hours)
- REC 3310 Cultural Tourism (3 credit hours)
- REC 3770 Indigenous Perspectives on Land-Based Education (3 credit hours)
- REC 4060 Person Centred Leisure Education (3 credit hours)
- REC 4072 Advanced Marketing of Leisure Services (3 credit hours)
- REC 4120 Recreational Travel and Tourism (3 credit hours)
- REC 4250 Leisure and Aging (3 credit hours)
- REC 4350 Parks and Protected Areas Planning and Management (6 credit hours) (Summer Session Travel Study – Instructor Permission Re-quired)
- REC 4400 The Administration of Special Events (3 credit hours)
- REC 4720 Wilderness Adventures (3 credit hours)
- REC 4770 Indigenous Recreation and Wellbeing (3 credit hours)
- KPER 4000 Special Topics (3 credit hours)
- KPER 4110 The Olympics and the Global Sporting Event (3 credit hours)
- KPER 4320 Sport and the Body (3 credit hours)
- KPER 4340 Sport, Film and Society (3 credit hours)

4.7 Interfaculty Option in Aging

The Option in Aging is offered by and in the following faculties: Arts, Nursing, *Kinesiology and Recreation Management*, and Social Work.

Students in the Faculty of Kinesiology and Recreation Management can elect to complete the Option in Aging which consists of 18 credit hours of aging-related coursework. All KRM Option in Aging students MUST complete the following two courses (6 credit hours):

- KIN 2610/ NURS 2610 Health and Physical Aspects of Aging (alternates between faculties)
- REC 2650/HMEC 2650/SWRK 2650 Social Aspects of Aging (alternates between faculties)

PLUS ONE OF (3 credit hours):

- REC 4250 Leisure and Aging (BRMCD students; not offered every year)
- KIN 4500 Physical Activity and Aging (BKin students)

AND ELECTIVES* (9 credit hours):

- Approved age related courses from Kinesiology and Recreation Management or other faculties. A current list of applicable courses is available at the Faculty General Office.

In order to declare the Option in Aging, students must meet with an Academic Advisor once they have successfully completed the two compulsory courses of KIN 2610/ NURS 2610 and REC 2650/HMEC 2650/SWRK 2650.

Upon graduation, a student who has met all the requirements will have the concentration added to their transcript indicating they have completed the Option in Aging.

4.8 Supervised Fieldwork Experience (PERS 4630, KPER 4630, KPER 4632 and KPER 4634)

The supervised fieldwork experience is a professionally supervised experience that provides the student with the opportunity to apply

knowledge gained in academic courses, and gives exposure to a workplace environment in a related field.

Students in the BKin and BRMCD programs are eligible to register for the 12 credit hour course provided they will complete 90 credit hours toward the degree and achieve a minimum Degree Grade Point Average of 2.5 or higher at the end of the third year of their degree. Student placements are scheduled for 13 weeks (working full-time) during the Fall Term (September through December). Information on the application process, deadlines and course details are available on the Faculty website and at the Faculty General Office.

4.9 External Minors

Kinesiology and Recreation Management students may choose and declare an external minor offered by the Faculty of Arts, Clayton H. Riddell Faculty of Environment, Earth, and Resources, Faculty of Human Ecology, Faculty of Science, Faculty of Management, Marcel A. Desautels Faculty of Music, or School of Art. Completion of a declared minor is optional and may be achieved through the use of electives in a program. See the applicable faculty and department chapters for the requirements of each minor. Minors must be declared with an Academic Advisor at the Faculty General Office in order to be approved and appear on a student's transcript.

In order to declare the Management Minor from the I. H. Asper School of Business, Faculty of Kinesiology and Recreation Management students must achieve a 3.0 DGPA (or higher). If a student has successfully completed 18 credit hours of course work from the Faculty of Management, and a 2.0 GPA in the Management course work by the time of graduation, the Minor in Management may also be declared upon completion of the degree program.

SECTION 5: Registration Information for All Students

Faculty Academic Advisors

If you require further information after reading the *Undergraduate Calendar*, contact the Kinesiology and Recreation Management academic advisors, 8:30 a.m. - 4:30 p.m. Monday - Friday.

Patti Dickieson, Academic Advisor

103B Frank Kennedy Centre

Telephone: (204) 474 9748

Chelsey Prokesch, Advising/Office Assistant

102 Frank Kennedy Centre

Telephone: (204) 474 9747

5.1 Faculty Orientation Sessions

All new students admitted to the Faculty must attend an Orientation session in order to be unblocked from registration. Dates will be provided with the letter of acceptance (normally in early July before registration initial access) and on the Faculty website.

At this session students will receive important information regarding their program, registration, and an orientation manual. Upon acceptance into the Faculty, students from outside of the province will be sent an orientation manual and should contact an Academic Advisor to discuss registration and other matters prior to registration initial access.

5.2 Course Sequencing and Prerequisites

Planning the sequence of required courses is essential. Several Faculty courses in all degrees require successful completion of another course in

order to register. Some courses may only be offered once per year. Please check current catalogue course descriptions and class schedules in your program to ensure that you achieve what is necessary for efficient course enrolment in future terms.

5.3 Experiential Learning Courses (ELCs)

Experiential learning courses (ELCs) provide three credit hours of integrated theory and practice, and include applied activities that are designed to translate theoretical components to hands-on-learning in the gymnasium, dance studio, fitness studio, playing field, outdoor environment or clinic. Students should refer to the course attendance policy in Section 3.6. Below is a list of Faculty of Kinesiology and Recreation Management experiential learning courses:

- KIN 2750 Athletic Therapy Skills
- KIN 3740 Resistance Training and Conditioning
- PHED 2400 Coaching Theory and Practice
- PHED 2402 Advanced Coaching Theory and Practice
- PHED 2710 Human Movement Principles
- PHED 2720 Developmental Games and Activities
- PHED 2730 Gymnastics, Dance and Rhythmic Activities
- PHED 2742 Group Fitness and Leadership
- PHED 3102 Indigenous Song and Dance
- PHED 3710 Active Health and Human Potential
- PHED 3750 Lifestyle Activities
- PHED 3760 Diverse Populations Mentorship
- PHED 3770 Indigenous Games and Activities
- PHED 4710 Outdoor Education
- REC 4720 Wilderness Adventures

5.4 Courses Requiring an Active Facility Use Pass

In some courses students will be required to activate the student facility use pass in order to gain access into and utilize various learning environments. Students should be prepared to have their pass active within the first week of class in the applicable term. Students report to the Recreation Services Customer Service Desk in Active Living Centre.

5.5 Course Field Work Fees

The following courses will be assessed Field Work Fees upon registration. Fees are viewable in the Aurora Student Class Schedule under Detailed Class Information for each course listed:

- KIN 3320 Advanced Anatomy
- KPER 1500 Foundations of Physical Education and Kinesiology
- PHED 2710 Human Movement Principles
- PHED 2742 Group Fitness and Leadership
- PHED 3102 Indigenous Song and Dance
- PHED 3710 Active Health and Human Potential
- PHED 3750 Lifestyle Activities
- PHED 4710 Outdoor Education
- REC 3090 Sustainable Nature-Based Tourism
- REC 4720 Wilderness Adventures

5.6 Courses Available to Students in Other Faculties and Schools

Students from other faculties who wish to register for courses with registration restrictions may seek departmental permission by obtaining a form from the Faculty General Office (102 Frank Kennedy Centre) at the end of the initial registration access period of the applicable session.

Students who have declared the Recreation Studies Minor may register for additional Recreation Studies courses with the help of their academic advisor in their faculty – refer to requirements in Section 4.6.

SECTION 6: Sport, Physical Activity and Recreation in the Community Certificate (SPARC)

The Sport, Physical Activity and Recreation in the Community (SPARC) certificate program provides in-depth meaningful and relevant non-credit professional development (PD) programming along with introductory university courses related to physical activity, sport, recreation, fitness, health and wellness, all delivered with Indigenous perspectives, worldviews and teachings and adapted for delivery in the community.

The SPARC certificate program consists of 400 contact hours with combined non-credit professional development instruction and for UM credit introductory experiential learning courses. Courses for the cohorts may be delivered at either an Urban or Northern/Rural location.

Selection Process

Completed applications will be assessed in the order they are received. Applicants for the certificate program will be assessed on the following admissions criteria. Note that the selection process for northern/rural cohorts will be determined in consultation with the partner organization who is sponsoring the SPARC program.

6.1.1 Application and Admission Criteria – Recent Graduates

1. A minimum average of 63-69.9% over three Grade 12 S or U credits
2. One credit of Grade 12 S or U English with a minimum grade of 60%
3. Must be a Canadian citizen or Permanent Resident

6.1.2 Application and Admission Criteria – Mature Applicants (over 21 years of age)

1. Must be 21 years of age or older by September 30 for classes starting in September, January 31 for classes starting in January, May 1 for classes starting in May, and July 1 for classes starting in July.
2. Must have limited experience at college or university (fewer than 24 credit hours).
3. May or may not meet the regular academic requirements of the program.
4. Must be a Canadian citizen or Permanent Resident

Information on the next cohort intake and admission date, entrance requirements and descriptions of the student categories may available by contacting the Faculty of Kinesiology and Recreation Management General Office.

PHED 0100 Safety in the Community

A blend of professional safety, health and wellness certifications, including but not limited to CPR/First Aid; Applied Suicide Intervention Skills training (ASIST); Indigenous Mental Health First Aid; Hunting Safety; Water Safety; Aboriginal Sport Coaching Certificate; Food Handling Certificate. Evaluated Pass/Fail.

PHED 0150 Activity and Program Planning

An introduction to equity-based program planning principles and strategies. Adult education and Indigenous education theories and models will address the complexity and challenges of planning for public well-being. In the course, students will learn to plan, develop, implement and evaluate community-driven physical activity, recreation and sport programs for marginalized populations, with a specific focus on Indigenous and racialized minority groups.

PHED 0200 Living Mino-Pimatisiwin

An introduction to Indigenous-informed, culturally relevant approaches to health and wellness set within a sport, physical activity and recreational context. Elders, Knowledge Keepers and Cultural Teachers will share their perspectives (e.g., knowledge, skills and values) related to “*living Mino-Pimatisiwin*” – the good life, including a deeper understanding of Medicine Wheel teachings of wholism, interdependence, sharing and respect as experienced through Indigenous cultural perspectives and service learning in a communal mentorship or equivalent physical activity program. Evaluation Pass/Fail.

- PHED 3770 Indigenous Games and Activities
- REC 3770 Indigenous Perspectives on Land-Based Education

FKRM Elective (listed below)

- KPER 1200 Physical Activity, Health and Wellness
- KPER 2200 Planning Principles
- PHED 2710 Human Movement Principles
- PHED 2742 Group Fitness and Leadership
- PHED 3122 Developmental Games and Activities
- PHED 3722 Coaching Theory and Practice
- PHED 3760 Diverse Populations Mentorship
- REC 2130 Introduction to Outdoor and Land-Based Education
- REC 4770 Indigenous Recreation and Well-being

*Note: Undergraduate course descriptions available in SECTION 7

Students seeking the credential must pass all three non-credit PD courses and achieve a minimum Grade Point Average of 2.0 for the three KRM university courses to graduate with the SPARC Certificate. Students may repeat a course in order to achieve the minimum requirements for the certificate.

This program normally takes a minimum of 12 months to complete. Students will have up to 4 years from the initial start date (first term of enrolment) to complete the program. Note: Northern/rural cohorts may have a more condensed delivery format (e.g., 6 months), depending on resources and needs of the community.

SECTION 7: Kinesiology, Phys Ed & Recreation Course Descriptions (KPER) 1000 Level

KPER 1200 Physical Activity, Health and Wellness Cr. Hrs 3

An examination of the importance of physical activity for health and wellness. Provides an overview of the present and recommended levels of physical activity, the factors influencing participation in physical activity, Indigenous peoples' approaches to health, the role of recreation in health and wellness, and individual, organizational and national interventions for increasing physical activity. May not be held with the former PHED 1200 or the former PERS 1200.

KPER 1400 Concepts of Recreation and Leisure Cr. Hrs. 3

The nature and scope of recreation and leisure, the past influences and implications for the future. An overview of the types and roles of various components of the leisure service delivery system. May not be held with the former PERS 1400 or the former REC 1400.

KPER 1500 Foundations of Physical Education and Kinesiology Cr. Hrs. 3

An introduction to physical education and kinesiology as a profession and a discipline, including an overview of sub-disciplines, resources, and careers; a personal physical assessment; and principles for achieving physical fitness. This course includes a field trip component. May not be held with the former PERS 1500 or the former PHED 1500.

SECTION 7: Kinesiology, Phys Ed & Recreation Course Descriptions (KPER) 2000 Level

KPER 2000 Special Topics (Introductory) Cr. Hrs. 3

An introductory examination of selected topics in the fields of kinesiology, physical education and recreation. Topics will vary depending on faculty expertise and student need. This course can be completed as a topics course multiple times under different titles.

KPER 2120 Academic Skills in Kinesiology and Recreation Management Cr. Hrs. 3

This course provides interdisciplinary and multidisciplinary academic preparation and communication skills for students pursuing undergraduate degrees from the Faculty of Kinesiology and Recreation Management. Prerequisites: KPER 1400 (or the former PERS 1400 or the former REC 1400) or KPER 1500 (or the former PERS 1500 or the former PHED 1500).

KPER 2170 History of Physical Activity and Leisure Cr. Hrs. 3

This course examines the post-Confederation history of Canadian sport, physical education, physical fitness and recreation, as well as the growth of public programs. Using the concepts of social class, gender, race, and ethnicity, the focus is on the ways in which Canadian physical activity, recreation, and sport have been organized since Confederation and the processes by which people have fashioned them, within the dynamic of economic, social, and political struggles and changes. May not be held with the former PERS 3170 or the former KIN 3170, or the former PHED 3170, or the former PHED 3070. Prerequisites: [KPER 1200 (C) (or the former PERS 1200, or the former PHED 1200)] and KPER 2120 (C).

KPER 2200 Planning Principles Cr. Hrs. 3

While contexts in practice may vary, planning is an essential competency for all professional in recreation, kinesiology, and physical education. This course emphasizes principles and processes in effective planning, implementation, and evaluation. May not be held with the former PERS 2200 or the former PHED 3080 or the former REC 2530. Prerequisites: [KPER 1200 (or the former PERS 1200 or the former PHED 1200)] or [KPER 1400 (or the former PERS 1400 or the former REC 1400)] or [KPER 1500 (or the former PERS 1500 or the former PHED 1500)].

KPER 2320 Human Anatomy Cr. Hrs. 3

(Lab required) Structure of the skeletal, articular, and muscular systems of the human body. May not be held with the former KIN 2320 or the former PHED 2320. Prerequisites: BIOL 1412 (C) or BIOL 1413 (C) or BIOL 2420 (C), or BIOL 2421 (C) or the former ZOO 1330 (C).

KPER 2330 Biomechanics Cr. Hrs. 3

(Lab required) The mechanical and anatomical analysis of human movement. May not be held with the former KIN 2330 or the former PHED 2330. Prerequisites: KPER 2320 (or the former KIN 2320 or the former PHED 2320).

KPER 2350 Introduction to Research Cr. Hrs. 3

(Lab required) Students will become familiar with the basic principles and methods of research in the humanities, biological, life and social sciences. Students will develop the conceptual foundations and practical skills needed to locate, understand, and evaluate primary research publications. May not hold with the former PERS 3350, the former KIN 3350, the former REC 3350 or the former REC 2010. Prerequisites: STAT 1000 (D) or STAT 1001 (D) or STAT 1150 (D).

KPER 2540 Psychology of Sport and Physical Activity Cr. Hrs. 3

This course provides students with an understanding of psychological variables affecting individuals within sporting and activity contexts. Topics to be explored include motivation, arousal/anxiety, group dynamics and youth involvement in sport. May not be held with the former KIN 2540 or the former PHED 2540.

KPER 2700 Motor Control and Learning Cr. Hrs. 3

(Lab required) Principles underlying human motor performance and motor skill learning. May not be held with the former KIN 3450 or the former PHED 3450.

SECTION 7: Kinesiology, Phys Ed & Recreation Course Descriptions (KPER) 3000 and 4000 Level

KPER 3100 Inclusive Physical Activity and Leisure Cr. Hrs. 3

This course introduces the foundations of inclusive physical activity and leisure and the application of this knowledge to individuals from diverse backgrounds and experiences with a focus on people with various forms of impairment. May not hold with the former PERS 3100, the former PHED 3390, or the former REC 3060. Prerequisite: KPER 2120.

KPER 3140 Health Promotion Cr. Hrs. 3

An introduction to health promotion with emphasis on the benefits of physical activity for health and wellness, factors influencing participation in physical activity, health promotion strategies, and interventions for increasing physical activity applied at the individual, organizational, and national levels. Prerequisites: [KPER 2200 (or the former PERS 2200)] and [KPER 2350 (or the former PERS 3350 or the former KIN 3350 or the former REC 3350 or the former REC 2010)].

KPER 3460 Sociology of Physical Activity and Leisure Cr. Hrs. 3

This course examines sociological factors that influence and shape participation in the areas of physical activity, sport and leisure. The exploration of students' own experiences in this field is emphasized, using an analytical model examining experiences as they arise out of the interplay of social structure and individual agency. May not be held with the former PERS 3460 or the former PHED 3460. Prerequisite: KPER 2120 (C).

KPER 3470 Exercise Physiology Cr. Hrs. 3

(Lab required) Physiological and functional responses to acute and chronic exercise, focusing on the cardiovascular, respiratory and neuromuscular systems. May not be held with the former KIN 3470, the former PHED 3470, or the former PHED 3430. Prerequisites: BIOL 1412 (C), (or the former ZOO 1330), or BIOL 1413 (C), or BIOL 2420 (D), (or the former ZOO 2540), or BIOL 2421 (D).

KPER 3512 Principles of Fitness Training Cr. Hrs. 3

(Lab required) Theoretical concepts of designing programs employing the principles of overload and adaptation are applied over the entire healthy population, from inactive sedentary individuals to elite athletes, for all age groups. May not be held with the former KIN 3512, the former KIN 3090, or the former PHED 3090. Prerequisite: KPER 3470 (C) (or the former KIN 3470, or the former PHED 3470, or the former PHED 3430).

KPER 3550 Growth and Motor Development Cr. Hrs. 3

Detailed study of physical growth and motor development from conception to adolescence, with implications for physical activity programs. May not be held with the former PHED 2550. Prerequisite: KPER 2700 (C) (or the former KIN 3450 or the former PHED 3450).

KPER 3630 Service and Experiential Learning Cr. Hrs. 3

This service-learning course combines cognitive learning and affective service to enhance student learning by connecting theory with practical experience and thinking with action. In a holistic learning environment, students apply service and experiential learning theories to community issues in physical activity and leisure while reflecting on their experiences and gaining deeper appreciation and skill development. Prerequisites: KPER 2200 (C) or PERS 2200.

KPER 4000 Special Topics Cr. Hrs. 3

A theoretical and practical examination of selected topics in the fields of recreation, leisure, physical education and kinesiology. Topics will vary depending on faculty expertise and student need. This course can be completed as a topics course multiple times under different titles. Prerequisites: [KPER 1200 (or the former PERS 1200 or the former PHED 1200)] or [KPER 1400 (or the former PERS 1400 or the former REC 1400)] or [KPER 1500 (or the former PERS 1500 or the former PHED 1500)] or department approval.

KPER 4020 Philosophy of Physical Activity and Leisure Cr. Hrs. 3

Issues in sport, physical education and recreation will be examined from a philosophical perspective. May not be held with the former PERS 3340, the former KIN 3340, the former REC 3340, or the former PHED 2340. Prerequisite: KPER 2120 (C).

KPER 4110 The Olympics and the Global Sporting Event Cr. Hrs. 3

Critical examination of the sporting and cultural significance of the modern Olympic Games and other global events, with emphasis given to the Olympic and Paralympic Games that occur in the year the course is offered. May not be held with the former PERS 4110. Prerequisites: KPER 3460 (C), (or the former PERS 3460 or the former PHED 3460).

KPER 4310 Physical Activity Counselling Cr. Hrs. 3

This course introduces students to physical activity counselling and the associated interpersonal and counselling skills as well as the relevant theories that underpin behaviour change and counselling techniques. Through case studies, readings, research, discussions, simulations, role plays and real counselling work, students will learn, reflect on and practice proven counselling skills to build motivation and facilitate behaviour change. May not be held with the former PERS 4310. Prerequisites: [KPER 2540 (C) (or the former KIN 2540 or the former PHED 2540)] or [REC 3180 (C)] or [PSYC 2660 (C) (or the former PSYC 3660)].

KPER 4320 Sport and the Body Cr. Hrs. 3

A critical analysis of current interdisciplinary topics pertaining to sport and the body. This course tackles difficult and controversial questions related to the active body. May not be held with the former PERS 4320. Prerequisites: KPER 3460 (C) (or the former PERS 3460 or the former PHED 3460) or permission of the instructor.

KPER 4340 Sport, Film and Society Cr. Hrs. 3

This seminar format course encourages students to use films as "texts" through which important socio-cultural themes related to the study of sport, recreation, physical activity, dance, and physical education can be explored. It builds upon themes explored in courses such as KPER 3460 and uses film as a way to examine the intersections between the representations of key historical and sociological concepts such as class, gender, and race/ethnicity and the representations of sport and the moving body. The course is organized around these themes and includes a variety of film genres, primarily feature films and documentaries. Each seminar includes one or more screening upon which class discussions are based. The course concludes with a screening of the films made by students themselves, a key component of the courses's evaluation. May not be held with the former PERS 4340. Prerequisites: KPER 3460 (C) (or the former PERS 3460 or the former PHED 3460) or permission of the instructor.

KPER 4600 Directed Study Cr. Hrs. 3

Completion of an independent study or fieldwork experience, including a major written submission, approved by the department and under the direction of a faculty member. This course can be completed as a topics course multiple times under different titles.

KPER 4630 Supervised Fieldwork Experience Cr. Hrs. 12

The fieldwork practicum is a professionally supervised field experience that provides an opportunity to apply knowledge gained in academic courses and exposure to new concepts of professional practice in the fields of physical activity, health and wellness or leisure. Students are placed for a 13-week period of full time work within a suitable agency. May not be held with the former PERS 4630, the former REC 33080, the former PHED 4620, or the former KIN/REC 4630. Prerequisites: Successful completion of 90 credit hours of course work in the BKin or BRMCD degree and a minimum DGPA of 2.5 and permission of instructor. Evaluated on a pass/fail basis.

KPER 4632 Supervised Fieldwork Experience A Cr. Hrs. 6

The fieldwork practicum is a professionally supervised field experience that provides an opportunity to apply knowledge gained in academic courses and exposure to new concepts of professional practice in the fields of physical activity, health and wellness or leisure. Students are placed in a professional environment with a mentor/direct supervisor. May not be held with the former PERS 4630 or the former KIN 4630 or the former REC 4630 or the former REC 3080 or the former PHED 4620. Prerequisites: Successful completion of 90 credit hours of course work in the BKin or BRMCD degrees and a minimum DGPA of 2.5 and permission of instructor. Evaluated on a pass/fail basis.

KPER 4634 Supervised Fieldwork Experience B Cr. Hrs. 6

The fieldwork practicum is a professionally supervised field experience that provides an opportunity to apply knowledge gained in academic courses and exposure to new concepts of professional practice in the fields of physical activity, health and wellness or leisure. Students are placed in a professional environment with a mentor/direct supervisor. May not be held with the former PERS 4630 or the former KIN 4630 or the former REC 4630 or the former REC 3080 or the former PHED 4620. Prerequisites: Successful completion of 90 credit hours of course work in the BKin or BRMCD degrees and a minimum DGPA of 2.5 and permission of instructor. Evaluated on a pass/fail basis.

KPER 4810 Senior Thesis Preparation Cr. Hrs. 3

An opportunity for continuing FCRM students in 4th year to participate in independent research. Under the supervision of a faculty member, each student will create and defend a research prospectus and literature review, and then develop a methodology to conduct a research study. Prerequisites: KPER 2120 (C) and (KPER 2320 (C) or the former PERS 3550 (C)) and a minimum DGPA of 3.0 and approval of instructor.

KPER 4820 Senior Thesis Research Project Cr. Hrs. 3

A 4th year research experience involving the delivery and dissemination of a research project under the supervision of a faculty member. Students will create, produce, and defend a written research document building on skills developed in KPER 4810. Prerequisites: KPER 4810 (C) and approval of instructor.

SECTION 7: Kinesiology Course Descriptions-2000 Level

KIN 2200 Basic Trauma and Life Support Cr. Hrs. 3

(Lab required) Assessment and management of medical emergencies common to sports. Topics will include on-field primary and secondary surveys, airway management, assessment and management of head, spinal,

chest, abdominal and extremity trauma. Open only to Athletic Therapy students or with permission of the instructor. May not be held with the former KIN 3200 or the former PHED 3200.

KIN 2610 Health and Physical Aspects of Aging Cr. Hrs. 3

An introduction to health, well-being and aging. Emphasis on health as multidimensional including physical, social and mental health. Integration of theory and research in examining selected issues related to health and physical aspects of aging. This is an Option in Aging course and may not be held for credit with PHED 2610 or NURS 2610.

KIN 2750 Athletic Therapy Skills Cr. Hrs. 3

This course will focus upon the theoretical study and practical application of massage therapy (basic and advanced) and sport specific taping, splinting and bracing techniques. The intent of this course is to help prepare students for their future in the profession of Athletic Therapy. May not hold for credit with PHED 2020 or PHED 3180. Open to Athletic Therapy students only.

SECTION 7: Kinesiology Course Descriptions-3000 Level

KIN 3160 Pathology and Sport Medicine Cr. Hrs. 3

(Lab required) Analysis of types of injuries and emergency procedures, and practical experience in first aid, taping and wrapping, massage, and various preventive techniques. May not be held with the former PHED 3160 or the former PHED 3060. Prerequisite: KPER 2320 (or the former KIN 2320 or the former PHED 2320).

KIN 3320 Advanced Human Anatomy Cr. Hrs. 3

(Lab Required) This course will concentrate on the structure and function of the human body's various tissues, organs and systems with particular emphasis upon basic histology, function and gross anatomy. This course will help prepare students who are interested in pursuing careers in Athletic Therapy and Kinesiology. Note: A fieldwork fee is attached to the course. Prerequisite: KPER 2320 (or the former KIN 2320 or the former PHED 2320).

KIN 3330 Functional Assessment and Restoration A Cr. Hrs. 3

(Lab required) General principles of assessment and restoration; assessment of acute and chronic musculo-skeletal injuries of the lower extremity; rehabilitation techniques to ensure full restoration of function. May not be held with KIN 3300 (PHED 3300). Prerequisite: KIN 3320 (C).

KIN 3332 Functional Assessment and Restoration B Cr. Hrs. 3

(Lab required) Assessment of acute and chronic musculo-skeletal injuries of the upper extremity and spine; rehabilitation techniques to ensure full restoration of function. May not be held with KIN 3300 (PHED 3300). Prerequisite: KIN 3330 (C).

KIN 3400 Therapeutic Modalities Cr. Hrs. 3

(Lab required) This course will concentrate on the use of therapeutic modalities commonly utilized in the profession of Athletic Therapy. It will introduce the student to various thermal mechanical, and electromagnetic agents used for therapeutic purposes. May not be held with the former PT 2720. Prerequisite: BIOL 1412.

KIN 3510 Physical Activity and Aging Cr. Hrs. 3

The study of the aging process and the effects of exercise and lifestyle factors on the health and fitness of the aging adult. This is an Option and Aging course. May not be held with the former KIN 4500 or the former PHED 4500. Prerequisites: KPER 3470 (C) (or the former KIN 3470, or the

former PHED 3470, or the former PHED 3430), or permission of the instructor.

KIN 3700 Advanced Motor Control and Learning Cr. Hrs. 3

This course focuses on the fundamentals of the nervous system as they relate to human movement and the application to motor control and learning. Emphasis is placed on an advanced understanding and application of theories and models of motor control and learning, including the introduction to how different components of the central and peripheral nervous systems contribute to movement. Prerequisite: KPER 2700 (or the former KIN 3450 or the former PHED 3450).

KIN 3912 Athletic Therapy Practicum Cr. Hrs. 4

To provide clinical and on-field internship experiences on campus and in the community for prospective Athletic Therapy candidates. May not hold for credit with the former PHED 3910 or the former KIN 3910. Evaluated on a pass/fail basis. Prerequisite [KIN 2750 (or the former PHED 2020 or the former PHED 3180)] and [KPER 2320 (or the former KIN 2320 or the former PHED 2320)] and [KIN 2200 (or the former KIN 3200 or the former PHED 3200)].

KIN 3914 Clinical Block Placement Cr. Hrs. 2

Clinical internship experiences on campus and in the community for prospective Athletic Therapy candidates. Evaluated on a pass/fail basis. May not be held for credit with KIN 3910 (PHED 3910). Prerequisites: KIN 3912.

SECTION 7: Kinesiology Course Descriptions-4000 Level

KIN 4040 Advanced Exercise and Health Psychology Cr. Hrs. 3

This course provides students with an advanced understanding of research, theory and contemporary issues in exercise and health psychology. Using a variety of methods, such as case studies, narrative, and research articles, students will learn to critically read and evaluate research in the field. Students will also explain and apply influential theories and models. Contemporary research topics covered in this class include psychological influences on health behaviours, including exercise, as well as the psychological outcomes of these health behaviours. Prerequisite: KPER 2540 (or the former KIN 2540 or the former PHED 2540) or permission of instructor.

KIN 4060 Drugs and Ergogenic Aids in Sport Cr. Hrs. 3

A multidisciplinary examination of drugs, hormones, dietary supplement and methods used by athletes in attempting to enhance athletic performance. Ethical concerns and mechanisms of action will be examined for steroids, stimulants, masking agents, blood doping, and hormonal and dietary supplements among others. May not hold for credit with PHED 4060. Recommended prerequisite BIOL 1412 (ZOOL 1330) or BIOL 2420 (ZOOL 2540).

KIN 4070 Development and Movement Disorders Cr. Hrs. 3

This course is designed to provide the student with an understanding of neuroscience as it relates to motor control and learning through consideration of foundational content in how the central and peripheral nervous systems contribute to movement control and the contributions of sensory feedback. The role of the nervous system for motor function will be explored through an understanding of a selection of developmental and acquired neurological disorders. Students will have an opportunity to examine the application of a selection of the content and theories to the study of a sample of neurological and/or developmental disorders. May not be held with the former PERS 4200 when titled "Developmental and Movement Disorders." Prerequisite: KPER 2700 (C), or the former KIN 3450 (C), or permission of the instructor.

KIN 4160 Advanced Pathology and Sport Medicine Cr. Hrs. 3

Basic principles of pathology and clinical manifestations of cardiac respiratory, and neurologic disorders. Preventative measures, assessments and treatment methods employed in care of patients with these disorders will also be examined. May not be held for credit with PHED 4050. Prerequisites: [KIN 3160 (C) (or the former PHED 3160, or the former PHED 3060)] and [KIN 3320 (C)] and [KPER 3470 (C) (or the former KIN 3470, or the former PHED 3470, or the former PHED 3430)].

KIN 4260 Human Factors and Ergonomics Cr. Hrs. 3

This course reviews principles of human factors and ergonomics and explores the systematic application of human capabilities, limitations and behaviours with regard to the design of usable elements within specific environments. Emphasis is placed on the interactive nature of human-machine systems, the development of ergonomic models, and the techniques used to assess the design of modern work and living environments. Prerequisite: KPER 2700 (or the former KIN 3450 or the former PHED 3450).

KIN 4330 Advanced Biomechanics Cr. Hrs. 3

(Lab required) A biomechanical analysis of the skills and techniques of the major sports, games, and exercises. May not be held with the former PHED 4360. Prerequisite: KPER 2330 (or the former KIN 2330 or the former PHED 2330 or the former PHED 2310).

KIN 4370 Physiology of Exercise in Extreme Environments Cr. Hrs. 3

Learn how humans exercise and work under five environmental extremes: heat, cold, hypobaria (altitude), hyperbaria (under water) and microgravity (space). After learning how each environment limits exercise and poses health risks, students will then apply knowledge of exercise physiology to determine how training and acclimatization can mitigate these limitations to maximize performance. Knowledge attained in this course will be valuable professionally (e.g., providing training for athletes in heat and cold), for personal recreation (e.g., mountaineering, SCUBA diving), or research (e.g., microgravity). May not be held with KPER 4000 or the former PERS 4200 when titled "Physiology of Exercise in Extreme Environments." Prerequisite: KIN 3470 (C).

KIN 4400 Therapeutic Exercise Rehabilitation Cr. Hrs. 3

This course will concentrate on therapeutic exercise for the upper and lower extremities, torso and spine. Content will focus upon using exercise and basic therapy techniques to restore function by addressing deficiencies in range of motion, flexibility, strength, power, endurance, proprioception, coordination, agility and speed. Prerequisites [KIN 3160 (C) (or the former PHED 3160 or the former PHED 3060)] and [KPER 3512 (C) (or the former KIN 3512, or the former KIN 3090, or the former PHED 3090)].

KIN 4460 Fitness Appraisal and Lifestyle Counselling Cr. Hrs. 3

Theoretical knowledge and practical training related to physical activity, fitness and lifestyle appraisal and counselling. Note: This course prepares students for certification as a Certified Personal Trainer (CPT) by the Canadian Society for Exercise Physiology. B. Kin. students who wish to prepare for certification as a Certified Exercise Physiologist (CEP) by the Canadian Society for Exercise Physiology, should consult the Undergraduate Program Administrator for information. May not be held for credit with PHED 4460. Prerequisites: KPER 3470 (C) or the former KIN 3470 or the former PHED 3470 or the former PHED 3430). Pre- or Co-requisites: [KPER 1200 (C) (or the former PERS 1200 or the former PHED 1200)] and [KIN 3512 (C) (or the former KIN 3090 or the former PHED 3090)]. Requires an active Recreation Services Membership.

KIN 4470 Advanced Exercise Physiology Cr. Hrs. 3

An advanced examination of the physiological factors that affect human performance during physical activity. This will include exposure to related research and the development of techniques for its critical assessment. May not be held with PHED 4410. Prerequisites: KPER 3470 (C) (or the former KIN 3470, or the former PHED 3470, or the former PHED 3430).

KIN 4500 Physical Activity and Aging Cr. Hrs. 3

The study of the aging processes and the effects of exercise and lifestyle factors on the health and fitness of the aging adult. May not be held for credit with PHED 4500. Prerequisite: KIN 3512 (KIN 3090, PHED 3512, PHED 3090) (C) or permission of the instructor.

KIN 4540 Advanced Topics in Sport Psychology Cr. Hrs. 3

This course will provide the student with a deeper understanding of psychological variables affecting individuals within sport contexts, including an exploration of various research methods and theories/research related to motivation, youth, and applied work in sport psychology. May not hold with the former PHED 4540. Prerequisite: KPER 2540 (or the former KIN 2540 or the former PHED 2540).

KIN 4560 Advanced Fitness Appraisal and Lifestyle Counselling Cr. Hrs. 3

(Lab required) Advanced theoretical knowledge and experiential learning related to physical activity, fitness and lifestyle assessment, counselling, and exercise prescription for apparently healthy and clinical populations. Prepares students for certification as a Certified Exercise Physiologist (CEP) by the Canadian Society of Exercise Physiology. May not be held with the former PHED 4350. Prerequisites: [KIN 4460 (C) (or the former PHED 4460)] and [KPER 3512 (C) (or the former KIN 3512, or the former KIN 3090, or the former PHED 3090)]. Requires an active Recreation Services membership.

KIN 4910 Athletic Therapy Practicum Cr. Hrs. 6

To provide clinical and on-field internship experiences on campus and in the community for prospective Athletic Therapy candidates. May not be held for credit with PHED 4910. Evaluated pass/fail. Prerequisite: KIN 3914 (KIN 3910, PHED 3910) (C) and KIN 3400 (C) and KIN 3320 (C).

SECTION 7: Phys Ed & Rec Studies General Course Descriptions-3000 Level**PERS 3340 Philosophy of Physical Activity and Leisure Cr. Hrs. 3**

Issues in sport, physical education and recreation will be examined from a philosophical perspective. May not be held for credit with KIN 3340 (REC 3340, PHED 2340). Prerequisite: PERS 2100 (C).

SECTION 7: Phys Ed & Rec Studies General Course Descriptions-4000 Level**PERS 4100 Current Issues Cr. Hrs. 3**

A capstone course examining current issues and strategies for addressing them in the broad fields related to kinesiology, recreation management, and physical education. Prerequisite: Successful completion of 90 credit hours of course work in the BKin or the BRMCD degree programs.

PERS 4630 Supervised Fieldwork Experience Cr. Hrs. 12

The fieldwork practicum is a professionally supervised field experience that provides an opportunity to apply knowledge gained in academic courses, and exposure to new concepts of professional practice in the fields of physical activity, health and wellness, or leisure. Students are placed for a 13-week period of full-time work within a suitable agency. May not be held for credit with PHED 4620 (REC 3080, or REC 4630). Prerequisite: Successful

completion of 90 credit hours of course work in the BKin or BRMCD degree programs and a minimum DGPA of 2.5.

SECTION 7: Physical Education Course Descriptions-2000 Level

PHED 2442 Health Education Cr. Hrs. 3

By integrating theory with practice, this course explores conceptions of health and education. Current health models and motivational theories will guide strategies for understanding health education. The course introduces students to conceptions of "active health" that challenge and support models of wellness and wellbeing. May not be held with the former PHED 3440. Prerequisite: KPER 1200 (or the former PERS 1200 or the former PHED 1200).

PHED 2710 Human Movement Principles Cr. Hrs. 3

An introduction to the principles of inclusive physical education through the integration of theory, practice and guided reflection pertaining to the development of fundamental movement skills and strategies applied to educational games, gymnastics, and dance. May not hold for credit with PHED 1420. Requires a paid facility use pass.

PHED 2742 Group Fitness and Leadership Cr. Hrs. 3

(ELC) This course integrates theory and practice necessary to design and lead safe and effective group fitness programs (e.g., interval, circuit, conditioning, choreography). Emphasis is placed on the Manitoba Curriculum Student Learning Outcomes in "Fitness Management", and prepares students for Group Fitness Leader Certification. This course includes a field trip component. May not be held with the former PHED 1640 or the former PHED 2630 or the former PHED 2640 or the former PHED 2740 or the former KIN 2740. Prerequisite: KPER 2320 (C) (or the former KIN 2320 or the former PHED 2320) or permission of instructor. Requires an active Recreation Services membership.

SECTION 7: Physical Education Course Descriptions-3000 Level

PHED 3102 Indigenous Song and Dance Cr. Hrs. 3

An introduction to a variety of traditional and culturally relevant Indigenous songs and dances representative of Canada's Indigenous peoples, including First Nations, Metis and Inuit, taught using western and traditional teaching styles with an emphasis on hands-on learning. May not be held with the former PERS 4200. A fieldwork fee is attached to the course.

PHED 3122 Developmental Games and Activities Cr. Hrs. 3

(ELC) Practical and theoretical aspects of designing educational game experiences applicable to early through senior years physical education, to include the design, implementation, and assessment of safe and inclusive physical activities as well as planning, organizational and teaching strategies. Introduces students to Manitoba Curriculum Student Learning Outcomes in "Movement Safety, Personal and Social Management". May not be held with the former PHED 2720 or the former PHED 2650. Prerequisite: PHED 2710 or permission of instructor.

PHED 3362 Culturally Relevant Pedagogies Cr. Hrs. 3

(Lab required) An investigation of physical health and education from a critical theorist perspective, that is, one that investigates the different relations of power and privilege (based on ability, gender, race, socio-economic class, sexuality etc.) experienced within education and physical activity contexts. The physical education experiences of young people from diverse backgrounds will be analyzed from a holistic perspective. May not

be held with the former PHED 3100 or the former PHED 3360. Prerequisite: PHED 3122 or the former PHED 2720.

PHED 3522 Coaching the High Performance Athlete A Cr. Hrs. 3

The development of advanced technical and theoretical expertise in coaching, including conflict management, psychology of performance, effective leadership, making ethical decisions, and practice planning. The course prepares students to be "Trained" in the Competition-Developmental level of the National Coaching Certification Program (NCCP). May not be held with the former PHED 3520 or the former KIN 3520. Prerequisites: Faculty permission and 45 credit hours of university course work. The student must demonstrate a high level of proficiency as an athlete, coach or official in their sport.

PHED 3532 Coaching the High Performance Athlete B Cr. Hrs. 3

The development of advanced technical and theoretical expertise in coaching, including prevention and recovery, leading drug free sport, developing athletic abilities, and designing a basic sport program. The course completes the fully "Trained" component of the Competition-Developmental level of the National Coaching Certification Program (NCCP). May not be held with the former PHED 3530 or the former KIN 3530. Prerequisites: PHED 3522 (C) or the former PHED 3520 or the former KIN 3520 (C).

PHED 3722 Coaching Theory and Practice Cr. Hrs. 3

(Lab required) An introduction to the theoretical and practical aspects of coaching at the community and school level, including the examination of topics of philosophical, psychological, ethical and technical significance. The course introduces students to the National Coaching Certification Program (NCCP) of Canada and the coach certification pathway. May not be held with the former PHED 2400, the former PHED 2402, the former KIN 3720, or the former KIN 3730, or the former PHED 3050.

PHED 3732 Dance and Rhythmic Activities Cr. Hrs. 3

(ELC) Practical and theoretical aspects of designing dance and rhythmic activity experiences applicable to early through senior years physical education, to include the design, implementation, and assessment of safe and inclusive physical activities as well as planning, organizational and teaching strategies. Incorporates Manitoba Curriculum Framework of Outcomes for K to 8 dance (2011) and Grade 9-12 dance (2015). May not be held with the former PHED 2730 or the former PHED 3410. Prerequisite: PHED 2710.

PHED 3750 Lifestyles Activities Cr. Hrs. 3

An introduction to the knowledge, skills, and attitudes that aid in the development of lifelong physically active and healthy lifestyles. May not hold for credit with KIN 3750 (REC 3750). Requires a paid facility use pass. Note: A fieldwork fee is attached to the course.

PHED 3760 Diverse Populations Mentorship Cr. Hrs. 3

Practical and theoretical aspects of designing physical activity experiences for students from diverse population, including on site leadership opportunities in a multicultural school context. Evaluated pass/fail.

PHED 3770 Indigenous Games and Activities Cr. Hrs. 3

This course will provide Indigenous and non-Indigenous students with a unique opportunity to explore, in theory and practice, traditional and contemporary world views related to historical, cultural, and environmental approaches to Indigenous games and activities.

SECTION 7: Physical Education Course Descriptions-4000 Level

PHED 4710 Outdoor Education Cr. Hrs. 3

To introduce the students to the basic outdoor skills associated with summer/winter backpacking/cross-country skiing/snow shoeing trips. Students will then learn to use a variety of outdoor settings for education opportunities on a variety of topics and disciplines. May not hold for credit with KIN 4710 (REC 4710). A fieldwork fee is attached to the course.

SECTION 7: Recreation Studies Course Descriptions-2000 Level

REC 2100 Introduction to Leisure Travel Cr. Hrs. 3

To provide an introduction to tourist behaviour and the tourism system through an overview of: why people travel; the components of tourism; the scope and organization of tourism in Canada; and the interrelationship between recreation and tourism. May not be held with the former PERS 1300 or the former REC 1200.

REC 2130 Introduction to Outdoor and Land-Based Recreation Cr. Hrs. 3

This course provides an introduction to both Indigenous and non-Indigenous perspectives on land-based education and outdoor recreation. Students examine how as individuals and groups we can build strong relationships and a robust sense of connection with others, with the land, the outdoors, and with recreation through academic and experiential explorations. Prerequisite: KPER 1400 (or the former PERS 1400 or the former REC 1400) or permission of instructor.

REC 2150 Introduction to Therapeutic Recreation Cr. Hrs. 3

An examination of the current principles of therapeutic recreation in relation to their practical application to individuals in clinical settings such as nursing homes, hospitals and other long-term care facilities. May not be held with the former REC 4150. Prerequisite: KPER 1400 (or the former PERS 1400 or the former REC 1400).

REC 2170 Introduction to Sport Management Cr. Hrs. 3

This course provides an introduction to sport management focusing primarily on North American sport. This course gives students an introduction to basic management functions and how they relate to sport management at the community, interscholastic, intercollegiate and professional levels. May not be held with the former REC 4170. Prerequisite: KPER 1400 (or the former PERS 1400 or the former REC 1400).

REC 2400 Management and Marketing of Leisure Services Cr. Hrs. 3

Basic management, and marketing principles and practices and their applicability to delivery of leisure services. Topics include financial resources, budgeting, people-centred management, and marketing. Prerequisite: KPER 1400 (or the former PERS 1400 or the former REC 1400).

REC 2650 The Social Aspects of Aging Cr. Hrs. 3

An examination of the social aspects of aging. Emphasis on understanding the aging process as a life transition involving adaptation through interaction with social and physical environments. This is an Option in Aging course and may not be held for credit with IDES 2650 (HMEC 2650, SWRK 2650).

SECTION 7: Recreation Studies Course Descriptions-3000 Level

REC 3072 Community Development Principles Cr. Hrs. 3

An introduction to community development principles and the role recreation and leisure play in developing healthy and vibrant communities. This course emphasizes connections between community, recreation, and leisure. Prerequisites: KPER 2200 (C) (or the former PERS 2200 or the former PHED 3080), or the former REC 2530.

REC 3090 Sustainable Nature-Based Tourism Cr. Hrs. 3

Analysis of the growth and development of sustain-able nature-based tourism as a global and regional phenomenon. Particular emphasis will be placed upon the fundamental principles of sustainability, natural resource and visitor management for recreation, and the role of outdoor recreation and education in Sustainable Tourism Planning and Management. Prerequisite: [KPER 1400 (or the former PERS 1400 or the former REC 1400)] and [REC 2100 (or the former PERS 1300 or the former REC 1200)]. Note: A fieldwork fee is attached to the course.

REC 3170 Sport and Development in Community Cr. Hrs. 3

An examination of the multiple uses of sport across communities for the purposes of development broadly defined. Emphasis is placed on exploring both theoretical and practical aspects of development in the leisure, sport and physical activity experiences of a multitude of communities at the local and national levels. This course aims to unpack, explore and describe the diverse lived experiences with sport, physical activity and leisure. Prerequisites: REC 2170 (C) or the former REC 4170 (C).

REC 3180 Social Psychology of Leisure Cr. Hrs. 3

This course explores the leisure behaviour of individuals in social contexts and examines current social psychological thinking about leisure experiences. Application of leisure behaviour concepts, theories and research in the delivery of leisure programs and services will be emphasized. Prerequisites: PSYC 1200, or (PSYC 1211 and PSYC 1221) or permission on instructor

REC 3220 Program Planning and Evaluation Cr. Hrs. 3

(Lab required) Consideration and application of program planning principles as they relate to specialized contexts and diverse populations. Foundations of interpersonal communication for effective and successful program implementation with emphasis on program evaluation. May not be held with the former REC 3200, the former REC 2540 or the former REC 3870. Prerequisite: KPER 2200 (or the former PERS 2200).

REC 3310 Cultural Tourism Cr. Hrs. 3

This course will provide students with an understanding of various stakeholder perspectives related to visiting and operating cultural tourism attractions. The following topics will be discussed: tourists' motivations and experiences, cultural resource managers' perspectives on tourism, tourism industry leaders' viewpoint on cultural resources and the relationship between cultural producers and consumers. Prerequisite: REC 2100 (or the former PERS 1300 or the former REC 1200).

REC 3400 Advanced Marketing of Leisure Services Cr. Hrs. 3

This course integrates the theory and practice of marketing leisure services. Strategies for marketing services and experiences within private, public sector and not-for-profit recreation agency programs and services are examined. Prerequisite: REC 2400 (C) or equivalent, or permission of instructor.

REC 3770 Indigenous Perspectives on Land-Based Education Cr. Hrs. 3

This course provides an introduction, overview and exploration of Indigenous knowledge systems and ways of knowing as an entry point to understanding Indigenous land-based education on Turtle Island (North America). Treaties, stories, traditional ecological knowledge and ways of living as well as an intensive land-based experiential learning weekend will

be used to explore historical and contemporary Indigenous perspectives of the land and land-based education. Prerequisite: REC 2130 (C) or permission of instructor.

REC 3850 The Planning of Recreation Areas and Facilities **Cr. Hrs. 3**

The process used to plan both recreational open spaces and facilities. Special consideration is given to the role of the recreation professional in relationship to other planners. Prerequisite: REC 3220 or the former REC 3200.

SECTION 7: Recreation Studies Course Descriptions-4000 Level

REC 4060 Person Centred Leisure Education **Cr. Hrs. 3**

A detailed examination of person-centred leisure education with an emphasis on both theoretical and practice models and their application to the recreation service delivery system. Prerequisites: KPER 3100 (C) (or the former PERS 3100, or the former REC 3060, or the former PHED 3390).

REC 4070 Community Development and the Leisure Service Delivery System **Cr. Hrs. 3**

The nature of community and the unique role that leisure service organizations play in the complex process of community development. Prerequisite: PERS 2200 (REC 2530, PHED 3080) (C) and REC 2400 (C) and completion of 70 percent of the core courses in Recreation Management and Community Development.

REC 4072 Advanced Community Development **Cr. Hrs. 3**

This course examines the nature of community and the unique role that leisure service organizations play in the complex process of community development. May not be held with the former REC 4070. Prerequisite: REC 3072 (C).

REC 4120 Recreational Travel and Tourism **Cr. Hrs. 3**

The purpose of this course is to provide students with a better understanding of the travel and tourism industry through an examination of its history, service systems and issues. Prerequisite: REC 2100 (or the former PERS 1300 or the former REC 1200).

REC 4250 Leisure and Aging **Cr. Hrs. 3**

The nature of the aging process and its impact on leisure behaviour. The factors influencing leisure among older adults, policy issues, and program and service methods and implications will be examined. May not be held with the former REC 4130. Prerequisites: KPER 3100 (C) (or the former PERS 3100, or the former REC 3060, or the former PHED 3390) or REC/SWRK/HMEC 2650 (C) or permission of instructor.

REC 4350 Parks and Protected Areas Planning and Management: Field Studies **Cr. Hrs. 6**

The course is taught in two segments, an on-campus component and field study component taking place in Banff National Park. The on-campus component examines the historical development of the concept of parks and protected areas, the role of interpretation, management and research in the parks and emerging issues in the management of parks and protected areas. In addition, during the on-campus component planning for the field will take place. The field segment will focus on a wide variety of management issues with particular attention to Banff National Park. Emerging issues and trends will be examined and past management responses evaluated. There will be opportunities for students to investigate specific management issues of interest to them and to participate in current

research being conducted in the park. Prerequisite: Written permission of the instructor required. Offered with GEOG 4350.

REC 4400 The Administration of Special Events **Cr. Hrs. 3**

Students will learn about theories and concepts that inform the study of special events and will be exposed to advanced management principles and practices and their applicability to the delivery of special events. May not be held for credit with the former REC 4310. Prerequisite: REC 3220 or the former REC 3200.

REC 4720 Wilderness Adventures **Cr. Hrs. 3**

Student will learn how to plan and participate in one or more wilderness adventure activities such as canoe tripping, sailing, kayaking, climbing, winter camping, etc. Students will also concentrate on conducting these activities safely with clients. It is hoped that this experience will positively affect future life sport and recreation activities. May not be held for credit with KIN 4720 or PHED 4720. A fieldwork fee is attached to the course.

Faculty of Law

Jonathan Black-Branch
 Bruce Curran: Associate Dean (J.D. Program) - Donn Short: Associate Dean
 (Research and Graduate Studies)
 303 Robson Hall
lawinfo@umanitoba.ca
 (204) 474 6130
 (204) 474 7580
www.umanitoba.ca/faculties/law
 Please refer to the Faculty website at umanitoba.ca/faculties/law
 Law Admissions Inquiries website: lawadmissions@umanitoba.ca

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SECTION 1: Degree Programs Offered

| Program/Degree | *Years to Compete | Total Credit Hours |
|------------------------|-------------------|--------------------|
| Juris Doctor (J.D.) | 5 | 152 |
| Master of Laws (LL.M.) | 6 | 161-163 and Thesis |

*This includes two years (60 credit hours) of study in an undergraduate program.

Equivalent academic courses completed at recognized universities elsewhere will be considered. For all admission requirements see: <http://law.robsonhall.com/student-resources/admissions>

*The Master of Laws is a thesis-based program designed for completion in one year after the completion of a three year J.D. program. The program consists of participation in the Graduate Legal Theory Seminar, two additional courses and completion of a substantial thesis. Further details are available through the LL.M. website: <http://law.robsonhall.ca/llm/admissions> Applicants should also consult the Faculty of Graduate Studies website: umanitoba.ca/graduate_studies/.

SECTION 2: The Profession and the Faculty of Law

Juris Doctor-J.D.

Robson Hall, Faculty of Law, offers a three year J.D. program that starts with the fundamental doctrinal courses that allow students to acquire a solid foundation in law. From the foundational courses, students can move into legal specialties of their choice, or choose to pursue a J.D. concentrating on Indigenous law, business law, or human rights. Clinical legal education has been a part of the J.D. program since the early 1970s and students develop lawyering skills under faculty guidance, expanding their perspectives and ethical understanding of the role of practising lawyers. Scholarship and research is built into the J.D. program so students have an opportunity to develop a critical understanding of law and its development.

2.1 The Study of Law

Legal education in Canada is divided into two phases: the academic study of law at one of the university law schools and practical training under the auspices of a provincial law society for those who wish to be admitted to practice and called to a Bar. As there is a reciprocal recognition of university law degrees between the common law provinces (all provinces except Quebec), the academic study can be taken in any one of these provinces.

A sound education in law provides a good foundation for a great variety of careers. In the past most law graduates have entered the private practice of law to concentrate on various types of legal work including: real estate transactions, commercial contracts, company law, family law, taxation. While the tendency to specialize in the practice of law is becoming more prevalent, most lawyers continue to be general practitioners prepared to perform most types of legal work according to the needs of their clients.

Besides the private practice of law, law graduates can join the legal departments of corporations as in-house counsel, or various government agencies that maintain legal departments. Law graduates also find careers in non-profit organizations, business, "law enforcement, social work, and journalism.

2.2 Clinical Learning

The curriculum invites critical assessment of the role of law in society as well as the development of skills relevant to the practice of law. In addition to lectures and seminars, students are given an opportunity to develop, under supervision, some of the research, writing and oral advocacy skills which will prove useful in the practise of law. In first year, students are acquainted with the various paper and electronic resource materials available in a law library, and they follow a program designed to develop legal research and writing techniques. In second and third years, students participate in negotiation exercises, mock trials and appeals and moot court competitions. Students may choose from a range of clinical courses, including clerkships with various levels of court internships and externships. Throughout their legal studies students have many opportunities to serve actual legal clients both by taking internship and externship courses and through Volunteering with organizations such as the University Community Law Centre, Pro Bono Students Canada and The Legal Help Centre. This clinical training is just one element of the program at Robson Hall that contributes to the excellent reputation of our graduates.

2.3 Research and Publications

Research and scholarly writing are integral elements of the mission of the University and the law school. Professors research, write and consult with the larger legal community in their particular area of expertise and students have similar opportunities. Each year students must take a writing requirement which provides an opportunity to explore a particular area of law in depth. Students have the opportunity to work on a number of scholarly publications including: Asper Review of International Business and Trade Law, Canadian Journal of Human Rights, Manitoba Law Journal, Robson Crim and Underneath the Golden Boy.

2.4 Faculty of Law Centres of Excellence

Robson Hall is home to two named research chairs. In 1999, the Faculty of Law established the Asper Chair of International Business and Trade Law. The Asper Chair sponsors a variety of research including bi-annual academic conferences in international business and trade law. An internship program allows up to four students a year to work with the Asper Chair and creates opportunities for students to advance their education, while gaining skills necessary to pursue careers in law or business with an international focus. Additionally, students involved in the Asper program have the opportunity to participate in international commercial dispute resolution competitions.

The Marcel Desautels Chair in Private Enterprise and the Law has a mandate to conduct research and provide education on issues of specific interest to the privately held or family owned businesses. The Desautel Centre's focus is on the needs of closely held businesses.

2.5 Student Organizations

All law students are members of the Manitoba Law Students' Association (MLSA), the student government. Student participation in faculty governance takes place through the representation of elected members of the MLSA. In addition to the Manitoba Law Students' Association there exists a diversity of student groups at Robson Hall. No matter what your interests, joining a student group can greatly enhance your law school experience by providing you with greater opportunities throughout the year to interact with the community and other students. Student groups include:

Business Law Group
Canada Law Games
Christian Legal Fellowship (CLF)
Criminal Law Group
Curling Club

Debating Club
Employment and Labour Club
Environmental Law Group
Feminist Legal Forum
Health and Elder Law Club
Human Rights Collective
Manitoba Indigenous Law Students Association (MILSA)
Mental Health Group
Migration Law Group
MBA Mentorship Program
Outlaws
Pro Bono Students Canada (PBSC)
Robson Hall Mediators
Please see the MLSA website for a complete list

SECTION 3: Admission to the Faculty of Law

3.1 Course Requirements for Admission to J.D. Program

Robson Hall, Faculty of Law offers three First Year Admission categories:

- Index Score (Regular) Category (50% GPA and 50% LSAT score)
- Individual Consideration Category
- Canadian Indigenous Category

The minimum academic requirement to apply is two (2) full-years of university degree level courses (equivalent to 60 credit hours). Included in the 60 credit hours should be a course to fulfill the University's mathematics requirement. Completion of the JD program fulfills the University's Written English requirement. For additional information about the University's Mathematics and Written English requirements, see the 'General Academic Regulations' of this calendar

All applicants must write the Law School Admission Test (LSAT).

Please visit the Robson Hall website: <http://law.robsonhall.com/student-resources/admission/>

SECTION 4: Academic Regulations

All students are asked to note that some academic policies and regulations are under review and are subject to change. Please check the Web Calendar at www.umanitoba.ca for updated information.

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the Faculty of Law has regulations and requirements, published below, that apply specifically to its students.

4.1 Residence requirements for the Juris Doctor Degree

To obtain the Juris Doctor (J.D.) degree from the University of Manitoba, ordinarily a student must successfully complete two of the three years of the Juris Doctor (J.D.) program at the University of Manitoba. The remaining year may be completed at another law school as approved by the Admissions Committee or the Dean's office.

4.2 Licence to Practise Law

Graduates who wish to practise must apply to the Law Society of the province in which they wish to practise. Law societies generally require applicants to complete a bar admission course. The Law Society must be

satisfied as to the good character and repute of its applicants, as well as their academic competence and qualifications. Inquiries with regard to the Province of Manitoba should be made to the [Law Society of Manitoba](#).

4.3 Regulations of the Faculty of Law

Regulations of the Faculty of Law, as amended from time to time governing attendance, evaluation, prizes, and progression may be consulted at the Faculty's website (<http://law.robsonhall.com/student-resources/exam-information>).

4.4 Miscellaneous Registration Matters

The Associate Dean's office shall, subject to appeal to the Academic Affairs Committee, consider and determine all applications from students admitted to the faculty for permission: (i) to take part of their law studies at another university under a letter of permission with conditions; (ii) to defer their law studies for a period of one or more academic years after successfully completing first or second year, and to permit such students to re-register following such an absence with conditions; (iii) to withdraw before completing the academic year for which they are registered and to permit, in the case of a student who withdraws from first year under exceptional circumstances, that student to re-register for a subsequent academic year as a supernumerary student, and in the case of a second or third year student, to permit such student to re-register for a subsequent academic year; in all cases with or without conditions; (iv) to switch from the full-time program to the half-time program and vice versa.

SECTION 5: Program Requirements

5.1 Juris Doctor Admission as of September 2018

This section describes the program requirements that are in effect for the academic year. However, prospective students should be aware that the Faculty of Law regularly reviews its curriculum to ensure that it continues to meet the current needs of our students.

First Year

Each full-time student is required to take all of the following courses:

| Course No. | Mandatory Courses | Credit Hours |
|---------------------------|--------------------------------|--------------|
| LAW 1102 | Contracts | 5 |
| LAW 1140 | Criminal Law and Procedure | 5 |
| LAW 1460 | Constitutional Law | 5 |
| LAW 1480 | Torts and Compensation Systems | 5 |
| LAW 1500 | Property | 5 |
| LAW 1540 | Legal Methods | 5 |
| LAW 1530 | Legal System | 2 |
| Total credit hours | | 32 |

Second Year Only

Each full time student in Second Year is required to take a total of 30 credit hours. The 30 credit hours consist of 15 credit hours of mandatory courses and 15 credit hours of electives (List A and List B; see below), which must include a minimum of one Writing Requirement Course (List A).

| Course No. | Mandatory Courses | Credit Hours |
|------------|-------------------|--------------|
|------------|-------------------|--------------|

| | | |
|----------|--------------------------|---|
| LAW 2602 | Evidence | 3 |
| LAW 3530 | Administrative Law | 3 |
| LAW 2690 | Corporations I | 3 |
| LAW 2650 | Introduction to Advocacy | 3 |
| LAW 2680 | Legal Negotiation | 3 |

Total Credit Hours **15**

List A: Writing Requirement Courses

| | | |
|----------|---|---|
| LAW 3012 | International Business Law | 3 |
| LAW 3014 | International Trade Law | 3 |
| LAW 3018 | Human Rights Law | 3 |
| LAW 3030 | Research Paper B | 3 |
| LAW 3070 | Gender and the Law | 3 |
| LAW 3090 | Children and the Law | 3 |
| LAW 3120 | Philanthropy and the Law | 3 |
| LAW 3170 | Dispute Resolution | 3 |
| LAW 3230 | Aboriginal Peoples and Land Claims | 3 |
| LAW 3310 | Aboriginal Peoples and the Law | 3 |
| LAW 3370 | The Legislative Process | 3 |
| LAW 3380 | Issues in Law and Bio Ethics | 3 |
| LAW 3394 | Internet and E-Commerce | 3 |
| LAW 3410 | Canadian Legal History | 3 |
| LAW 3620 | Comparative Law | 3 |
| LAW 3674 | Advanced Public Law | 3 |
| LAW 3740 | Public International Law | 3 |
| LAW 3828 | Preventing Wrongful Convictions | 3 |
| LAW 3940 | Canadian Charter of Rights and Freedoms | 3 |
| LAW 3980 | Current Legal Problems B | 3 |

List B: Elective Courses (Second or Third Year)

| | | |
|----------|-----------------------------|---|
| LAW 2400 | Wills and Succession | 3 |
| LAW 2490 | Trusts | 3 |
| LAW 2640 | Family Law | 3 |
| LAW 2672 | Civil Procedure | 3 |
| LAW 2700 | Income Tax Law | 3 |
| LAW 3016 | Corporations II | 3 |
| LAW 3026 | Trademarks | 3 |
| LAW 3050 | Commercial Law | 3 |
| LAW 3210 | Competitions A | 3 |
| LAW 3212 | Immigration and Refugee Law | 3 |

| | | |
|----------|---------------------------------|---|
| LAW 3022 | Insurance Law | 3 |
| LAW 3220 | Competitions B | 3 |
| LAW 3330 | Employment Law | 3 |
| LAW 3392 | Securities Law | 3 |
| LAW 3590 | Charter Issues in Criminal Law | 3 |
| LAW 3600 | Environmental Law | 3 |
| LAW 3826 | Advanced Scholarly Publications | 3 |
| LAW 3690 | Real Estate Transactions | 3 |
| LAW 3770 | Labour-Management Relations | 3 |
| LAW 3824 | Scholarly Publications | 3 |
| LAW 3832 | Legal Aid Clinic | 3 |
| LAW 3852 | Private International Law | 3 |
| LAW 3880 | Municipal and Planning Law | 3 |
| LAW 3980 | Current Legal Problems B | 3 |

Third Year

Each full time student in Third Year is required to take a total of 30 credit hours. The 30 credit hours consist of one mandatory course and 27 credit hours of electives which must include a minimum of one Writing Requirement Course (List A; see Section 5.2). Third year students may select electives from List A or List B (see Section 5.2), or List C (see below).

| Compulsory Course | | Credit Hours |
|---|--|---------------------|
| LAW 3024 | The Legal Profession and Professional Responsibility | 3 |
| List C: Elective Courses (Third Year Only) | | |
| LAW 3020 | Clinical Administrative Law | 3 |
| LAW 3132 | Clinical Family | 3 |
| LAW 3032 | Court of Queen's Bench Clerkship | 3 |
| LAW 3034 | Court of Appeal Clerkship | 3 |
| LAW 3302 | Clinical Criminal Law | 6 |
| LAW 3340 | Advanced Advocacy | 3 |
| LAW 3532 | Intensive Criminal Law | 3 |
| LAW 3862 | Business Transactions: The Art of the Deal | 6 |
| LAW 3360 | Advanced Legal Research | 3 |
| LAW 3450 | Remedies | 3 |
| LAW 3510 | Corporate Tax | 3 |
| LAW 3520 | Taxation of Trusts & Estates | 3 |
| LAW 3980 | Current Legal Problems B | 3 |
| LAW 3990 | Externship | 12 |

5.2 First Year Admission Before September 2018

Each full-time student is required to take all of the following courses:

| Course No. | Doctrinal Courses (Compulsory) | Credit Hours |
|-------------------|---------------------------------------|---------------------|
| | | |

| | | |
|--|--------------------------------|-----------|
| LAW 1100 | Contracts | 6 |
| LAW 1140 | Criminal Law and Procedure | 5 |
| LAW 1460 | Constitutional Law | 5 |
| LAW 1480 | Torts and Compensation Systems | 5 |
| LAW 1500 | Property | 5 |
| Clinical Course (Compulsory) | | |
| LAW 1540 | Legal Methods | 5 |
| Perspective Course (Compulsory) | | |
| LAW 1530 | Legal System | 2 |
| Total credit hours | | 33 |

5.3 Second Year Only Admission Before September 2018

In **Second Year** each student must take:

| | Doctrinal Courses (Compulsory) | |
|--------------------------------------|---------------------------------------|-----------|
| LAW 2600 | Evidence | 4 |
| LAW 3530 | Administrative Law | 3 |
| LAW 2670 | Civil Procedure | 2 |
| LAW 2690 | Corporations I | 3 |
| Clinical Courses (Compulsory) | | |
| LAW 2650 | Introduction to Advocacy | 3 |
| LAW 2680 | Legal Negotiation | 3 |
| Total Credit Hours | | 18 |

5.4 Second Year or Third Year Admission before September 2018

| | Doctrinal Courses (Compulsory) | |
|---|---------------------------------------|---|
| LAW 2490 | Trusts | 3 |
| LAW 2640 | Family | 3 |
| LAW 2700 | Income Tax and Policy | 3 |
| Perspective Courses (One Compulsory for each of Second and Third Years; more can be taken) | | |
| LAW 3012 | International Business Law | 3 |
| LAW 3014 | International Trade Law | 3 |
| LAW 3018 | Human Rights Law | 3 |

| | | |
|-------------------------------------|---|---|
| LAW 3030 | Research Paper B | 3 |
| LAW 3070 | Gender and the Law | 3 |
| LAW 3090 | Children and the Law | 3 |
| LAW 3120 | Philanthropy and the Law | 3 |
| LAW 3130 | Poverty Law | 3 |
| LAW 3170 | Dispute Resolution | 3 |
| LAW 3230 | Aboriginal Peoples and Land Claims | 3 |
| LAW 3310 | Aboriginal Peoples and the Law | 3 |
| LAW 3370 | The Legislative Process | 3 |
| LAW 3380 | Issues in Law and Bio Ethics | 3 |
| LAW 3410 | Canadian Legal History | 3 |
| LAW 3490 | Research Paper | 2 |
| LAW 3620 | Comparative Law | 3 |
| LAW 3740 | Public International Law | 3 |
| LAW 3760 | Jurisprudence | 2 |
| LAW 3940 | Canadian Charter of Rights and Freedoms | 3 |
| LAW 3980 | Current Legal Problems B | 3 |
| Doctrinal Courses (Optional) | | |
| LAW 2400 | Wills and Succession | 3 |
| LAW 2530 | Debtors' and Creditors' Rights | 2 |
| LAW 3016 | Corporations II | 3 |
| LAW 3026 | Trademarks | 3 |
| LAW 3050 | Commercial Law | 3 |
| LAW 3210 | Competitions A* | 3 |
| LAW 3212 | Immigration and Refugee Law | 2 |
| LAW 3022 | Insurance Law | 3 |
| LAW 3220 | Competitions B * | 3 |
| LAW 3330 | Employment Law | 3 |
| LAW 3390 | Securities Law | 2 |
| LAW 3480 | Restitution | 2 |
| LAW 3590 | Charter Issues in Criminal Law | 3 |
| LAW 3600 | Environmental Law | 3 |
| LAW 3690 | Real Estate Transactions | 3 |
| LAW 3770 | Labour-Management Relations | 3 |
| LAW 3822 | Scholarly Publication* | 2 |
| LAW 3832 | Legal Aid Clinic * | 3 |
| LAW 3852 | Private International Law | 3 |
| LAW 3880 | Municipal and Planning Law | 3 |
| LAW 3970 | Current Legal Problems A | 2 |
| LAW 3980 | Current Legal Problems B | 3 |

Each student in **Second Year** must take a minimum of 32 credit hours. The 32 credit hours are made up of mandatory, doctrinal and clinical courses plus electives comprising 14 to 16 credit hours. The 32 credit hours must include at least one perspective course.

Each student in **Third Year** must take a minimum of 32 credit hours. The 32 credit hours are comprised of LPPR and any second or third year compulsory doctrinal courses that have not been taken, plus electives comprising the additional credit hours. The 32 credit hours must include at least one perspective course. Note: LAW 3490 Research Paper is excluded if it has been taken in second year.

| Compulsory Course | | |
|--------------------------|--|---|
| LAW 3024 | The Legal Profession and Professional Responsibility | 3 |

The rest of a Third Year student's credit hours, comprising a minimum of 32 credit hours, shall be selected from additional Second or Third Year Courses, above, including at least one Perspective Course, plus any of the Doctrinal, and Clinical Courses, below:

| Clinical Courses (Optional) | | |
|-------------------------------------|---|---|
| LAW 3020 | Clinical Administrative Law | 3 |
| LAW 3250 | Current Legal Problems D A01 Clinical Family Law | 3 |
| LAW 3300 | Clinical Criminal Law | 8 |
| LAW 3340 | Advanced Advocacy | 3 |
| LAW 3862 | Business Transactions: The Art of the Deal | 6 |
| Doctrinal Courses (Optional) | | |
| LAW 3240 | Current Legal Problems C | 2 |
| LAW 3360 | Advanced Legal Research | 3 |
| LAW 3450 | Remedies | 3 |
| LAW 3510 | Corporate Tax | 3 |
| LAW 3520 | Taxation of Trusts & Estates | 3 |
| LAW 3980 | Current Legal Problems B | 3 |

* No more than three of these electives can be selected for credit. Note: A student is permitted to take only one moot for credit in each of second and third year. Students may take more than three of these electives but no credit will be awarded over the limit.

Third Year

You may only take one of: Clinical Administrative Law, Advanced Advocacy, Intensive Criminal Law, Legal Help Centre Clinical or Clinical Family. If you take Art of the Deal you may take Clinical Administrative Law, Advanced Advocacy, Intensive Criminal Law Legal Help Centre Clinical or Clinical Family. You may not take any other clinical course if you are taking Clinical Criminal Law.

SECTION 6: Registration

All students will need to register themselves through Aurora. Please check the [Faculty of Law](#) website for detailed information.

SECTION 7: Law Course Descriptions-1000 Level

LAW 1102 Contracts

Cr. Hrs. 5

This course covers the basic principles of contract law, including how a contract is formed; what is an offer; what constitutes acceptance; whether all promises are enforceable as a contract; when parties should be allowed to avoid obligations; what happens if one party misrepresents the quality of subject matter of the contract; what happens when a party makes a mistake

about what they buy or sell; what should happen if one party takes advantage of another for a better deal for themselves. May not be held with LAW 1100.

LAW 1140 Criminal Law and Procedure **Cr. Hrs. 5**

A general introduction to criminal law and procedure dealing with principles of criminal liability, common defenses to criminal charges, selected specific offences, and the basic procedures to be followed in the administration of criminal justice in Canada.

LAW 1460 Constitutional Law **Cr. Hrs. 5**

An examination of the legal problems arising from the nature of the Canadian political structure and, in particular, the distribution of legislative powers between the federal parliament and the provincial legislatures and an introduction to the impact of the Canadian Charter of Rights and Freedoms.

LAW 1480 Torts and Compensation Systems **Cr. Hrs. 5**

A general introduction to the law of torts and other compensation systems such as the Workers' Compensation and Criminal Injuries Compensation schemes.

LAW 1500 Property **Cr. Hrs. 5**

A general introduction to the principles of property with special emphasis on the principles of real property, their historical development and modern application.

LAW 1530 Legal System **Cr. Hrs. 2**

An introduction to the study of law including initial analysis of various aspects of legal history, the structure of the legal system, legal reasoning, statutory interpretation, dispute resolution and the role of the judiciary.

LAW 1540 Legal Methods **Cr. Hrs. 5**

An introduction to legal research and writing skills and oral advocacy. Grading: Pass/Fail

SECTION 7: Law Course Descriptions-2000 Level

LAW 2400 Wills and Succession **Cr. Hrs. 3**

The law of testate and intestate succession, Part IV of The Marital Property Act, and The Dependents' Relief Act.

LAW 2490 Trusts **Cr. Hrs. 3**

The nature and functions of modern inter vivos and testamentary trusts. The creation of express, private trusts, charitable trusts, resulting trusts, and constructive trusts. The administration of trusts, and real and personal remedies of beneficiaries under trusts.

LAW 2602 Evidence **Cr. Hrs. 3**

A study of the rules relating to the admissibility and weight of evidence in judicial proceedings. May not be held with LAW 2600.

LAW 2640 Family Law **Cr. Hrs. 3**

An overview of key legal issues regarding familial relationships and family breakdown in Canadian society. Topics include cohabitation, marriage, separation, divorce, child custody and access, spousal and child support and property division.

LAW 2650 Introduction to Advocacy **Cr. Hrs. 3**

A detailed study of the conduct of a case from its inception through to trial. The course requires that students prepare and conduct a trial. Grading: Pass/Fail.

LAW 2672 Civil Procedure **Cr. Hrs. 3**

An introduction to the rules of civil procedure. May not be held with LAW 2670

LAW 2680 Legal Negotiation **Cr. Hrs. 3**

Most legal disputes settle before trial. This course examines how lawyers assist their clients through effective interviewing, counseling, strategic planning and negotiation as well as some of the mechanisms, both judicial and non-judicial, that facilitate pre-trial dispute settlement.

LAW 2690 Corporations I **Cr. Hrs. 3**

A study of the major legal, practical and policy issues arising out of the formation and operation of business organizations in Canada, with a particular focus on business corporations. Students will examine major principles of Canadian corporate law, including corporate personality, management power, majority rule and minority protection.

LAW 2700 Income Tax Law and Policy **Cr. Hrs. 3**

The object of this course is to develop a working knowledge of the basic principles and rules of the income tax system as these apply to individuals. A parallel objective is the discovery of the major policy positions that inform the personal income tax system and the development of the ability to use tax policy analysis to evaluate advantages of, and problems with, the current system.

SECTION 7: Law Course Descriptions-3000 Level

LAW 3012 International Business Law **Cr. Hrs. 3**

Explores the legal, practical and social realities of international business transactions.

LAW 3014 International Trade Law **Cr. Hrs. 3**

The course will deal with the doctrine, practice and policy issues in international trade and business.

LAW 3016 Corporations II **Cr. Hrs. 3**

An advanced study of corporations law from various theoretical and practical perspectives.

LAW 3018 Human Rights Law **Cr. Hrs. 3**

Critical and constructive study, at an advanced level, of a significant major subject or set of topics in Human Rights Law.

LAW 3020 Clinical Administrative Law **Cr. Hrs. 3**

The primary purpose of this course is to train students in lawyering skills. Students will be required to engage in classroom work and participate in simulated exercises. Emphasis will be given to the difference between board and court advocacy.

LAW 3022 Insurance Law **Cr. Hrs. 3**

Introduction to the basic principles of insurance law. The fundamental elements to most types of policies will be examined with particular emphasis on property and liability insurance. The terms and provisions specific insurance policies and coverages such as automobile, property, liability policies will also be covered.

LAW 3024 The Legal Profession and Professional Responsibility **Cr. Hrs. 3**

A general introduction to the problems of professional responsibility and the ethics of lawyers individually, as well as the legal profession collectively. Topics dealt with will include ethical problems of the lawyer in the role of the advocate and in the role of counsellor (confidentiality, conflict of interest, etc.); professional responsibility in the delivery of legal service (competency, fee determination, specialization, regulation etc) and the legal profession and the public interest (governance of profession, discipline, professional liability etc) These problems are to be studied by the critical examination of case law, codes, canons, and other published materials, by classroom discussion and debate on problems; and by workshops and panels which involve practising lawyers.

LAW 3026 Trademarks and Patents **Cr. Hrs. 3**

An in-depth examination of the law of Trademarks and Patents, including underlying policy objectives.

LAW 3028 Copyright Law **Cr. Hrs. 3**

An in-depth examination of the law of Copyright.

LAW 3030 Research Paper B **Cr. Hrs. 3**

Details in each case to be worked out with the Associate Dean. 10,000 words for 3 credit hours. May not be held with LAW 3490.

LAW 3032 Court of Queen's Bench Clerkship **Cr. Hrs. 3**

Students will be expected to provide research assistance to the Justices, and students will be asked to provide written memoranda and other research to help the Justices prepare for trial or application hearings. Discussions of legal issues may follow from the work that students do. May not be held with LAW 3250 when titled "Court of Queen's Bench Clerkship" Grading: Pass/Fail.

LAW 3034 Court of Appeal Clerkship **Cr. Hrs. 3**

Students will be expected to provide research assistance to the Justices, and students will be asked to provide written memoranda to help the Justices prepare for hearings. Discussions of legal issues may follow from the other work that students do. Grading is on a Pass/Fail basis.

LAW 3050 Commercial Law **Cr. Hrs. 3**

A study of secured transactions and negotiable instruments.

LAW 3070 Gender and the Law **Cr. Hrs. 3**

An exploration of ideas about gender differentiation in law, the legal system, legal education and the legal profession. It will offer an introduction to the feminist critique of law and feminist theories about sexual equality and discrimination.

LAW 3090 Children and the Law **Cr. Hrs. 3**

Relationships between child, family, state and law are examined within an interdisciplinary context, focusing on such issues as rights theories and the public/private distinction; regulation of young offenders, child protection and state intervention; and child victims in the courts.

LAW 3120 Philanthropy and the Law **Cr. Hrs. 3**

This course investigates the origins of, and regulation of, charities and charity law as well as regulation of other non-profit entities. Typical topics considered in this course include the social, economic and cultural importance of an ethic of giving, the tax benefits attendant upon charitable status, dimensions of fund-raising, public and private foundations and terrorism and international charities.

LAW 3132 Clinical Family **Cr. Hrs. 3**

This course will serve as a bridge between the introductory family law course and the Advanced Family Law course, enabling students to develop a deeper understanding of the issues in this area of the law and to be better prepared to assimilate the necessary skills to be successful in this high demand area of practice. May not be held with LAW 3250 when titled Clinical Family. Registration restricted to students in Year 3. Prerequisite LAW 2640. Grading: Pass/Fail.

LAW 3170 Dispute Resolution **Cr. Hrs. 3**

This course offers a detailed exploration of the theory and practice of dispute resolution focusing on the various approaches, private and court-connected, currently used to resolve conflict. In critically examining selected alternative dispute resolution mechanisms, the course exposes students to issues such as rights-based and interest-based dispute resolution, power, gender and culture in ADR processes and the functions, and skills required of, third party interveners. May not be held with the former LAW 3160 or LAW 3162.

LAW 3210 Competitions A **Cr. Hrs. 2**

Credit for selected students who satisfactorily participate in those academic competitions approved by Faculty Council. Grading: Pass/Fail.

LAW 3212 Immigration Law **Cr. Hrs. 3**

The refugee definition; the need for refugee protection; procedural protection for refugee claimants; a comparative study of refugee determination systems; the legality of a refugee sanctuary movement; the legal status of refugee claimants in Canada; refugee and immigrant detention; the relevance of Charter guarantees to refugees and immigrants; visa requirements and airline fines; the international system of refugee protection; racist intention and effect in immigration and refugee law; material misrepresentation as a ground of exclusion; medical inadmissibility; equivalence of Canadian and foreign criminal offenses for purposes of exclusion; the relevance of foreign laws in determining family composition of sponsored immigrants. May not be held with LAW 3200.

LAW 3220 Competitions B **Cr. Hrs. 3**

Credit for selected students who satisfactorily participate in those academic competitions approved by Faculty Council. Grading: Pass/Fail.

LAW 3230 Aboriginal Peoples and Land Claims **Cr. Hrs. 3**

The course shall provide an overview of land claims and treaty land entitlement policies in Canada and their impact upon land claims by Aboriginal communities.

LAW 3250 Current Legal Problems D **Cr. Hrs. 3**

Critical and constructive study, at an advanced level, of a significant major subject or set of topics. Grading: Pass/Fail.

LAW 3302 Clinical Criminal Law **Cr. Hrs. 6**

The primary purpose of this offering is to train students in lawyering skills in the criminal law area. To this end, instruction is given on an intensive basis in small groups. Students may be required to engage in classroom work; to participate in various forms of simulation exercises and to conduct actual client based cases under the supervision of the instructor. Particular emphasis will be given to questions of professional responsibility and ethics. Registration restricted to students in Year 3. May not be held with LAW 3300. Prerequisites: (LAW 2602 or LAW 2600) and LAW 3590. Corequisite: LAW 3532 or LAW 3340. Grading: Pass/Fail.

LAW 3310 Aboriginal Peoples and the Law **Cr. Hrs. 3**

A study of the laws relating to Aboriginal Peoples in North America from the colonial period to the present. Special emphasis will be given to aboriginal rights, hunting and fishing rights, the legal aspects of Indian

Treaties and the Indian Act. A more general treatment will be given to a study of Aboriginal Peoples' relationship to civil and criminal law in modern Canadian society.

LAW 3330 Employment Law **Cr. Hrs. 3**

A detailed study of employment law including employment principles, constructive and wrongful dismissal, just cause, human rights and remedies.

LAW 3340 Advanced Advocacy **Cr. Hrs. 3**

Advanced topics in trial presentation, procedure and evidence with concentration on jury trials.

LAW 3360 Advanced Legal Research **Cr. Hrs. 3**

This course will provide students with the wherewithal to conduct legal research across a number of jurisdictions using both print and digital formats. Students are evaluated on a number of research exercises, a midterm examination, a major research pathfinder and a presentation of research results.

LAW 3370 The Legislative Process **Cr. Hrs. 3**

A study of how statutes and regulations are made in the Province of Manitoba, and how lawyers can effectively represent their clients in the context of lawmaking by politicians, civil servants and regulators.

LAW 3380 Issues in Law and Bio Ethics **Cr. Hrs. 3**

The course deals with the legal aspects of prevention, creation, alteration, maintenance and termination of life through medical and other scientific means.

LAW 3392 Securities Law **Cr. Hrs. 3**

A study of the basic concepts and application of the securities regulatory system in Canada. May not be held with LAW 3390.

LAW 3394 Internet and E-Commerce Law **Cr. Hrs. 3**

This is a perspectives course. It will cover legislation, case law and practical drafting techniques in many areas in order to better equip students in the practice of law, and at the same time invite students to reflect upon the political and social issues that arise as "cyberlaw" develops. Subject matter of the course: The legislation, court decisions, policy debates and practical drafting and litigation techniques connected with the internet and e-commerce. A variety of issues will be covered, including: freedom of expression issues, jurisdiction, internet speech regulation; online privacy issues; intellectual property issues, including domain names and downloading of copyright material; internet commerce issues, such as the law of contracts pertaining to online contracting. May not be held with LAW 3980 when titled "Internet and Ecommerce Law".

LAW 3410 Canadian Legal History **Cr. Hrs. 3**

The historical background of the Canadian legal system.

LAW 3450 Remedies **Cr. Hrs. 3**

A study of the law relating to damages, specific performance, injunctions, and other equitable remedies.

LAW 3510 Corporate Taxation **Cr. Hrs. 3**

A study of federal tax laws as they affect corporation income, as well as a discussion of the effects of income tax laws on corporate and other commercial planning.

LAW 3520 Taxation of Trusts and Estates **Cr. Hrs. 3**

A study of taxation principles as they relate to partnership and trust income and estate planning.

LAW 3530 Administrative Law **Cr. Hrs. 3**

An introduction to administrative law generally, with concentration on the judicial review of the exercise of statutory authority by administrative entities.

LAW 3532 Intensive Criminal Law **Cr. Hrs. 3**

This course follows the general introduction to the complexities and principles of criminal law presented in earlier courses on criminal law and evidence. It emphasizes the ways in which these complexities and principles play out in practice and has a strong practical component. It is well-suited for students considering working in the field of criminal law. The first half of the course will address the demands placed on prosecutors and defence counsel at various points of a prosecution, including, inter alia, application for judicial interim release, the preparation of pre-trial motions, direct and cross-examination, and sentencing. These demands are not only statutory, but also logistical, tactical and ethical. The second half of the course will look at these demands in the context of certain "special" criminal law contexts, including, inter alia, impaired driving, young offenders, domestic violence, and drug prosecutions. Registration restricted to students in Year 3. May not be held with LAW 3250 when titled "Intensive Criminal Law". Grading: Pass/Fail.

LAW 3590 Charter Issues in Criminal Law **Cr. Hrs. 3**

The rules of Criminal Procedure and principles underlying and unifying such rules with a particular emphasis on the effect of the Charter of Rights and Freedoms on those rules.

LAW 3600 Environmental Law **Cr. Hrs. 3**

The balance between technical development and the life-support capacity of the environment. The acquisition and nature of private rights in natural resources and their control by legislation and common law. Remedies for environmental degradation. Constitutional and international legal issues.

LAW 3620 Comparative Law **Cr. Hrs. 3**

An introduction to civil law; a brief historical survey, codification, judicial philosophy, detailed study of selected comparative law topics in tort and contract with special reference to the Civil Code of the Province of Quebec. An introduction to Soviet law, detailed study of selected topics in Soviet law.

LAW 3674 Advanced Public Law **Cr. Hrs. 3**

This course provides students with a fuller appreciation and knowledge of several topics of interest and importance for Canadian public law, including the changing boundaries of public law in our "shrinking" state, the scope and meaning of judicial, administrative and bureaucratic independence, the role of international human rights norms in Canadian constitutional and administrative law, the intersection between the Canadian Charter of Rights and Freedoms and administrative law and the role of guidelines, policies and other "soft law" in public administration. Although focused on Canadian public law, the course may include a comparative component and draw from the public law experience of other jurisdictions. May not be held with LAW 3980 when titled "Advanced Public Law". Prerequisite: LAW 3530.

LAW 3690 Real Estate Transactions **Cr. Hrs. 3**

The law relating to vendors and purchasers of land and to mortgages and other security on land.

LAW 3740 Public International Law **Cr. Hrs. 3**

Public international law has a complex history, one that lends itself to conflicting interpretations. It has also been the object of a variety of competing theoretical projects, most of which diverge radically on questions of form and substance. This course provides a historically and

theoretically reinforced introduction to the basic rules, principles, and institutions of public international law.

LAW 3770 Labour-Management Relations Cr. Hrs. 3

A survey of the development of trade unions; their present status under both federal and provincial legislation regarding the right of association, collective bargaining, and the settlement of disputes.

LAW 3824 Scholarly Publications Cr. Hrs. 3

The course will provide students with hands-on experience in working with scholarly writing. Students will develop their evaluation and critical analysis skills through the process of editing for publication all submissions to the Journal. May not be held with the former LAW 3820 or the former LAW 3822. Grading: Pass/Fail.

LAW 3826 Advanced Scholarly Publications Cr. Hrs. 3

The course will provide students with hands-on experience in working with scholarly writing. Students will develop their evaluation and critical analysis skills through the process of completing full substantive and copy edits on two or three articles during the course of the year. Working as Senior Editors students will develop their interpersonal skills by communicating with authors and by supervising and managing the work of Junior Editors. May not be held with LAW 3250 when titled "Advanced Scholarly Publications". Grading: Pass/Fail.

LAW 3828 Preventing Wrongful Convictions Cr. Hrs. 3

This course examines the causes of wrongful convictions, how to avoid them, detection mechanisms and remedies that should be provided under international instruments when a miscarriage of justice has occurred. The course starts by examining the environmental factors that nurture a miscarriage of justice, including the adversarial system of criminal justice. It then examines the role of the various players in the criminal justice system, and how each can inadvertently feed into a wrongful conviction - individually, or in combination with other factors. May not be held with LAW 3980 when titled "Preventing Wrongful Convictions".

LAW 3832 Legal Aid Clinic Cr. Hrs. 3

Students who are selected to act as student supervisors at the University Law Centre during the summer and who continue to actively serve the University Law Centre during their third year may, by successfully completing a written assignment approved by a faculty supervisor, opt for the Legal Aid Clinic. May not be held with LAW 3830. Grading: Pass/Fail.

LAW 3852 Private International Law Cr. Hrs. 3

It has to do with choosing what place to sue, what law applies when the law of more than one place might apply, and with the enforceability of judgments through foreign courts. May not be held with LAW 3850.

LAW 3862 Business Transactions: The Art of the Deal Cr. Hrs. 6

A study, involving practical exercises of certain aspects of solicitors' work, including interviewing, negotiating, counseling and memo writing.

LAW 3880 Municipal and Planning Law Cr. Hrs. 3

A general course in municipal law, including important aspects of land-use control and planning law. Although the course deals generally with the nature, structure, functions, and powers of the various units comprising the local level of government, the focus is primarily on municipal corporations. Topics covered include assessment and taxation, land-use planning and control, tort liability, judicial review of bylaws, qualification and accountability of councillors, and the law relating to expropriation, as well as some discussion of contemporary urban problems.

LAW 3940 Canadian Charter of Rights and Freedoms Cr. Hrs. 3

An in-depth study of the legal, philosophical and historical foundations of the Canadian Charter of Rights and Freedoms. Included is a study of both the American and European experience with Charters of Rights as well as Canadian case law.

LAW 3980 Current Legal Problems B Cr. Hrs. 3

Critical and constructive study, at an advanced level, of a significant major subject or set of topics.

LAW 3990 Externship Cr. Hrs. 12

The primary purpose of the Externship is to allow students an opportunity to work in a legal context where they gain professional knowledge and skills related to law, the legal profession and legal practice. Particular emphasis will be given to questions of professional responsibility and ethics. Within the workplace, students will be required to participate in various forms of exercises and to conduct work within an actual work setting where they face real day-to-day work situations under the supervision of practicing lawyers. Depending on the nature of the placement, they may be required to engage in classroom work. Registration restricted to students in Year 3. Grading: Pass/Fail.

Faculty of Management/I.H. Asper School of Business

Dean: Dr. Gady Jacoby

Associate Deans: Dr. Subbu Sivaramakrishnan (Undergraduate and International Programs); Dr. David Stangeland (Professional Programs and Executive Education); Dr. Zhenyu Wu (Research and Graduate Programs);

Dr. Lysa Porth (Strategic Partnerships and Administration)

Campus Address/General Office: 268 Drake Centre

Email Address:

Canadian Citizen/Permanent Resident Students:

B_Comm@UManitoba.ca

International Students: B_Comm_International@UManitoba.ca

Telephone: (204) 474 6388

Fax: (204) 474 7529

Website: UManitoba.ca/Asper

Academic Staff: Please refer to the Faculty website at: UManitoba.ca/Asper

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SECTION 5: Course Descriptions

See Listing of Course Descriptions with each Department Listing

5.1 Accounting and Finance

Includes subjects: ACC (Accounting), FIN (Finance), MIS (Management Information Systems)

5.11 Warren Centre for Actuarial Studies and Research

Includes subjects: ACT (Actuarial Studies)

5.14 Business Administration

Includes subjects: ENTR (Entrepreneurship/Small Business), GMGT (General Management), HRIR (Human Resource Management/Industrial Relations), INTB (International Business)

5.26 Interdepartmental Courses

Includes subjects: IDM (Interdisciplinary Management))

5.29 Marketing

Includes subjects: MKT (Marketing)

5.32 Supply Chain Management

Includes subjects: MSCI (Management Sciences), OPM (Operations Management), SCM (Supply Chain Management)

SECTION 1: Degree Programs Offered

1.1 Degree Programs Offered

| Degree | Years to Complete | Total Credit Hours |
|--|-------------------|--------------------|
| Bachelor of Commerce Honours | 4 | 120 |
| Bachelor of Commerce Honours (Co-operative Education Option) | 4.33+ | 120 |

NOTE: Students admitted to the Asper School of Business prior to September 2011 should refer to the Academic Calendar for the year in which they were admitted for a description of their program requirements.

1.2 Available Majors and Option

The following Majors may be used to complete the Bachelor of Commerce (Honours) program:

Indigenous Business Studies
Accounting
Actuarial Mathematics
Entrepreneurship/Small Business
Finance
Generalist
Human Resources Management/Industrial Relations
International Business
Leadership and Organizations
Logistics and Supply Chain Management
Management Information Systems
Marketing
Operational Research/Operations Management

A detailed explanation of the requirements for each major may be found in Section 4.2.

The Co-operative Education Option is the only option that may be used to complete the Bachelor of Commerce (Honours) program. Complete details on the requirements for the Co-operative Education Option are found in Section 4.3.

1.3 Accreditation

In 2009, the Asper School of Business received re-accreditation from AACSB International - The Association to Advance Collegiate Schools of Business.

In 2009, the Asper School of Business received accreditation from the SOA - Society of Actuaries.

These prestigious recognitions affirm the faculty's commitment to the continuous improvement of its courses and programs. The mission of the Asper School of Business is to provide management education in Manitoba by creating and disseminating leading edge knowledge and developing skills relevant to current and future managers in organizations operating in a global environment.

SECTION 2: Admission Requirements

2.1 Admission Requirements from High School and Previous Post-Secondary Institutions

The following is a summary of the admission requirements for the Bachelor of Commerce (Honours.). Equivalent courses completed at other universities will be considered for admission and transfer credit only if the courses have been taken within the last 10 years. All admission requirements, as well as application deadline dates and forms, are included in the Applicant Information Bulletin that is available from the [Admissions Office](#), 424 University Centre. This information is also posted on the University of Manitoba's website.

Direct Entry from High School

To be eligible to apply high school students must have:

1. Manitoba high school graduation, with five full credits at the Grade 12 level, in courses designated S (Specialized), G (General), or U (Dual Credit – University), with
2. A minimum 85% average over three courses: Pre-Calculus Math 40S or Applied Math 40S (Recommended Pre-Calculus 40S), English 40S, and one other 40S/U course, and
3. A minimum 60% in each of the three courses noted in point 2 above, and
4. Applicants may require a higher average than stipulated in point 2 to be successful in the annual competition for admission.

See Applicant Bulletin for complete details.

Track 1 Transfer Students

The following is a summary of the admission requirements for the Bachelor of Commerce (Honours.) for Track 1 transfer students. Equivalent courses completed at other universities will be considered for admission and transfer credit only if the courses have been taken within the last 10 years. All admission requirements, as well as application deadline dates and forms, are included in the Applicant Information Bulletin that is available from the Admissions Office, 424 University Centre. This information is also posted on the University of Manitoba's website.

Requirements (for Track 1 Transfer students)

- [ECON 1010 (3) and ECON 1020 (3)] (6)
- 6 credit hours from: Anthropology, History, Mathematics, Philosophy, Political Studies, Psychology, or Sociology (6)*
- Mathematics MATH 1520 (3) or MATH 1500 (3) or MATH 1230 (3)
- Statistics STAT 1000 (3) or STAT 1150 (3)

- A 3 credit hour Written English (“W”) course from a specific discipline (ARTS 1110, GMGT 1010 and GMGT 2010 are not considered to be from a specific discipline) (3)
- 3 credit hours of electives (3)**

Minimum 24 credit hours completed by April 30. Although 24 credit hours is the minimum requirement for admission, a full year course load would require 30 credit hours; therefore, students only taking 24 credit hours for admission will need to pick up an extra 6 credit hours of course work once in the Asper School of Business.

An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business.

If students want to complete 30 credit hours in Year 1, students are recommended to take 6 credit hours from this suggested list of recommended courses: GMGT 1010 plus one of GMGT 2060, GMGT 2070 or MKT 2210.

* Courses chosen for this requirement must be independent from courses taken to fulfill other degree requirements.

Critical Thinking (Philosophy) PHIL 1290 is a preferred elective choice

Students must achieve a minimum grade of “C” on each course listed above. Admission in this category is competitive.

See Applicant Bulletin for complete details.

Track 2 Transfer Students

Applicants who are missing one or more of the Track 1/Foundation course requirements may apply under Track 2 provided they have met the following criteria: completed a minimum of 24 credit hours; achieved a minimum admission GPA of 3.1; and achieved a minimum grade of “C” on each course comprising the 24 credit hours. Track 2 applicants are encouraged to complete all outstanding Track 1/Foundation required courses during their first year after admission to the Asper School of Business.

Minimum 24 credit hours completed by April 30. Although 24 credit hours is the minimum requirement for admission, a full year course load would require 30 credit hours; therefore, students only taking 24 credit hours for admission will need to pick up an extra 6 credit hours of course work once in the Asper School of Business.

*Students must achieve a minimum grade of “C” on each course listed above. Admission in this category is competitive.

NOTE: The prerequisite for MATH 1520 or MATH 1500 is a 60 per cent in Grade 12 Pre-Calculus Mathematics 40S or equivalent or a grade of “C” in the MSKL 0100 Mathematical Skills course taught by Extended Education; the prerequisite for MATH 1230 is a 70% in Pre-calculus Mathematics 40S or the MSKL 0100 Mathematical Skills offered by Extended Education (B).

NOTE: The prerequisite for STAT 1150 is a 70% in Pre-calculus Mathematics 40S or the MSKL 0100 Mathematical Skills offered by Extended Education (B).

See Applicant Bulletin for complete details.

Priority for Admission

Admission to the Asper School of Business is limited to an annual quota. The quota will be filled by selecting students from a rank-ordered list of applicants in the following order:

For September 2014:

First Priority –Direct Entry from High School applicants.

Second Priority - Track 1 applicants with an AGPA of 2.60 or greater in descending order of AGPA. Thirty spaces are reserved for the Track 2 applicants with an AGPA of 3.10 or higher in descending order of AGPA.

Third Priority - Track 2 applicants (who are not already admitted under the Second Priority) with an AGPA of 3.10 or greater in descending order of AGPA.

Fourth Priority - Track 1 applicants with an AGPA of 2.00 - 2.59 in descending order of AGPA.

Both Track 1 applicants and Track 2 applicants may require an AGPA well in excess of the minimum to be successful in the annual competition for admission.

Other requirements

High school prerequisite: Grade 12 Pre-Calculus Mathematics 40S (or equivalent, with a minimum 60 %)

The Written English and Mathematics requirements are satisfied by Track 1/Foundation courses.

Minimum AGPA for consideration: 2.0 for Track 1 applicants; 3.1 for Track 2 applicants.

Admission to the Asper School of Business is limited to an annual quota and is competitive.

The Bachelor of Commerce (Honours) program does not have a Mature Student Category for admission.

All students seeking admission to the Bachelor of Commerce (Honours) program must first complete either the Direct Entry, Track 1 or Track 2 requirements.

All students planning to enter the Bachelor of Commerce (Honours) program must obtain a minimum of 60 per cent in Grade 12 Pre-Calculus Mathematics 40S (or equivalent) in order to complete all degree requirements.

The Bachelor of Commerce also has a Special Consideration.

The Bachelor of Commerce also have Special Consideration and Canadian Indigenous Ancestry categories of admission. See Applicant Bulletin for complete details.

Advance Standing: Transfer and Second Degree Students

Students who do not meet the eligibility requirements for admission after their first year of University can spend another year (or more) in another faculty, complete the eligibility requirements, and then apply (or re-apply) for admission. Students who complete additional course credits beyond the Track 1/Foundation or Track 2 requirements are eligible to receive applicable advance standing upon admission to the Asper School of Business.

The following regulations apply to students who must (or choose to) take more than one year to qualify for admission to the Asper School of Business.

All transfer and second degree students will be required to:

Meet the admission requirements of Track 1 or Track 2 in the year of application.

Complete all 120 credit hours required in the Bachelor of Commerce (Honours) program, including the 24 credit hours that comprise the specific Track 1/Foundation course requirements, the Core requirements, the course requirements for one Major, Business Options, and Elective courses. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business. After admission to the Asper School, students in Track 2 must complete all outstanding courses listed in the Track 1/Foundation course requirements and achieve a minimum grade of "C" in each course.

Students who are admitted to the Asper School of Business who have completed more than the minimum 24 credit hours requirement of Track 1/Foundation course or Track 2 may be eligible to receive transfer credit for the additional work completed, provided the additional course work is creditable toward the degree requirements of the Bachelor of Commerce (Honours).

Students who are admitted to the Asper School of Business following the completion of another degree program are eligible to receive a maximum of 60 hours of transfer credit for applicable courses completed as part of their first degree. Students who, within their first degree, have more than 60 hours of transferable credits would be required to take substitute courses for credits in excess of the 60 hour limit on transfer.

Students who have a degree and in addition have completed further courses at the University of Manitoba which are applicable to the B. Comm.(Hons.) program that were not used for credit toward their first degree may receive additional transfer credit for that work.

Equivalent courses completed at other universities will be considered for admission and transfer credit only if the courses have been taken within the last 10 years.

Students are encouraged to contact a Undergraduate Program Advisor in the Undergraduate Program Office for information on how to optimize their transfer credit and advance standing.

See Applicant Bulletin for detailed information on admission requirements.

2.2 Admission Requirements from Joint Programs with Manitoba Colleges

The Asper School of Business has established Joint Programs with Red River College, Assiniboine Community College, University College of the North, and école technique et professionnelle. Graduates of the Business Administration Diploma (University Stream) from these four colleges are eligible to apply directly to the Asper School of Business.

Successful applicants will receive block transfer credit for their courses completed in the Business Administration Diploma and are required to complete specified courses at the University of Manitoba in order to receive the Bachelor of Commerce (Honours) degree. Requirements for the Joint Programs are listed in Section 4.

Admission to each Joint Program is limited to an annual quota and is competitive. Students must achieve a minimum grade point average of 3.00 on their Business Administration Diploma (University Stream) to be eligible for admission. Students must have graduated from the Diploma program within the last 5 years to be eligible for admission. Applicants are ranked in descending order of their grade point average and are admitted until the annual quota is met.

See Applicant Bulletin for detailed information on admission requirements.

SECTION 3: Academic Regulations

All students are asked to note that some academic policies and regulations are under review and are subject to change. Please check the Undergraduate Program Office for updated information.

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the Asper School of Business has regulations and requirements, published below, which apply specifically to its students and to non-business students taking business courses.

3.1 Changes in Program Requirements

Once students are admitted to the Asper School and have successfully completed any portion of the program, they will not be required to meet new course requirements subsequently stipulated for that portion of the program, whether the requirements be for the faculty or for an individual major.

NOTE: Students admitted prior to September 2011 should refer to the 2010-2011 Undergraduate Calendar for a description of their program requirements.

3.2 Evening Program

The Asper School of Business does not offer an evening program. Although a limited number of business courses may be offered in evening time slots during both the Regular and Summer Sessions, it is not possible to complete all the course requirements of the Bachelor of Commerce (Honours) program without recourse to daytime attendance.

3.3 Management Minor for Non-Business Students

The Management Minor consists of any 18 hours of credit in courses offered by the Asper School of Business. Entrance requirements and enrolment limits vary with a student's faculty of registration. Students planning to enrol in this minor should consult a student advisor in your home faculty.

3.4 Student Responsibility

The Bachelor of Commerce (Honours) program undergoes changes from time to time. As a result, some changes in program structure, content and regulations may be made for the current and upcoming academic year. Specific program information for the regular program, the co-operative education program option, Joint Programs, and 2+2 Programs may be obtained from the Undergraduate Program Office.

Student's Responsibility

It is the responsibility of all students to ensure that they follow the program of study as outlined in their chosen Major and that they meet all the requirements as specified by the University of Manitoba and the Asper School of Business.

When you are registering for courses, it is your responsibility to ensure that you have satisfied all prerequisite and concurrent course requirements.

It is your responsibility to ensure you have registered for the correct courses to satisfy the requirements of the Bachelor of Commerce (Honours) degree.

Read course descriptions carefully to make sure you are not registered for a course that "May Not Be Held With" a course you have already taken. You will not be allowed to apply both courses toward your degree requirements.

NOTE: Students admitted prior to September 2011 should refer to the 2010-2011 Undergraduate Calendar for a description of their program requirements.

3.5 Prerequisite Requirements

Prerequisite requirements must be met for entry into and continuance in the faculty.

Students must also meet all individual course prerequisites for further study in the program.

A passing grade is acceptable for prerequisite purposes for courses offered by the Asper School of Business unless a higher grade is called for in the course description.

3.6 Degree GPA Requirement for Graduation

Students Admitted in 2011 and Thereafter

Students admitted to the Asper School of Business in 2011 and thereafter must achieve a minimum degree GPA of 2.00 on all 120 credit hours required in the Bachelor of Commerce (Honours) degree program. Students must also achieve a passing grade of "D" or better in each course except for the individual courses required in the Track 1/Foundation course requirements that require a grade of "C" or better in each course.

All Track 1/Foundation courses, Core courses, Major courses, Business Options, and Electives applicable to the Bachelor of Commerce (Honours) degree requirements, as well as the grades achieved in each course, are transferred into the Asper School of Business and are included in the degree GPA. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business.

NOTE: Students admitted prior to September 2011 should refer to the 2010-2011 Undergraduate Calendar for a description of their program requirements.

3.7 Calculation of the Cumulative GPA

The computation of the cumulative GPA is the same as that described in the chapter, General Academic Regulations and Requirements.

3.8 Residency Requirement

All Business students must complete a minimum of 60 credit hours at the University of Manitoba in order to satisfy the residence requirement of the Bachelor of Commerce (Honours) degree.

Students participating in approved International Exchange Programs may be exempt from the 60 credit hour requirement. See Section 4.8.3 Academic Term Requirements.

NOTE: Students admitted to the Asper School of Business prior to the current calendar year should refer to the Academic Calendar for the year in which they were admitted for a description of their program requirements.

Students considering completing course work at another university are referred to the chapter, General Academic Regulations and Policy, and the section on Letter of Permission.

3.9 Time Limit for Completion of the Degree

The maximum period of eight years for completion of degree requirements will be reduced by one year for each block of 15 credit hours of advance standing received at the point of admission. This time limit applies to all students, whether full-time or part-time.

The maximum period for completion of degree requirements for students enrolled in the co-operative education option is currently under faculty review.

A student who does not complete all degree requirements within the time limit permitted will be required to withdraw from the faculty. Students may appeal to the Undergraduate Program Committee for a one year time extension; all appeals must be accompanied by a detailed letter explaining the student's circumstances and appropriate supporting documentation.

3.10 Probation Regulations

Maximum Number of Failures

Each student in the Asper School of Business is permitted a maximum of 15 credit hours of failures. If a student has more than 15 credit hours of failed courses and a degree grade point average (DGPA) of 2.00 or higher, the student will be placed on Probation and have a formal academic assessment of "On Probation" automatically placed on their academic record. Such students will be subject to the course load and performance requirements of the Probation Program.

Details and procedures concerning the Probation Program are available from the Undergraduate Program Office or see [Academic Matters](#) on the Asper School of Business website.

Probation Program

Students in academic jeopardy should carefully monitor each term's academic results. Students placed on Probation, will immediately be placed on "hold" in the Asper School of Business and have a formal academic assessment of "On Probation" added to their transcript.

Students who have been placed on Probation must process all registration through an Asper Program Advisor and will only be reinstated to regular student status in the Asper School of Business if all the specific conditions of the Probation Program have been met, including having met a minimum DGPA of 2.00.

If a student successfully completes the Probation Program, their student status is automatically reinstated to regular student status.

A student who fails the first Probation Program is permitted to enter a second Probation Program.

A student who successfully completes the Probation Program and who later fails an additional course in a subsequent term will immediately be placed on Probation again and be permitted another opportunity to enter the Probation Program.

Students are permitted a maximum of 2 consecutive attempts in the Probation Program. If a student fails the second consecutive Probation Program, the student will automatically have an academic assessment of "Required to Withdraw from Faculty" (WF) placed on their academic record. (See section 3.13 Required to Withdraw from Bachelor of Commerce (Honours) Program.)

Details and procedures concerning the Probation Program are available from the Undergraduate Program Office or see [Academic Matters](#) on the Asper School of Business website.

3.11 Repeating, Substituting and Extra Courses

Required Courses

A student who withdraws from a Core course or who wants to repeat a Core course because of a passing or failing grade, should, if possible, repeat that course during the following Fall or Winter Term. The student will be subject to Limited Access as per the University's Voluntary Withdrawal and Repeat Course Policies (see General Academic Regulations and Requirements). If a student repeats a course for which a grade was recorded, only the highest

of the grades achieved will be included in the computation of the degree GPA.

Students may not substitute another course for a Core course.

Major Courses

Students who achieve a grade of "F" in a Major course must either repeat that course or substitute another Major course if the Major requirements permit an alternate choice. Upon completion of the Major course, only the highest of the grades achieved will be included in the computation of the degree GPA. When a course is to be substituted, the student must seek the approval of the Undergraduate Program Office, in writing, prior to enrolling in the new course; failure to do so may result in a denial of the course substitution.

Electives and Business Options

Students who achieve a grade of "F" in an Elective or Option may either repeat that course or substitute another approved course in its place. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other Faculties and Schools, excluding the Asper School of Business. Upon completion of the course, only the highest of the grades achieved will be included in the computation of the degree GPA.

When a course is substituted for a failed Elective or Option, a student must request approval from the Undergraduate Program Office in writing prior to enrolling in the new course; failure to do so may result in a denial of the course substitution.

Students who want to supplement their Majors may take up to 12 hours of their Business Options from that area.

Voluntary Withdrawals and Voluntary Repeats

If a student voluntarily withdraws from a course and wants to enrol in the course in another term or if a student wants to voluntarily repeat any course in which a passing grade has been achieved (for example, in order to improve their degree GPA, or to meet a prerequisite requirement) they will be subject to all published University or Faculty registration restrictions (for example, students repeating courses will be subject to Limited Access as per the University's Voluntary Withdrawal and Repeat Course Policies; see General Academic Regulations and Requirements). After completion of a voluntary course repeat only the highest of the grades achieved will be included in the computation of the degree GPA. When a student wishes to voluntarily repeat a course, the student should seek written approval of the Undergraduate Program Office.

Extra or Substitute Courses

Students who would like to take courses extra to their degree are permitted, however students should seek approval of the Undergraduate Program Office prior to registration. When a course is extra to the degree but a student would like to substitute the course for another already in the degree, the student should seek written approval of the Undergraduate Program Office, prior to enrolling in the new course; failure to do so may result in a denial of the course substitution.

3.12 Completing Two Majors (Second Major)

Students Wishing to Complete Two Majors

Note the following Asper School of Business policy: "Students will not be given any registration priority for a second major". The Asper School of Business cannot guarantee that you will obtain space in the courses you would like for a second major.

Students who have completed all the requirements or who have all the courses in registration for a major are not permitted to formally declare a different major unless there is space in the courses needed to complete the different major. Students are not permitted to declare a different major in order to obtain space in full courses.

3.13 Required to Withdraw (WF) from the Bachelor of Commerce (Honours) Program

All students admitted in September 2015 and thereafter, in the I. H. Asper School of Business will have a formal academic assessment once they have completed 24 or more credit hours of coursework. After that point a student will have a formal academic assessment at the end of every Fall, Winter and Summer term.

At any point of formal academic assessment, if a student i) has a degree grade point average (DGPA) of less than 2.00 or ii) fails a second consecutive Probation Program, they will be required to withdraw from the Asper School of Business. A student in this situation will automatically have an academic assessment of "Required to Withdraw from Faculty" (WF) placed on their academic record.

Such a student will cease to be a student in the Asper School of Business but may apply for admission to another Faculty according to the rules of that unit. If such a student desires to gain entry back to the Asper School of Business, they must re-apply for admission and will have to meet the requirements for admission at the time of the new application.

3.14 Withdrawal from Bachelor of Commerce (Honours) Program for No Registration after Admission

- A student who does not register for any courses in the Fall or Winter term after admission will cease to be a student in the Asper School of Business. Such students must re-apply for admission if that is desired and will have to meet the requirements for admission at the time of the new application.
- A student who registers for course work in the Fall or Winter term after admission but subsequently voluntarily withdraws from all course work may be permitted to re-register at any time thereafter, subject to all faculty policies and requirements as they existed at the time of first admission and completing a signed declaration of non-attendance at another post-secondary institution. Such students should be aware of the time limit for completion of the degree.
- A student who applies for transfer to another university program and subsequently registers for courses will cease to be a student in the Asper School of Business. Such a student must re-apply for admission if that is desired and will have to meet the requirements for admission at the time of the new application.

3.15 Withdrawal from Individual Courses

Required Courses

Students in the Asper School of Business may withdraw without academic penalty from a required Core course provided they have not previously failed or withdrawn from that course and that they have met the Voluntary Withdrawal deadlines established by the university (see Deadline for Withdrawals in the Academic Schedule).

Electives and Business Options

Students may withdraw without academic penalty from an Elective or Option provided they do so before the final date for withdrawal (see Deadline for Withdrawals in the Academic Schedule). An Elective is any three or six credit hour course freely chosen by the student from courses

taught in the degree programs of other faculties and schools, excluding the Asper School of Business.

Authorized Withdrawals

Authorized Withdrawals from courses after the registration revision period in each term may be granted on the basis of medical and compassionate grounds. A medical certificate signed by a physician or other appropriate professional must document medical grounds. Appeals based on compassionate reasons and circumstances must be supported by appropriate documentation. Students requesting Authorized Withdrawals should contact the Undergraduate Program Office.

3.16 Withdrawal from the Asper Co-op Program

Details for all the Asper Co-op Program's requirements are found in Section 4.3 of the UG Calendar

Note: Specifically Section 4.3.6 Withdrawal from the Asper Co-op Program.

3.17 Maximum Course Load/Minimum Course Load

Students are not permitted to take more than 18 credit hours during an academic term without permission from the Undergraduate Program Manager.

Students enrolled in the Asper Co-op Option must register in a minimum of 9 credit hours between co-op work terms, unless written permission is obtained from the co-op office to complete back to back work terms (see Section 4.3.5 Academic Term Requirements for the Asper Co-op Program).

While on a co-op work term, a Cooperative Option student is not normally permitted to take more than three hours of academic credit and may not take more than one course at a time (see Section 4.3.4 Work Term Requirements for the Asper Co-op Program).

3.18 Course Selection and Requirements

All students are limited to a maximum of six credit hours of IDM 4050 Readings in Management, IDM 4070 Management Research 1, and IDM 4080 Management Research 2. These courses are considered Business Options, rather than as part of any Major.

ACC 3080 Canadian Income Taxation, FIN 3270 Personal Financial Planning, and FIN 3440 Real Estate Investments are also considered general Options. They are not part of any major.

3.19 Eligibility Requirements for Awards

To be eligible for the Dean's Honours List a student must complete a minimum of 12 credit hours of courses at the University of Manitoba during one academic term and achieve a term GPA of at least 3.50. Students participating in approved International Exchange Programs may be eligible for the Dean's Honour List.

To be eligible for most awards, a student must complete a minimum of 24 credit hours of courses at the University of Manitoba during an academic year consisting of consecutive Fall and Winter terms. Co-operative Education students are eligible to apply for most awards; please check the Asper Undergraduate Program web site and/or with the Financial Aid and Awards Office for more information on the eligibility requirements for Co-operative Education students.

The degree "With Distinction" will be awarded to all students graduating with the Bachelor of Commerce (Honours) Degree who attain a degree GPA of 3.80 or better on the following criteria: students admitted to the Asper School of Business in 2011 and thereafter will have their degree GPA

determined on the basis of all courses which form a part of the 120 credit hours required in the four-year degree program.

The University Gold Medal, Silver Medal and Bronze Medal in Business shall be awarded annually. The candidate for the one medal may be a graduate from either the Bachelor of Commerce (Honours) or the Bachelor of Commerce (Honours) [Co-operative Education Option]. Students graduating in October, February, and May are eligible for these awards in Business which shall be awarded annually at the spring convocation.

Students interested in the detailed terms of reference for the University Gold Medal in Business or who are interested in bursaries, awards and scholarships should contact the Undergraduate Program Office in Asper or the [University's Financial Aid and Awards Office](#).

3.20 Examination Regulations

The faculty adheres to the General University Examination Regulations Policy. For particular examination regulations, including deferred examinations, pertinent to the Faculty, students are referred to the pamphlet, Examination Regulations for the Asper School of Business, available from the Undergraduate Program Office. The faculty does not offer supplemental examinations. The faculty does not offer Challenge for Credit examinations.

3.21 Letter of Permission to Take Courses at another University for Transfer of Credit

Students wishing to complete courses at another institution for credit at the University of Manitoba will apply for written permission from the Registrar's Office prior to registering at the other institution. Students should apply for the Letter of Permission at least 4-6 weeks in advance.

To be eligible to take courses on a Letter of Permission, a Business student must:

- Be applying to take a course not currently offered by Asper (when applying to take a course transferred as an Asper course) in the term for which they are applying and
 - Have completed a minimum of 24 credit hours in the Asper School of Business in addition to any transfer credits received upon admission.
- Students (including Asper students on an exchange program) will not be granted a Letter of Permission for capstone courses of the Bachelor of Commerce (Honours) Program or capstone courses in its majors (regardless if the course is or is not being offered in any term).

See the on-line University of Manitoba "Academic Calendar and Catalog", Faculty of Management/I.H. Asper School of Business, Program and Graduation Requirements, Program Requirements for Majors, for the defined capstone courses of the Bachelor of Commerce (Honours) program and capstone courses in its majors.

Faculty Council Amendments Approved February 1, 2013.

3.22 Plagiarism, Cheating and Personation

The Asper School of Business has adopted the Senate definition and policy on plagiarism, cheating and personation as described in the chapter, General Regulations and Requirements. A student found guilty of participating in any of these activities is subject to serious academic penalty and possible prosecution under the Canadian Criminal Code.

3.23 Student Appeals of Academic Regulations

Except as otherwise noted, student appeals should be directed to the Secretary of the Undergraduate Program Committee in the Undergraduate Program Office. The Committee considers appeals from Asper students

who request special consideration in respect to rules and regulations governing their programs of study.

A certificate from an appropriate professional agency, such as the University Counselling Service or a licensed medical practitioner, should support appeals based on compassionate or medical problems.

3.24 Security of Academic Records

The Asper School of Business has adopted supplementary criteria and procedures on access to student academic records to supplement the university policy on Disclosure and Security of Student Academic Records. Copies of these policies are available in the Undergraduate Program Office. (Currently under review.)

3.25 Transcripts and Degree Parchments

Majors on Transcripts

After you graduate with your Bachelor of Commerce (Honours) degree, your formally declared major will appear on your University of Manitoba transcript. Your major will appear on your transcript once you have formally declared it on Aurora. Your major *will not* be listed on the Bachelor of Commerce (Honours) parchment.

If you complete the requirements of a second major within the credit hours required for the Bachelor of Commerce (Honours) degree, you may request that the second major also appear on your transcript after you graduate. See the Undergraduate Program Office in your graduating term to complete a request form.

Co-operative Education Option on Transcripts

If you have successfully completed the Co-operative Education Option, it will appear on your University of Manitoba transcript after you graduate with your Bachelor of Commerce (Honours) degree. The Co-operative Education Option will appear on your transcript once you have formally declared it on Aurora. Also, the Co-operative Education Option *will* appear on the Bachelor of Commerce (Honours) parchment.

SECTION 4: Program and Graduation Requirements

The Bachelor of Commerce (Honours) program comprises 120 credit hours of course work. The Co-operative Education Option also comprises 120 credit hours of course work plus a minimum of three 4-month approved work terms. The degree encompasses the following components which will be listed in detail below: Track 1/Foundation courses, Program Core courses (common to all students), Major courses, Business Options and Elective courses. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business.

Each student must declare at least one major and present a minimum Degree Grade Point Average of 2.00.

Detailed information on the degree regulations is found in Section 3, in the Undergraduate Program Office (268 Drake) or on the undergraduate web site at: umanitoba.ca/faculties/management/programs/undergraduate/

NOTE: Students admitted prior to September 2011 should refer to the 2010-2011 Undergraduate Calendar for a description of their program requirements.

4.1 Program Requirements for the Bachelor of Commerce (Honours) Program – Direct Entry, Track 1

and Track 2 (including students admitted from International Articulation Agreements)

All students admitted under these tracks (including International Students and International from 2+2 Joint Programs) will complete the Bachelor of Commerce Honours Program. The Bachelor of Commerce (Honours) degree is comprised of 120 credit hours and can be divided into the following components:

- The Track 1/Foundation Course Requirements (24 credit hours)
- The Core (54 credit hours)
- The Major (12 credit hours)
- Business Options (15 credit hours)
- Electives (12 credit hours)
- Business Option or Elective (3 credit hours)

These components comprise 120 credit hours; their associated limits and definitions are defined below.

NOTE: Students admitted to the Asper School of Business prior to the current calendar year should refer to the Academic Calendar for the year in which they were admitted for a description of their program requirements.

Track 1/Foundation Course Requirements

All students must complete the specified Track 1/Foundation course requirements. Direct Entry students from high school will complete the Track 1/Foundation courses in their first year. Track 1 students complete these requirements prior to their admission to the Asper School of Business. Track 2 students have completed 24 credit hours of university course work but are missing one or more of the specific Track 1/Foundation courses. Track 2 students should complete all outstanding Track 1/Foundation courses during their first year after admission to the Asper School of Business and must achieve a minimum grade of "C" in each outstanding Track 1/Foundation courses.

The Core

The CORE consists of 54 credit hours of specified mandatory courses from all four departments in this faculty as well as courses taught by the departments of Economics, Environment, Global Political Economy, Political Studies, Philosophy and Sociology. All students are required to complete the Core. The Core presents the essence of a business degree program. The majority of the Core courses are taken in Years 2 and 3 of the Bachelor of Commerce Honours Program.

The Major

Each student is required to complete the course requirements of one MAJOR. Each department and the Dean's Office have developed one or more Majors. Each Major consists of a 12 credit hours of course work specified by the department. Subject to demand and faculty resources, specialized Majors are available in Indigenous Business Studies, Accounting, Actuarial Mathematics, Entrepreneurship/Small Business, Finance, Generalist, Human Resources Management/Industrial Relations, International Business, Logistics and Supply Chain Management, Management Information Systems, Management of Organizations, Marketing, and Operational Research/Operations Management. A list of the Departments and the Majors they oversee is outlined below.

Students will normally choose a Major at the beginning of the third year of the program, following completion of many of the Core courses, which introduce the areas. Students have an opportunity to transfer from one Major to another, but this opportunity decreases as the student progresses in the program.

Business Options

This component of the program consists of a required number of Business courses, meaning courses taught by the Faculty of Management/I.H. Asper School of Business, freely selected by the student. These courses are referred to as Business OPTIONS. Students are required to complete 15 credit hours of Options. All Business Options courses must be at the 2000 Level or higher, except for language courses used as part of the International Business Major. Some students may want to take Options which will supplement their Major, whereas other students may prefer to broaden their educational base by selecting Business courses in another or several other Majors. Students who want to supplement their Majors may take up to 12 hours of their Options from that area. Students may complete a second Major as part of their Options requirements. Such students should consult with staff in the Undergraduate Program Office.

Electives (non-business courses)

This component of the program is the NON-BUSINESS ELECTIVE requirement; within this document it will be referred to as an Elective. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business. Students must complete 12 credit hours of Electives that meet the following criteria; a minimum of 6 credit hours of the Electives must be at the 2000 Level or higher plus a minimum of 6 credit hours of the Electives must comprise a freely chosen course that meets the Written English "W" requirement at any level.

Business Option or Elective

This component of the program consists of 3 credit hours which may be either a Business Option or Elective and it must be at the 2000 Level or higher.

Course Requirements for Direct Entry, Track 1 and Track 2 Students

The tables below list the Core courses that all Business students must complete. The courses are listed by year in a *suggested* sequence. Students normally complete the Core courses in the sequence shown.

To determine which additional courses to take each year (i.e., non-Core courses) students should consult the listing of course requirements for each year of their chosen Major.

| Course Requirements for Direct Entry, Track 1 and Track 2 Students | | | |
|---|--|---|--|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| ECON 1010 and ECON 1020 ¹ MATH 1520 or MATH 1500 or MATH 1230 ¹ STAT 1000 or STAT 1150 ¹ 6 credit hours of ANTH, HIST, MATH, PHIL, POLS, PSYC, SOC ^{1,2} | ACC 1100 GMGT 2010 ENTR 2030 | GMGT 3300 3 credit hours from International Business Requirement ⁸ 3 credit hours from Ethics ⁹ | GMGT 4010 |
| 3 credit hours of Written English "W" ^{1,3} | | | |
| GMGT 1010 ⁴ | 18 credit hours from ACC 1110, FIN 2200, HRIR 2440, MIS 2000, MSCI 2150, SCM 2160 ⁷ | | 3 credit hours from Alternative Management Studies ¹⁰ |
| 9 credit hours from GMGT 2060, GMGT 2070, MKT 2210 ^{4,5} | | 12 credit hours of Major courses | |
| | | 15 credit hours of Business Options ¹¹ | |

| | | | |
|--|---|--|-----------------|
| 3 credit hours of Electives ^{1,6} | 3 credit hours of Electives ¹² | 12 credit hours of Electives ¹² | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

- 1) Foundation Courses: All students regardless of admit type must complete these Foundation courses and achieve a minimum grade of "C" in each. These 24 credit hours are the minimum admission requirements for Track 1 transfer students. (See applicant information bulletin for details).
- 2) 6 credit hours from: Anthropology, History, Mathematics, Philosophy, Political Studies, Psychology, or Sociology. Courses chosen for this requirement must be independent from courses taken to fulfill other degree requirements.
- 3) Students are required to complete a three credit hour course to satisfy the Written English "W" requirement, minimum grade of "C". The "W" course for the Foundation course requirement must be from a specific discipline (i.e., ARTS 1110, GMGT 1010 and GMGT 2010 are not considered to be from a specific discipline and therefore do not fulfil the Track 1/Foundation Written English course requirement). Courses that satisfy the Written English requirement are listed in the chapter, General Academic Regulations and Policy.
- 4) GMGT 1010, GMGT 2060, GMGT 2070 and MKT 2210 can be taken in Year 2 if entering with 24 credit hours.
- 5) It is an option to complete either 3 credit hours in Year 1 and 6 credit hours in Year 2 or all 9 credit hours in Year 2.
- 6) PHIL 1290 Critical Thinking is a preferred elective in Year 1.
- 7) 12 credits from the following core courses are to be completed in Year 2: ACC 1110, FIN 2200, HRIR 2440, MIS 2000, MSCI 2150, SCM 2160. Choose courses according to prerequisite requirements in your major. The remaining 6 credits are completed in the third year.
- 8) International Business Requirement: Choose one of the following: ACT 4250, INTB 2200, FIN 3450, HRIR 4520, MKT 3300, MKT 3240 (Cross-Cultural Brand Management topic only) or SCM 3230.
- 9) Ethics requirement: Complete one of the following: PHIL 2290, PHIL 2750, PHIL 2790, PHIL 2830, GMGT 3030 or GMGT 3581. If a 6 credit hour course is chosen, 3 credit hours will count as Electives.
- 10) Alternative Management Requirement: Complete one of the following: AGRI 3030 (Cooperatives in Business and Community topic only), ECON 2540, LABR 2300, NATV 3120, NATV 4220, NATV 4320, POLS 3250, POLS 3270, SOC 3838 or any one of the following Asper courses: GMGT 4210, LEAD 3030, or MKT 3246 (or the former MKT 3240 when titled Sustainability Marketing Topic only). Take careful note of any course prerequisites in your timetable planning. Course prerequisites will be waived for Asper students in the following courses: NATV 3120, NATV 4220 NATV 4320, and POLS 3270. Students must contact an Asper Program Advisor before registration for the prerequisite waiver. May be taken in Year 3 or Year 4.
- 11) 15 credit hours of Business Options which must be at the 2000 Level or higher, except for language courses used as part of the International Business Major. 12 credit hours of Business Options may be used to complete an optional second major.
- 12) The 15 credit hours of electives (taken over Years 2, 3 and 4) must include 3 credit hours at the 2000 level or higher, 3 credit hours of Written English "W", 6 credit hours at any level, and 3 credit hours of Business Options or electives at the 2000 level or higher.

Course Key

All Core courses are taught by the Asper School of Business except the following:

| SUBJECT | | Cr. Hrs. |
|--------------------------------------|--|----------|
| Agriculture and Food Sciences | | |
| AGRI 3030 | Modern Topics in Agriculture 1 (see note 10 above) | 3 |
| Economics | | |
| ECON 2540 | Political Economy 1: Production and Distribution | 3 |
| Labour Studies | | |
| LABR 2300 | Workers, Employer and the State | 3 |
| Native Studies | | |
| NATV 3120 | Exploring Indigenous Economic Perspectives | 3 |
| NATV 4220 | Environment, Economy and Aboriginal Peoples | 3 |
| NATV 4320 | Indigenous Economic Leadership | 3 |
| Political Studies | | |
| POLS 3250 | International Political Economy | 3 |
| POLS 3270 | Theories of the Capitalist World Order | 3 |
| Philosophy | | |
| PHIL 2290 | Ethics and Society | 6 |
| PHIL 2750 | Ethics and the Environment | 3 |
| PHIL 2790 | Moral Philosophy | 6 |
| PHIL 2830 | Business Ethics | 3 |
| Sociology | | |
| SOC 3838 | Ecology and Society | |

4.2 Program Requirements for Majors

Students who intend to complete a second major should note that when a course is applicable to two different majors, that course may be used to satisfy only one set of major requirements.

Capstone Courses for the Faculty and its Majors: The capstone course for the Faculty is GMGT 4010. The capstone course for a major will be listed with the major details below (if none is listed then there is no course defined as a capstone course for that major).

NOTE: Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the requirements for the majors. Université de Saint-Boniface courses end in the number "1" (e.g. ACC 1101).

Indigenous Business Studies

The Major consists of NATV 3120 and NATV 4320 plus three credit hours from ACC 3040, ENTR 3100, ENTR 4100, FIN 3270, FIN 3470, HRIR 4410 or LEAD 2010 plus either three more credit hours from any course not taken from the list of ACC 3040, ENTR 3100, ENTR 4100, FIN 3270, FIN 3470, HRIR 4410 or LEAD 2010 or any 3 credit hours from NATV 2100, NATV 2110, NATV 2220, NATV 3100, NATV 3160, NATV 3310, NATV 3360, NATV 3370, NATV 4200 OR NATV 4220.

Effective September 2019, along with all existing course prerequisites, the mandatory core course ENTR 2030 (C) has been added to the following Entrepreneurship courses in this major: ENTR 3100 and ENTR 4100. The prerequisite to ENTR 2030 is GMGT 1010 (D).

NOTE: Students interested in the Indigenous Business Studies Major are encouraged to discuss course options with an Asper Program Advisor as not all courses are offered every year.

Accounting

As of September 2018: The Major consists of: ACC 2010 (C), ACC 2020 (C), ACC 3040 (C) and ACC 4030 (C) and a requirement that students have a minimum of C+ in the prerequisite courses of ACC 1100 and ACC 1110.

The prerequisite for ACC 2010 is ACC 1100 (C+), for ACC 2020 is ACC 2010 (C) and FIN 2200 (C), for ACC 3040 is ACC 1110 (C+) and for ACC 4030 is ACC 2020 (C) and FIN 2200 (C).

Actuarial Mathematics

The Major consists of any 12 hours from ACT 2020, ACT 2120, ACT 3130, ACT 3230, ACT 3340, ACT 3630, ACT 4010, ACT 4020, ACT 4030.

NOTE: ACT 4020 and ACT 4030 collectively satisfy the requirement for the Short-Term Actuarial Mathematics Exam by the Society of Actuaries.

Students admitted to the Asper School of Business prior to September 2018 may use ACT 4630 toward the 12 credit hours of the Actuarial Mathematics major, but only if the course was taken prior to September 2018.

Students admitted to the Asper School of Business prior to September 2014 should refer to the Academic Calendar for the year in which they were admitted for the requirements for this major.

***Prior to registration, all students interested in or enrolled in Actuarial Mathematics should consult the Director or an Undergraduate Program Advisor for program planning advice.

Students are required to attain a minimum grade of "C+" in all 12 credit hours of Actuarial courses that will contribute to the Major in order to graduate with an Actuarial Mathematics Major.

Students are also advised that the following 15 credit hours of courses are required (and *another* 3 credit hours are recommended) to obtain the Actuarial Mathematics Major:

MATH 1300 [or MATH 1220] (C) and MATH 1700(B) [or MATH 1232 (C)]. These courses can be used to satisfy Track 1/Foundation courses or alternately as electives in Year 1. Note: Both MATH 1300 and MATH 1700 are prerequisite to MATH 2720 which is required for ACT 2120.

MATH 2720 [D]. Students declaring Actuarial Mathematics as their first major may take this course as either a Business Option or non-Business Elective.

STAT 1000 [or STAT 1150] and STAT 2400 and STAT 3400. STAT 2400 (C). Note: STAT 1000 [or STAT 1150] is a prerequisite to STAT 2400, and STAT 2400 is needed for ACT 2120, and is a prerequisite for STAT 3400, which is needed for ACT3130, ACT 3630, ACT 4020 and ACT 4030. These courses can contribute to the 2000+ Level elective requirement of the degree.

Plus STAT 2000 (or STAT 2150) is a recommended elective. NOTE: STAT 2000 [or STAT 2150] is a prerequisite for FIN 3410.

Entrepreneurship/Small Business

The Major consists of: ENTR 3100, ENTR 4100, and FIN 3240, plus one of the following: ENTR 3102, ENTR 3104, or ENTR 3106.

Effective September 2019, along with all existing course prerequisites, ENTR 2030 (C) will be added to the following Entrepreneurship courses: ENTR 3100, ENTR 3102, ENTR 3104, ENTR 3106, and ENTR 4100. The prerequisite to ENTR 2030 is GMGT 1010 (D).

Finance

The major consists of 12 credit hours from: FIN 3410*, FIN 3480*, and FIN 4400** plus one of FIN 3400, FIN 3420, FIN 3450, FIN 3460*, FIN 4240, FIN 4250, FIN 4260, or FIN 4270 and a requirement that students have a minimum of C+ in the prerequisite course of FIN 2200.

*The prerequisites for FIN 3410, FIN 3460 and FIN 3480 are: [FIN 2200 (C+), MATH 1220 (C) or MATH 1300 (C) or MATH 1310 (C)], and [STAT 2000 (C) or STAT 2150 (C)].

****The prerequisite for FIN 4400 is FIN 3480 (D).**

Finance students are also required to take MATH 1300 (C) or MATH 1310 (C) and STAT 2000 (C) as part of the electives in their program since they are part of the prerequisite for the finance courses as stated above.

Capstone Course: FIN 4400.**

Generalist

The Major consists of one course from the required list of courses from four different Majors (i.e., Options that are not part of a Major's required course requirements are not eligible for the Generalist Major).

Human Resources Management/Industrial Relations

The Major consists of: HRIR 3450 plus three of the following: HRIR 4410, HRIR 4420, HRIR 4480, HRIR 4520 **OR** HRIR 3450 plus two of the following: HRIR 4410, HRIR 4420, HRIR 4480, HRIR 4520, plus one of the following: HRIR 3430, LABR 3010, LABR 3060, LABR 3070, LABR 3130, and LABR 3140.

Students entering the second year of the four-year program are advised to take HRIR 2440 since it is a prerequisite to advanced courses in the area.

International Business

The Major consists of: FIN 3450, INTB 2200, HRIR 4520, and MKT 3300.

One of the above four courses may be used in the core program; therefore the major will be comprised of the remaining three courses plus one course from the following list: MKT 3240 Special Topics in Marketing (Cross-Cultural Brand Management topic only), ACT 4250 Managing Insurance Operations in the International Business Environment or SCM 3230 Global Chain Management.

Students majoring in International Business are permitted to take 12 credit hours of a foreign language and/or courses with an international focus from an approved list and have these non-business courses count as Business Options. The list is available in the Undergraduate Program Office.

Leadership and Organizations

The Major consists of 12 credit hours from: GMGT 3010, LEAD 3010, LEAD 3020, LEAD 3030, LEAD 3040, LEAD 4010 AND LEAD 4020.

Students entering the second year of the four year program are advised to take GMGT 2070 and GMGT 2060 as they are prerequisites to some of the advanced courses in the major.

Students entering second year are strongly recommended to take LEAD 2010 prior to taking LEAD 4020 and speak with an Asper Student Program Advisor for course planning advice.

Logistics and Supply Chain Management

The Major consists of: SCM 2210, SCM 2230, SCM 3360 plus one of the following: SCM 2220, SCM 2240, SCM 2250, SCM 2260, SCM 3230, SCM 3250, SCM 3260, SCM 3270, SCM 3280, SCM 3630, SCM 4250 (not to be held with the former SCM 4240).

Recommended Business Options/Electives in this area include: MIS 3500, MIS 3510, INTB 2200, HRIR 3450, GMGT 3160, GMGT 4160, MSCI 3400, IDM 4050, IDM 4070, IDM 4080, MKT 3220, MKT 3340, GEOG 3800, ECON 2010, ECON 3010.

Management Information Systems

The Major consists of MIS 3500, MIS 3510, MIS 3520, and MIS 4500 and a requirement that students have a minimum C+ in the prerequisite course of MIS 2000.

MIS 3510 (D) and COMP 1010 (C) are prerequisites for the required MIS 3500 course.

Management of Organizations (Discontinued/Deleted)

NOTE: Students previously pursuing the major may have to consult with the Business Administration Department Head for information and feasibility on completing the major.

Marketing

For students admitted in September 2019 and onward the Major consists of MKT 3220, MKT 3230, MKT 3390 and MKT 4210.

Students admitted to the Asper School of Business prior to September 2019 should refer to the Academic Calendar for the year in which they were admitted for the requirements for this major.

Students admitted to the Asper School of Business prior to September 2019 and following the old Marketing Major will be permitted to use MKT 3248 as one of the list of additional Marketing courses for their major.

In addition to the 12 credit hours required for the major, Marketing students may take up to an additional 12 credit hours of courses from the

Marketing Department as business options (see section 4.1 Business Options).

Capstone Course: MKT 4210.

Options available in this area are ACC 3530 and MIS 4250.

Students interested in pursuing the Management Information Systems Major are encouraged to take MIS 2000 in the second year of the four-year program since it is a prerequisite to advanced courses in the area.

Students interested in pursuing the Management Information Systems Major are also encouraged, but not required, to complete COMP 1020.

Capstone Course: MIS 4500.

Operational Research/Operations Management

The Major consists of any 12 hours from MSCI 3400, OPM 3650, OPM 3660, OPM 3670, MSCI 4220, OPM 4620.

Prior to registration, all students enrolled in Operational Research/Operations Management should consult the Department Head or a Undergraduate Program Advisor for program planning advice.

4.3 Program Requirements for the Asper Co-op Program

Contact and Program Information
 Director: Kelly Mahoney
 Asper Co-op Office Room 254 Drake
 Telephone: 204-474-8521
 Email: aspercoop@umanitoba.ca

The Asper School of Business offers a co-operative education option designed to complement and enrich the academic program with work experience. The co-op work terms provide students with practical experience, assistance in financing their education, and guidance for future career specialization.

All students must complete all 120 credit hours of the program including the Core, one of the Majors listed above in Section 4.2, as well as the Option and Elective course components. Students who intend to complete the Asper Co-op Program must also complete a minimum of three (3) 4-month co-op work terms. Students admitted from September 2011 and who successfully complete the minimum three co-op work terms can combine the work terms together to satisfy 3 credit hours of Business Options.

4.3.1 Entrance Requirements and Selection Criteria for the Asper Co-op Program

Those applying to the Asper Co-op Program must have completed or obtained:

- All Bachelor of Commerce (Honours) admission requirements as specified in the University of Manitoba Undergraduate Calendar, the Asper School of Business.
- A minimum degree grade point average of 3.0 upon assessment of the Asper School of Business Bachelor of Commerce (Honours) Program.
- A minimum of 45 credit hours in the Bachelor of Commerce (Honours) Program, before commencing the student's first work term, and no fewer than 39 credit hours remaining in the Bachelor of Commerce (Honours) Program before the commencement of the first co-op work term.

In addition to the above requirements:

- An interview with the Co-op Office will be required for admission to the Asper Co-op Program and
- Applicants for the Asper Co-op Program will be evaluated based on a complete application. (see Section 4.3.2 Application Requirements for the Asper Co-op Program).

Note: Each year, 5 seats will be allotted to the Canadian Indigenous Ancestry Category. This category is intended for all First Nations, Métis, and Inuit applicants who have attained a minimum DGPA of 2.75 and met all other requirements for application to the Asper Co-op Program. Students wishing to be considered in the Canadian Indigenous Ancestry Category must indicate so in the appropriate section on the Asper Co-op Program Application Form. If students do not indicate this on the application form, they will not be eligible for consideration within this category. All applicants admitted under this category are required to register with the Indigenous Business Education Partners (IBEP) for a period of at least two academic terms following admission. If you are unsure whether to apply under this category, please consult with the Indigenous Business Education Partners (IBEP), 350 Drake Centre, phone (204) 474-7401. Proof of Indigenous Ancestry will be required to register for IBEP. Unfilled seats in

this category will not be filled from outside the category and will not be transferred for use in future years.

If a student has been found to have deliberately falsified information in the application for the Asper Co-op Program, the matter will be immediately reported to the Associate Dean, Undergraduate Program as an allegation of academic dishonesty and handled according to the University Student Discipline Bylaw.

If, prior to acceptance into the Asper Co-op Program, it is found that the student has had an allegation of academic dishonesty upheld against them the student will no longer be eligible for entrance to the co-operative education option.

Students are advised that satisfying the minimum entrance requirements does not guarantee a place in the Asper Co-op Program. In the event that the demand for placements exceeds the number of places available or that appropriate levels of staffing of the co-op office are not available, a cap may be placed on the number of students accepted into the Asper Co-op Program. In such situations, the Asper School of Business reserves the right to determine and select the best qualified applicants.

4.3.2 Application Requirements for the Asper Co-op Program

In addition to the minimum requirements of the Asper School of Business, applicants for the Asper Co-op Program will be evaluated based on a complete application. This will include the following:

- A completed co-op application form and
- A completed Consent of Release of Personal Information form and
- A statement of purpose: The applicant must submit a statement outlining his/her motivations for participating in the Asper Co-op Program, and
- A group interview conducted by the Co-op Office.

Upon completion of the co-op application form and the group interview, each applicant's academic standing is verified by the Undergraduate Program Office.

Applications to the Asper Co-op Program must be received prior to the application deadline specified on the Co-op website (www.umanitoba.ca/asper/co-op), except by special permission from the Program Director. All completed applications must be submitted directly to the Co-operative Education Program Office.

4.3.3 Structure and Sequencing for the Asper Co-op Program

The Asper Co-op Program consists of both academic terms and co-op work terms.

Each academic term and each co-op work term will commence in January, May or September.

The sequence of academic terms and co-op work terms is variable to suit the needs of students and co-op employers and will be approved by the co-op office.

Students are expected to follow the academic/work term sequence defined by the Asper School of Business from admission through to graduation.

4.3.4 Work Term Requirements for the Asper Co-op Program

The Asper Co-op Program will include 12 months spent in co-op work terms with a co-op office approved employer. Normally, each co-op work term will be completed with one employer. Typically, the co-op work terms will be taken in three, 4-month-long co-op work terms; however, other schedules may also be approved on an as-needed basis.

A minimum grade of "C" is required in each co-op work term course. Students who fail to meet the minimum "C" grade in each of their co-op work term courses will be required to withdraw from the co-operative education program and have the following academic assessment noted on their transcript "Required to Withdraw from the Asper Co-op Program".

Asper Co-op students are required to submit at least three written co-op work term reports on their work term activities. These reports are due at times designated by the co-op office. The co-op office will provide students with instructions regarding the content and format requirements of the co-op work term reports.

Indications of unsatisfactory performance by a student on a work term will be thoroughly investigated by the co-op office. As a result of the investigation, if benefits from further professional training are questionable, the student may be required to withdraw from the Asper Co-op Program and the following academic assessment noted on their transcript "Required to Withdraw from the Asper Co-op Program". The student would then be assessed for eligibility to enter the regular B. Comm. (Honours) program (see Section 4.3.6 Withdrawal from the Asper Co-op Program for more information).

While on a co-op work term, a Cooperative Option student is not normally permitted to take more than three hours of academic credit. Students wishing to enroll in more than 3 credit hours while on a co-op work term must apply to the Co-op Faculty Advisor for permission to do so, including furnishing a letter from their co-op employer indicating that the employer approves of this exception; if approved a student may not take more than six hours of academic credit while on a work term and may not take more than one course at a time.

4.3.5 Academic Term Requirements for the Asper Co-op Program

Coursework requirements of the Asper Co-op Program are equivalent to the coursework requirements of the B. Comm. (Hons.) program with exception that each Co-op Work Term (Course IDM 2982, IDM 3982, IDM 4982) will receive 1 credit hour for each co-op work term course passed. Students passing all three co-op work term courses will be permitted to use the three co-op work term courses together as equivalent to three (3) credit hours of a 2000+ level business option.

Students enrolled in the Asper Co-op Program are required to maintain satisfactory progress toward their B. Comm. (Honours) degree and be registered in a minimum of 9 credit hours between co-op work terms after admission to the Asper Co-op Program, unless back to back work terms have been approved by the co-op office.

While on a co-op work term, a Cooperative Option student is not normally permitted to take more than three hours of academic credit (see section 4.3.4 Work Term Requirements for the Asper Co-op Program); choosing to do so does not reduce the requirement of enrolment in a minimum of 9 credit hours in each academic term unless written permission is obtained from the co-op office.

Students whose degree G.P.A. falls below 2.0 in any given term are subject to withdrawal from the B. Comm. (Hons) program as per section 3.13 Required to Withdraw from the Bachelor of Commerce (Honours) Program in the Asper Undergraduate Calendar.

To continue in the Asper Co-op Option a student's performance will be evaluated following each academic term to ensure standards are met for continuance in the Asper Co-op Program. The student must meet all academic degree and individual course prerequisites for further study, departmental continuation and graduation requirements. Continuation is also contingent upon satisfactory performance on co-op work terms (see Section 4.3.4 Work Term Requirements for the Asper Co-op Program).

4.3.6 Withdrawal from the Asper Co-op Program

Students may be required to withdraw from the Asper Co-op Program for any of the following reasons:

- Failure to maintain the minimum academic requirements of the Asper School of Business,
- Failure to maintain the minimum credit hour requirements of the academic term in the Asper Co-op Program,
- Failure to achieve a minimum grade of "C" on any work term,
- Unsatisfactory performance in the work place during a co-op work term (see section 4.3.4 Work Term Requirements for the Asper Co-op Program),
- Failure to observe the ethical standards of the Asper School and the University in place at the time; including being found guilty of academic dishonesty, or
- When, in the opinion of the Co-op Director and Co-op Faculty Advisor, the student does not exhibit sufficient qualities of ability, skills, aptitudes, attitudes, diligence or motivation to complete the Asper Co-op Program successfully.

Students who have been required to withdraw from the Asper Co-op Program for either academic assessment reasons or other reasons will have the following academic assessment placed on their transcript: "Required to Withdraw from the Asper Co-op Program".

A student who withdraws after participating in the recruitment period or after accepting a position with an employer for a co-op work term, without written approval of the Co-op Faculty Advisor or Co-op Director, will be withdrawn from the Asper Co-op Program and have the following academic assessment noted on their transcript "Required to Withdraw from the Asper Co-op Program".

Students who wish to withdraw voluntarily from the Asper Co-op Program may do so by written letter to the Co-op Director at any time prior to participating in the recruitment period through applications and/or interviews and prior to accepting a position for a co-op work term. Students may be granted permission to revert back to the regular Bachelor of Commerce (Honours) program without being required to withdraw.

4.3.7 Appeals for Exceptions to Academic and Non-Academic Regulations and Appeals in the Asper Co-op Program

Appeals to academic regulations relating to the Asper Co-operative Education Option (i.e., those relating to the entrance, continuing, and graduation requirements) will be processed in a similar manner to any other request for exception to academic regulations. Normally, the student's written request, accompanied by any supporting documentation, e.g. written notice of medical or compassionate circumstances, and a written recommendation from the Co-op Faculty Advisor with or the Co-op Director, will be directed to the Undergraduate Program Manager for either immediate disposition or to forward on to the Undergraduate Program Committee for its consideration.

Appeals to non-academic program-related issues should be resolved by contact with the Co-op Director, or the Co-op Faculty Advisor. Appeals related to non-academic entrance or continuance issues are the responsibility of the Co-op Director. If these appeals are not resolved to the student's satisfaction, the student may appeal in writing to the Undergraduate Program Committee through the Undergraduate Program Manager.

4.3.8 Graduation from the Asper Co-op Program

B. Comm.(Hons.) Cooperative Option students who are required to revert or voluntarily revert to an alternative degree program must fulfil all academic requirements of that degree.

To graduate from the Asper Co-op Program, students are required to meet the Bachelor of Commerce (Honours) Program graduation requirements as outlined in the Asper School of Business section of the University of Manitoba Undergraduate Calendar, plus completion of twelve months of co-op work terms (or a minimum of 3 approved co-op work terms) with each Co-op work term course having been assigned a "C" grade or better. Students passing all three co-op work term courses will be permitted to use the three co-op work term courses together as equivalent to three (3) credit hours of a 2000+ level business option.

4.4 Program Requirements for the Asper School of Business/Red River College Articulation Agreement

Under the Asper School of Business/Red River College Articulation Agreement, graduates of the Business Administration Diploma at Red River College may seek admission to the Bachelor of Commerce (Honours) program at the University of Manitoba. Applicants must have graduated from the Business Administration Diploma program at Red River College within the past 5 years to be eligible for admission. Students must have a minimum of 42 hours of transferable credits to be eligible for admission; a maximum of 54 credit hours from Red River College can be transferred.

Admission under the Asper School of Business / Red River College Articulation Agreement is limited to an annual quota and is competitive. Applicants satisfying the minimum entry requirements should realize that they are eligible for consideration, but that selection is academically competitive and within the discretion of the Asper School of Business.

Specific Required Course Work at Red River College

To be considered for admission, applicants must have completed the following courses at Red River College with a minimum grade of "C":

ECON-1022 Microeconomics
ECON-2000 Macroeconomics
MATH-1020 Statistics
COMP-1975 Business Computing

To be eligible for admission, applicants must achieve a minimum grade point average of 3.00 on their RRC Business Administration Diploma and that GPA must be equal to or greater than the competitive GPA of those admitted to the Asper School of Business under Track 1.

NOTES:

1. Red River College applicants are admitted solely based on their college coursework.
2. The maximum allowed external transfer, from all sources combined, is 60 credit hours. If the student has additional post-secondary work other than from Red River College, it will be assessed for potential transfer credit.
3. If Psychology (SOSC 3001) and/or Sociology (SOSC 3007) are taken at Red River College, the student must achieve a minimum grade of "C" in the course to receive transfer credit to the Bachelor of Commerce (Honours) program.
4. All applicants whose primary language is not English and who do not qualify for a waiver under the University of Manitoba's English language proficiency regulations will be required to demonstrate proficiency in English through one of the options listed at the University of Manitoba Admissions web site.
5. All program requirements are listed in Section 4.1 of the Calendar. The specific courses that must be completed after admission and transfer credit assignment will vary from student to student. Please see an Asper Program Advisor for individual advice in this regard.

6. Students admitted to the Asper School of Business prior to the current calendar year should refer to the Academic Calendar for the year in which they were admitted for a description of their program requirements.

4.5 Program Requirements for the Asper School of Business / Assiniboine Community College Joint Program

Prior to admission to the Asper School of Business/Assiniboine Community College Joint Program students must complete the Business Administration Diploma (University Stream) at Assiniboine Community College with a minimum cumulative grade point average of 3.00. Students must have graduated from the Diploma program within the last 5 years to be eligible for admission. Admission is limited and competitive. Following admission to the Asper School of Business, students in the Joint Program will be required to complete 66 credit hours to earn the Bachelor of Commerce (Honours) degree. The 66 credit hours can be divided into the following components: the Core, the Major, Business Options, and Elective courses. These components and their associated limits are defined below.

NOTE: The Joint Program is currently under review; transfer credit details are subject to change. Please contact the Asper Undergraduate Program Office, Room 268 Drake, for information and details on the admission requirements and transfer credit processing.

NOTE: Students admitted to the Asper School of Business prior to the current calendar year should refer to the Calendar for the year in which they were admitted for a description of their program requirements.

The Core

The CORE comprises 39 credit hours of the 66 required in the Joint Program. The Foundation courses (12 credit hours) should be taken in the first year in the Asper School. Students must achieve a minimum "C" grade in each Track 1/Foundation course. The Program Core courses (27 credit hours) may be taken at any point in the program, but the course GMGT 4010 must be taken in the student's final term. Core courses are listed below in Course Requirements for ACC Joint Program Students.

The Major

Each student must complete the course requirements of one MAJOR. Each Major will consist of a 12 credit hour unit of course work. Information on completing a Second Major is listed in Section 3.12. The Majors are listed Section 4.2.

Students may begin taking courses for their major as soon as prerequisites are met. Students have an opportunity to transfer from one Major to another, but this opportunity decreases as the student progresses in the program.

Note: Students in the Asper School of Business/Assiniboine Community College Joint Program who want to major in Finance will be required to take FIN 2200 as one of their Business options. Likewise, students who want to major in Marketing must take MKT 2210 as one of their Business Options.

Business Options

This component of the program consists of a required number of Business courses freely selected by the student. These courses are referred to as Business OPTIONS. Students must take 12 credit hours of Business Options. All Business Options courses must be at the 2000 Level or higher, except for language courses used as part of the International Business Major. Some students may want to take Business Options which will supplement their Major, whereas other students may prefer to broaden their educational base by selecting Business courses in other Majors. Students who want to supplement their Majors may take up to 9 hours of their Business Options

from that area. Students may complete a second Major as part of their Business Options requirements. Such students should consult with staff in the Undergraduate Program Office.

Electives

This component of the program is the ELECTIVE requirement. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business. Students must 3 credit hours of Electives that is a freely chosen course that meets the Written English "W" requirement at any level.

Course Requirements for ACC Joint Program Students

The course requirements for the Asper School of Business/Assiniboine Community College Joint Program are as follows.

Students should register for the Track 1/Foundation courses in their first year at the University of Manitoba and must achieve a minimum "C" grade in each course.

Foundation Courses Cr. Hrs.

- 6 credit hours from: ANTH, HIST, MATH, PHIL, POLS, PSYC OR SOC (See Note 1) (6 credit hours)
- MATH 1520 or MATH 1500 or MATH 1230 (see Note 2) (3 credit hours)
- Written English Course (see Note 3) (3 credit hours)

Program Core Requirements

- ENTR 2030 (3 credit hours)
- MIS 2000 (3 credit hours)
- GMGT 1010 (3 credit hours)
- MSCI 2150 (3 credit hours)
- SCM 2160 (3 credit hours)
- GMGT 4010 (must be taken in final term) (3 credit hours)
- Ethics (see Note 4) (3 credit hours)
- Alternative Management Studies (see Note 5) (3 credit hours)
- International Business (see Note 6) (3 credit hours)

Overall Program Requirements Cr. Hrs.

- Track 1/Foundation Courses (12 credit hours)
- Program Core Courses (27 credit hours)
- Major Courses (12 credit hours)
- Business Options (12 credit hours)
- Electives (3 credit hours)

Total credit hours 66 credit hours

NOTES:

1) 6 credit hours from: Anthropology, History, Mathematics, Philosophy, Political Studies, Psychology, or Sociology. Courses chosen for this requirement must be independent from courses taken to fulfill other degree requirements.

2) The prerequisite for MATH 1520 or MATH 1500 is a 60 per cent in Grade 12 Pre-Calculus Mathematics 40S or equivalent or a grade of "C" in the MSKL 0100 Mathematical Skills course taught by Extended Education; the prerequisite for MATH 1230 is a 70% in Pre-calculus Mathematics or the former Mathematics 40S (300) (70%) or the MSKL 0100 Mathematical Skills offered by Extended Education (B). Students who have been admitted into the Joint Program and who successfully complete the Mathematical Skills course may be entitled to an additional three credit hour Elective from their Business Administration diploma.

3) Students are required to select a three credit hour course to satisfy the Written English "W" requirement. The "W" course for the Foundation course requirement must be from a specific discipline (ARTS 1110, GMGT 1010 and

GMGT 2010 are not considered to be from a specific discipline and therefore do not fulfil the Track 1/ Foundation Written English course requirement). Courses that satisfy the Written English requirement are listed in the chapter, General Academic Regulations and Policy.

4) All Business students must complete three credit hours of Ethics. Students may fulfil this requirement by completing one of the following courses: PHIL 2290 (6), PHIL 2750 (3), PHIL 2790 (6), PHIL 2830 (3), GMGT 3030 (3) or GMGT 3581 (3). If a 6 credit hour course is chosen, 3 credit hours will count toward the core Ethics requirement and 3 credit hours will count as Electives.

5) Alternative Management Requirement: One of the following must be chosen: AGRI 3030 (Cooperatives in Business and Community topic only), ECON 2540, LABR 2300, NATV 3120, NATV 4220, NATV 4320, POLS 3250, POLS 3270, SOC 3838 or any one of the following Asper courses: GMGT 4210, LEAD 3030 or MKT 3246 (or the former MKT 3240 when titled Sustainability Marketing topic only). Take careful note of any course prerequisites in your timetable planning. Course prerequisites will be waived for Asper students in the following courses: NATV 3120, NATV 4220, NATV 4320, and POLS 3270; students must contact an Asper Program Advisor before registration for the prerequisite waiver. May be taken in Year 3 or Year 4.

6) International Business Requirement: One of the following courses must be chosen: ACT 4250, INTB 2200, FIN 3450, HRIR 4520, MKT 3300, MKT 3240 (Cross-Cultural Brand Management topic only) or SCM 3230.

4.6 Program Requirements for the Asper School of Business /University College of the North Joint Program

Prior to admission to the Asper School of Business/University College of the North Joint Program students must complete the Business Administration Diploma (University Stream) at University College of the North with a minimum cumulative grade point average of 3.00. Students must have graduated from the Diploma program within the last 5 years to be eligible for admission. Admission is limited and competitive. Following admission to the Asper School of Business, students in the Joint Program will be required to complete 81 credit hours to earn the Bachelor of Commerce (Honours) degree. The 81 credit hours can be divided into the following components: the Core, the Major, Business Options, and Electives. These components and their associated limits are defined below.

NOTE: The Joint Program is currently under review; transfer credit details are subject to change. Please contact the Asper Undergraduate Program Office, Room 268 Drake, for information and details on the admission requirements and transfer credit processing.

NOTE: Students admitted to the Asper School of Business prior to the current calendar year should refer to the Academic Calendar for the year in which they were admitted for a description of their program requirements.

The Core

The CORE comprises 45 credit hours of the 81 required in the Joint Program. The Foundation courses (18 credit hours) should be taken in the first year in the Asper School. Students must achieve a minimum "C" grade in each Foundation course. The Program Core courses (27 credit hours) may be taken at any point in the program, but the course GMGT 4010 must be taken in the student's final term. Core courses are listed below in Course Requirements for UCN Joint Program Students

The Major

Each student must complete the course requirements of one MAJOR. Each Major will consist of a 12 credit hour unit of course work. Information on completing a Second Major is listed in Section 3.12. The Majors are listed in Section 4.2.

Students may begin taking courses for their major as soon as prerequisites are met. Students have an opportunity to transfer from one Major to another, but this opportunity decreases as the student progresses in the program.

Note: Students in the Asper School of Business/University College of the North Joint Program who want to major in Finance will be required to take FIN 2200 as one of their Business Options. Likewise, students who want to major in Marketing must take MKT 2210 as one of their Business Options.

Business Options

This component of the program consists of a required number of Business courses freely selected by the student. These courses are referred to as Business OPTIONS. Students must take 15 credit hours of Business Options. All Business Options courses must be at the 2000 Level or higher, except for language courses used as part of the International Business Major. Some students may want to take Business Options which will supplement their Major, whereas other students may prefer to broaden their educational base by selecting Business courses in other Majors. Students who want to supplement their Major may take up to 12 hours of their Business Options from that area. Students may complete a second Major as part of their Business Options requirements. Such students should consult with staff in the Undergraduate Program Office.

Electives

This component of the program is the ELECTIVE requirement. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business. Students must take 9 credit hours of Electives that meet the following criteria; 3 credit hours must be at the 2000 Level or higher, 3 credit hours must be a freely chosen course that meets the Written English "W" requirement at any level plus a 3 credit hour elective at any level.

Business Option or Elective

This component of the program consists of 3 credit hours which may be either a Business Option or Elective and it must be at the 2000 Level or higher.

Course Requirements for UCN Joint Program Students

The course requirements for the Asper School of Business/University College of the North Joint Program are as follows.

Students should register for the Foundation courses in their first year at the University of Manitoba and must achieve a minimum "C" grade in each course.

Foundation Courses

- 6 credit hours from: ANTH, HIST, MATH, PHIL, POLS, PSYC OR SOC (See Note 1) (6 credit hours)
- MATH 1520 or MATH 1500 or MATH 1230 (see Note 2) (3 credit hours)
- Written English Course (see Note 3) (3 credit hours)
- STAT 1000 or STAT 1150 (see Note 7) (3 credit hours)
- Elective (3 credit hours)

Program Core Requirements

- ENTR 2030 (3 credit hours)
- MIS 2000 (3 credit hours)
- GMGT 1010 (3 credit hours)
- MSCI 2150 (3 credit hours)
- SCM 2160 (3 credit hours)
- GMGT 4010 (must be taken in final term) (3 credit hours)

- Ethics (see note 4) (3 credit hours)
- Alternative Management Studies (see Note 5) (3 credit hours)
- International Business (see Note 6) (3 credit hours)

Total Credit Hours (39 credit hours)

Overall Program Requirements Cr. Hrs.

Foundation Courses (18 credit hours)
 Program Core Courses (27 credit hours)
 Major Courses (12 credit hours)
 Business Options (15 credit hours)
 Electives (6 credit hours)
 Business Options or Elective (3 credit hours)

Total Credit Hours 81

NOTES:

1) 6 credit hours from: Anthropology, History, Mathematics, Philosophy, Political Studies, Psychology, or Sociology. Courses chosen for this requirement must be independent from courses taken to fulfill other degree requirements.

2) The prerequisite for MATH 1520 or MATH 1500 is a 60 per cent in Grade 12 Pre-Calculus Mathematics 40S or equivalent or a grade of "C" in the MSKL 0100 Mathematical Skills course taught by Extended Education; the prerequisite for MATH 1230 is a 70% in Pre-calculus Mathematics or the former Mathematics 40S (300) (70%) or the MSKL 0100 Mathematical Skills offered by Extended Education (B).

3) Students are required to select a three credit hour course to satisfy the Written English "W" requirement. The "W" course for the Foundation course requirement must be from a specific discipline (ARTS 1110, GMGT 1010 and GMGT 2010 are not considered to be from a specific discipline and therefore do not fulfil the Track 1/ Foundation Written English course requirement). Courses that satisfy the Written English requirement are listed in the chapter, General Academic Regulations and Policy.

4) All Business students must complete three credit hours of Ethics. Students may fulfil this requirement by completing one of the following courses: PHIL 2290 (6), PHIL 2750 (3), PHIL 2790 (6), PHIL 2830 (3), GMGT 3030 or GMGT 3581 (3). If a 6 credit hour course is chosen, 3 credit hours will count toward the core Ethics requirement and 3 credit hours will count as Electives.

5) Alternative Management Requirement: One of the following must be chosen: AGRI 3030 (Cooperatives in Business and Community topic only), ECON 2540, LABR 2300, NATV 3120, NATV 4220, NATV 4320, POLS 3250, POLS 3270, SOC 3838 or any one of the following Asper courses: GMGT 4210, LEAD 3030 or MKT 3246 (or the former MKT 3240 when titled Sustainability Marketing topic only). Take careful note of any course prerequisites in your timetable planning. Course prerequisites will be waived for Asper students in the following courses: NATV 3120, NATV 4220, NATV 4320, and POLS 3270; students must contact an Asper Program Advisor before registration for the prerequisite waiver. May be taken in Year 3 or Year 4.

6) International Business Requirement: One of the following courses must be chosen: ACT 4250, INTB 2200, FIN 3450, HRIR 4520, MKT 3300, MKT 3240 (Cross-Cultural Brand Management topic only) or SCM 3230.

7) The prerequisite for STAT 1150 is a minimum of 70% in Pre-calculus Mathematics 40S or a grade of B or better in MSKL 0100 Mathematical Skills offered by Extended Education or equivalent.

4.7 Program Requirements for the Asper School of Business /École technique et professionnelle joint program

Prior to admission to the Asper School of Business/École technique et professionnelle Joint Program students must complete the Business Administration Diploma (University Stream) at École technique et professionnelle with a minimum cumulative grade point average of 3.00. Students must have graduated from the Diploma program within the last 5 years to be eligible for admission. Admission is limited and competitive. Following admission to the Asper School of Business, students in the Joint Program will be required to complete 66 credit hours to earn the Bachelor of Commerce (Honours) degree. The 66 credit hours can be divided into the following components: the Core, the Major, Business Options, and Electives. These components and their associated limits are defined below.

NOTE: The Joint Program is currently under review; transfer credit details are subject to change. Please contact the Asper Undergraduate Program Office, Room 268 Drake, for information and details on the admission requirements and transfer credit processing.

NOTE: Students admitted to the Asper School of Business prior to the current calendar year should refer to the Academic Calendar for a description of their program requirements.

The Core

The CORE comprises 39 credit hours of the 66 required in the Joint Program. The Foundation courses (12 credit hours) should be taken in the first year in the Asper School. Students must achieve a minimum "C" grade in each Foundation course. The Program Core courses (27 credit hours) may be taken at any point in the program, but the course GMGT 4010 must be taken in the student's final term. Core courses are listed below in Course Requirements for ETP Joint Program Students.

The Major

Each student must complete the course requirements of one MAJOR. Each Major will consist of a 12 credit hour unit of course work. Information on completing a Second Major is listed in Section 3.12. The Majors are listed in Section 4.2.

Students may begin taking courses for their major as soon as prerequisites are met. Students have an opportunity to transfer from one Major to another, but this opportunity decreases as the student progresses in the program.

Note: Students in the Asper School of Business/École technique et professionnelle joint program who want to major in Finance will be required to take FIN 2200 as one of their Business Options.

Business Options

This component of the program consists of a required number of Business courses freely selected by the student. These courses are referred to as Business OPTIONS. Students must take at least nine and not more than 9 hours of Business Options. All Business Options courses must be at the 2000 Level or higher, except for language courses used as part of the International Business Major. Some students may want to take Business Options which will supplement their Major, whereas other students may prefer to broaden their educational base by selecting Business courses in other Majors. Students who want to supplement their Majors may take up to 9 hours of their Business Options from that area. Students may complete a second Major as part of their Business Options requirements. Such students should consult with staff in the Undergraduate Program Office.

Electives

This component of the program is the ELECTIVE requirement. An Elective is any three or six credit hour course freely chosen by the student from courses taught in the degree programs of other faculties and schools, excluding the Asper School of Business. Students must take at least 3 credit

hours of Electives that meet the following criteria; 3 credit hours must be a freely chosen course that meets the Written English "W" requirement at any level.

Business Option or Elective

This component of the program consists of 3 credit hours which may be either a Business Option or Elective but it must be at the 2000 Level or higher.

Course Requirements for ETP Joint Program Students

The course requirements for the Asper School of Business/École technique et professionnelle Joint Program are as follows.

Students should register for the Foundation courses in their first year at the University of Manitoba and must achieve a minimum "C" grade in each course.

Foundation Requirements Cr. Hrs.

- 6 credit hours from: ANTH, HIST, MATH, PHIL, POLS, PSYC OR SOC (See Note 1)
- MATH 1520 or MATH 1500 or MATH 1230 (see Note 2) (3 credit hours)
- Written English Course/Elective (see Note 3) (3 credit hours)

Program Core Requirements

- ENTR 2030 (3 credit hours)
- MIS 2000 (3 credit hours)
- GMGT 1010 (3 credit hours)
- MSCI 2150 (3 credit hours)
- SCM 2160 (3 credit hours)
- GMGT 4010 (must be taken in final term) (3 credit hours)
- Ethics (see note 4) (3 credit hours)
- Alternative Management Studies (see Note 5) (3 credit hours)
- International Business (see Note 6) (3 credit hours)

Total Credit Hours 39

Overall Program Requirements Cr. Hrs.

- Foundation Courses (12 credit hours)
- Program Core Courses (27 credit hours)
- Major Courses (12 credit hours)
- Business Options (2000+ level, except for language courses used as part of the International Business Major.) (9 credit hours)
- Electives (2000+ level & a "W" elective course any level) (3 credit hours)
- Business Option or Elective (3 credit hours)

Total Credit Hours (66 credit hours)

NOTES:

1) 6 credit hours from: Anthropology, History, Mathematics, Philosophy, Political Studies, Psychology, or Sociology. Courses chosen for this requirement must be independent from courses taken to fulfill other degree requirements.

2) The prerequisite for MATH 1520 or MATH 1500 is a 60 per cent in Grade 12 Pre-Calculus Mathematics 40S or equivalent or a grade of "C" in the MSKL 0100 Mathematical Skills course taught by Extended Education; the prerequisite for MATH 1230 is a 70% in Pre-calculus Mathematics or the former Mathematics 40S (300) (70%) or the MSKL 0100 Mathematical Skills offered by Extended Education (B). Students who have been admitted into the Asper School of Business/École technique et professionnelle Joint Program and who successfully complete the Mathematical Skills course may be entitled to an additional three credit hour Elective from their Business Administration diploma.

3) Students are required to select a three credit hour course to satisfy the Written English "W" requirement. The "W" course for the Foundation course requirement must be from a specific discipline (ARTS 1110, GMGT 1010 and GMGT 2010 are not considered to be from a specific discipline and therefore do not fulfil the Track 1/ Foundation Written English course requirement). Courses that satisfy the Written English requirement are listed in the chapter, General Academic Regulations and Policy.

4) All Business students must complete three credit hours of Ethics. Students may fulfil this requirement by completing one of the following courses: PHIL 2290 (6), PHIL 2750 (3), PHIL 2790 (6), PHIL 2830 (3), GMGT 3030 or GMGT 3581 (3). If a 6 credit hour course is chosen, 3 credit hours will count toward the core Ethics requirement and 3 credit hours will count as Electives.

5) Alternative Management Requirement: One of the following must be chosen: AGRI 3030 (Cooperatives in Business and Community topic only), ECON 2540, LABR 2300, NATV 3120, NATV 4220, NATV 4320, POLS 3250, POLS 3270, SOC 3838 or any one of the following Asper courses: GMGT 4210, LEAD 3030 or MKT 3246 (or the former MKT 3240 when titled Sustainability Marketing topic only). Take careful note of any course prerequisites in your timetable planning. Course prerequisites will be waived for Asper students in the following courses: NATV 3120, NATV 4220, NATV 4320, and POLS 3270; students must contact an Asper Program Advisor before registration for the prerequisite waiver. May be taken in Year 3 or Year 4.

6) International Business Requirement: One of the following courses must be chosen: ACT 4250, INTB 2200, FIN 3450, HRIR 4520, MKT 3300, MKT 3240 (Cross-Cultural Brand Management topic only) or SCM 3230.

4.8 Program Requirements for the Asper International Exchange Program

Contact and Program Information

Coordinator: Amber Pohl
Room: 268 Drake
Telephone: 204-474-6752
Email: amber.pohl@umanitoba.ca

The Asper School of Business offers an International Exchange Program, designed to complement and enrich the academic program with international experience. All students must complete all 120 credit hours of the program including the Core, one of the Majors listed above in Section 4.2, as well as the Option and Elective course components.

4.8.1 Entrance Requirements

At the time of assessment, those applying to the Asper International Exchange program must possess:

- All Bachelor of Commerce (Honours) admission requirements as specified in the University of Manitoba Undergraduate Calendar, the Asper School of Business
- A minimum degree grade point average of 3.0 upon assessment of application
- Completion of a minimum of 12 University of Manitoba credit hours at the time of application
- Direct entry students must complete a minimum of 24 credit hours at the University of Manitoba at the time of commencement of the international exchange term
- Transfer students must have completed a minimum of 12 credit hours at Asper at the commencement of their international exchange term

- Students may participate in an exchange in their final term before graduation

In addition to meeting the above requirements, the following are required of students:

- Completed application form
- Submission of 1-3 page Statement of Intent
- Submission of current resume
- Submission of three recommendation forms (one academic reference, one professional/volunteer reference, one academic OR professional/volunteer reference)
- A meeting conducted by an interview committee or Director, International Programs (or designate) to assess academic background and suitability, based on academic performance, maturity level, motivation, and personal characteristics. Where deemed necessary, a second meeting with the Director, International Programs (or designate) may be required

Upon completion of the application process, each applicant's academic standing is verified by the Undergraduate Program Office.

Application Deadline: Applications to the Asper International Exchange Program must be received prior to the application deadlines specified on the Exchange website (www.umanitoba.ca/asper/exchange), except by special permission.

Students are advised that satisfying the minimum entrance requirements does not guarantee acceptance into the program. In the event that demand for space exceeds the number of spaces available, a cap may be placed on the number of students accepted. In such situations, the Asper School of Business reserves the right to determine and select the best qualified applicants.

Students are required to have an academic record free of any allegation of academic dishonesty where the allegation has been upheld. If it is found that during the assessment of the entrance requirements a student has had an allegation of academic dishonesty upheld against them, or that they have deliberately provided false application information, the student will no longer be eligible for entrance into the Asper International Exchange Program.

4.8.2 Program Structure

The program consists of academic terms in the fall, winter and summer. Full academic terms in fall or winter will be a minimum of four months in duration depending on host institution scheduling. Short term summer programs will vary in length depending upon host institution scheduling.

4.8.3 Academic Term Requirements

Students participating in a regular academic exchange term (defined as Fall or Winter by the University of Manitoba) are required to be registered in a minimum of 12 credit hours during each term. Students participating in an international summer school are required to be registered in a minimum of 3 credit hours.

Senate approved regulations (approved May 18, 1994) allow an Asper student to receive a waiver of the University's residency requirement. The University allows 60 of the 120 credit hours of the degree program to be external. Asper exchange students can be permitted a waiver of this to go on an international exchange, assessed internally by the Asper Associate Undergraduate Dean/Director, International Programs.

All students going on international exchange may be considered for a waiver of the university residency requirement only if they can complete

the degree and ensure at least 48 credit hours of coursework are courses taken at the University of Manitoba.

Current Faculty Council guidelines (approved December 11, 2009) for students admitted under domestic or international joint articulation agreements to participate in an Exchange must still be adhered to. Domestic or international joint articulation agreement students will be permitted to apply for a maximum 1-term exchange with a maximum of 15 credit hours. Refer to appendix regarding students admitted under the Ningbo 2+2 articulation agreement up to and including the final student intake in September 2019.

Dual degree students may need permission from their home institution to participate if approved by Asper.

4.8.4 Withdrawal

Students may be required to withdraw from the Asper International Exchange Program, prior to departure, for any of the following reasons:

- Failure to maintain the minimum academic requirements of the Asper School of Business, or
- Failure to successfully complete a minimum of 24 credit hours upon commencement of their exchange term, or
- Found to have engaged in academic and/or non-academic misconduct, or
- When, in the opinion of the Director, International Programs (or designate), the student does not exhibit sufficient qualities of ability, skills, aptitudes, attitudes, diligence or motivation to complete the Asper International Exchange Program successfully

Students who wish to withdraw from the Asper International Exchange Program prior to departure voluntarily may do so by written letter to the Asper Coordinator of Student Exchanges and International Cooperation/Student Advisor at any time prior to the start of their exchange term.

4.8.5 Appeals of Decisions to Academic and Non-Academic Matters

Appeals of academic decisions relating to the Asper International Exchange Program (i.e. those relating to the entrance, continuing and graduation requirements) will be processed in a similar manner to any other appeals for decisions of academic regulations. Normally, the student's written request, accompanied by any supporting medical and/or compassionate documentation and a written recommendation from the Coordinator of Student Exchanges and International Cooperation/Student Advisor will be directed to the Undergraduate Program Manager for either immediate disposition or to send to the Undergraduate Program Committee for its consideration.

Appeals to non-academic program related issues should be resolved by contact with the Asper Coordinator of Student Exchanges and International Cooperation/Student Advisor or Director, International Programs. Appeals related to non-academic entrance are the responsibility of the Director, International Programs. If these appeals are not resolved to the student's satisfaction, the student may appeal in writing to the Undergraduate Program Committee through the Undergraduate Program Manager.

Appendix A

In addition to meeting all other requirements, approval from the Asper Associate Undergraduate Dean/Director, International Programs and from the Dean or designate at Ningbo University is required for Ningbo 2+2 students admitted up to and including the final intake in September 2019.

SECTION 5 Course Descriptions

SECTION 5.1 Accounting and Finance- Accounting Course Descriptions 1000 Level (ACC)

ACC 1100 Introductory Financial Accounting Cr. Hrs. 3

(Lab required) Examination of accounting postulates underlying the preparation and presentation of financial statements.

ACC 1110 Introductory Managerial Accounting Cr. Hrs. 3

(Lab required). Role of accounting in creation and application of business information used by decision-makers in the management of enterprise. Prerequisite: ACC 1100 (009.110) (D). Prerequisite or Concurrent Requirement: ECON 1010 (D) and ECON 1020 (D) or the former ECON 1200 (D).

SECTION 5.2 Accounting and Finance- Accounting Course Descriptions-2000 Level (ACC)

ACC 2010 Intermediate Accounting – Assets Cr. Hrs. 3

Accounting policies and practices dealing with calculation and measurement of assets and related reporting problems. Prerequisite: ACC 1100 (C+).

ACC 2020 Intermediate Accounting – Equities Cr. Hrs. 3

Consideration of current accounting relating to equities with attention to the accounting treatment of current and long-term liabilities, income tax allocation, share capital, and surplus. May not be held with FIN 3250 or ACC 2021. Prerequisites: (ACC 2010 (C) or ACC 2011 (C)) and (FIN 2200 (C) or FIN 2201 (C)).

SECTION 5.3 Accounting and Finance- Accounting Course Descriptions-3000 Level (ACC)

ACC 3030 Advanced Accounting Cr. Hrs. 3

Topics include: partnerships, consolidations, mergers, reporting on conglomerates, and fund accounting. Not offered every year. May not be held with ACC 3031. Prerequisites: (ACC 2010 (C) or ACC 2011 (C)) and (ACC 2020 (C) or ACC 2021 (C)).

ACC 3040 Cost Accounting Cr. Hrs. 3

Study of accounting concepts and functions as they relate to product costing, planning, control, and decision-making. Prerequisite: ACC 1110 (C+).

ACC 3080 Canadian Income Taxation Cr. Hrs. 3

(Lab required). Structure and concepts of the Canadian income tax system, calculation of income and tax thereon for individuals and corporations, introduction to planning principles. May not be held with ACC 3050 or ACC 3051. Prerequisite: ACC 1100 (C+).

ACC 3530 Accounting Information Systems Cr. Hrs. 3

Role of accounting systems in total management information systems; design and installation of accounting systems. Prerequisites: ACC 1110 or ACC 1111 (D) and MIS 2000 or MIS 2001 (D).

SECTION 5.4 Accounting and Finance- Accounting Course Descriptions 4000 Level (ACC)

ACC 4010 Auditing Cr. Hrs. 3

Study of philosophy and concepts of auditing, legal and ethical responsibilities of the auditor, basic techniques of auditing including statistical sampling and flowcharting, and the operational audit. May not be held with ACC 4011. Prerequisites: (ACC 2010 (C) or ACC 2011 (C)) and (ACC 2020 (C) or ACC 2021 (C)).

ACC 4030 Accounting Theory Cr. Hrs. 3

Examination of principles and postulates of accounting theory. Coverage of selected topics will vary from year to year depending on interests of course participants. May not be held with ACC 4031. Prerequisites: (ACC 2020 or ACC 2021 (C)) and (FIN 2200 or FIN 2201 (C)).

ACC 4040 Advanced Managerial Accounting Cr. Hrs. 3

A critical examination of managerial accounting techniques and the controllership function. Prerequisite: ACC 3040 (D).

SECTION 5.5 Accounting and Finance- Finance Course Descriptions 2000 Level (FIN)

FIN 2200 Corporation Finance Cr. Hrs. 3

(Lab required) An introduction to corporate finance regarding the allocation and acquisition of funds. Topics include: discounted cash flows, capital budgeting, financial instruments, cost of capital, risk-return trade-offs, market efficiency, capital structure and the use of derivatives. May not be held with FIN 2201. Prerequisites: [A grade of "D" or better in ACC 1100 or ACC 1101] and [a grade of "C" or better in MATH 1230 or MATH 1500 or MATH 1501 or MATH 1520] and [a grade of "C" or better in STAT 1000 or STAT 1001 or STAT 1150] and [a grade of "C" or better in both ECON 1010 (or ECON 1011) and ECON 1020 (or ECON 1021) or the former ECON 1200 (or the former ECON 1201)].

SECTION 5.6 Accounting and Finance- Finance Course Descriptions 3000 Level (FIN)

FIN 3240 Entrepreneurial Finance Cr. Hrs. 3

Study of entrepreneurial finance, addressing both investment and financing decisions of new ventures, covering both in theory and in practice. May not be held for credit in any program with FIN 3470 and may not be used in place of FIN 3470. Prerequisite: FIN 2200 (D).

FIN 3250 Financial Statement Analysis Cr. Hrs. 3

A study of the methods and techniques used for interpretation of annual financial reports and the significance of alternative accounting policies on reported income. Students may not hold credit for both FIN 3250 and ACC 2020. Prerequisite: ACC 1100 (D).

FIN 3270 Personal Financial Planning Cr. Hrs. 3

An introduction to financial planning techniques used in professional practice. Topics include financial assessment, income tax planning, risk management, insurance, debt and credit management, investments, retirement planning, and estate planning. Prerequisite: FIN 2200 (D).

FIN 3400 Investment Banking Cr. Hrs. 3

The practice and theory of investment banking including valuation, initial public offerings, mergers and acquisitions, and restructuring. Prerequisite: FIN 2200 (C+).

FIN 3410 Investments Cr. Hrs. 3

An introduction to investment analysis and modern portfolio theory. Topics include equilibrium in the capital markets, fixed income securities, equities and derivative instruments. May not be held with FIN 3411. Prerequisites: [A grade of "C+" or better in FIN 2200 or FIN 2201] and [a grade of "C" or better in MATH 1220 or MATH 1300 or MATH 1301 or MATH 1310] and [a grade of "C" or better in STAT 2000 or STAT 2001 or STAT 2150].

FIN 3420 Security Analysis Cr. Hrs. 3

This course provides a practical application of techniques to analyse a company for investment purposes and evaluate purchases of stock and fixed-income securities. Topics include financial statement analysis, ratio analysis, alternative methods for forecasting corporate profits and dividends, risk assessment, and valuation techniques. Prerequisites: FIN 2200 (C+).

FIN 3440 Real Estate Investments Cr. Hrs. 3

An introduction to real estate finance. Topics include valuation, financing, transaction, tax and legal issues. Prerequisite: FIN 2200 (C+).

FIN 3450 International Finance Cr. Hrs. 3

An introduction to the theory of comparative advantage, foreign exchange markets, international parity relations, international debt and equity markets, international debt operating exposures, and international capital budgeting. Prerequisite: FIN 2200 (C+).

FIN 3460 Financial Markets and Institutions Cr. Hrs. 3

A study of financial systems with emphasis on Canada. Major topics include monetary policy, financial markets, financial institutions, financial regulation and risk management. May not be held with ECON 3640 or ECON 3641. Prerequisites: [A grade of "C+" or better in FIN 2200 or FIN 2201] and [a grade of "C" or better in MATH 1220 or MATH 1300 or MATH 1301 or MATH 1310] and [a grade of "C" or better in STAT 2000 or STAT 2001 or STAT 2150].

FIN 3470 Small Business Finance Cr. Hrs. 3

Study of the financial issues faced by small business enterprises. Prerequisite: FIN 2200 (D). May not be held with FIN 3240.

FIN 3480 Corporate Finance Theory and Practice Cr. Hrs. 3

Intermediate Corporate Finance including the following topics: Capital budgeting theory and techniques, determination of relevant cost of capital, capital structure, dividend policy, leasing and other special topics. May not be held with FIN 3481. Prerequisites: [a grade of "C+" or better in FIN 2200 or FIN 2201] and [a grade of "C" or better in MATH 1220 or MATH 1300 or MATH 1301 or MATH 1310] and [a grade of "C" or better in STAT 2000 or STAT 2001 or STAT 2150].

SECTION 5.7 Accounting and Finance- Finance Course Descriptions-4000 Level (FIN)

FIN 4230 Selected Topics in Finance Cr. Hrs. 3

A study of current issues in finance. Topics considered will depend on the interests and needs of the participants. Prerequisite: FIN 2200 (C+).

FIN 4240 Financial Modeling Cr. Hrs. 3

Spreadsheet implementation of practitioner-oriented financial models. May not be held with FIN 4230 when titled "Financial Modeling". Prerequisite: FIN 3410 (C).

FIN 4250 Behavioral Finance **Cr. Hrs. 3**

Understand how human biases impact the financial decisions of market participants and the practical implications. Prerequisite: FIN 2200 (C+).

FIN 4260 Advanced Finance Theory **Cr. Hrs. 3**

Theories that provide the foundation for modern corporate finance. Empirical tests of finance theories. Implications for managers. Prerequisites: FIN 3410 (D) and FIN 3480 (D).

FIN 4270 Options and Futures **Cr. Hrs. 3**

Mechanics of futures, options and swaps markets. Topics include arbitrage, hedging, forward rate agreements, models of derivative valuation and value-at-risk. Prerequisite: FIN 3410 (D).

FIN 4400 Financial Management Practices **Cr. Hrs. 3**

Application of theoretical models in finance to real-world problems using cases. Topics include working capital management, long-term investment and financing decisions, valuation, risk management, reorganizations and international financial management. Prerequisite: FIN 3480 (D).

SECTION 5.8 Accounting and Finance- Management Info Systems Course Descriptions 2000 Level (MIS)

MIS 2000 Information Systems for Management **Cr. Hrs. 3**

(Lab required) Introduction to information systems in organizations, systems development/acquisition, and management issues concerning information technology in organizations.

SECTION 5.9 Accounting and Finance- Management Info Systems Course Descriptions 3000 Level (MIS)

MIS 3500 Database Management Systems **Cr. Hrs. 3**

Designing, developing and managing database systems, by using mainstream design methodologies and popular development tools. Prerequisites: [MIS 3510 (D)] and [COMP 1010 (C)].

MIS 3510 Systems Analysis and Design **Cr. Hrs. 3**

Analyzing business tasks, processes, information and information technology, and designing information systems by employing methodologies, techniques and popular software used by information systems professionals. Prerequisites: MIS 2000 (C+).

MIS 3520 Data Communications and Networking **Cr. Hrs. 3**

A study of basic data communications topics, including communication media, protocols, network security, network topologies (local and wide area networks), Web development and network management issues. Prerequisite: MIS 2000 (C+).

SECTION 5.10 Accounting and Finance- Management Info Systems Course Descriptions 4000 Level (MIS)

**MIS 4250 Advanced Topics in Management
Information Systems** **Cr. Hrs. 3**

A study of current issues in MIS. The topics for this course will vary over time, depending on student interests, faculty interests, and student demand. Not offered every year. Prerequisite: consent of instructor.

MIS 4500 Management Information Systems Strategy **Cr. Hrs. 3**

A survey of the various issues associated with managing information as a resource. Explores MIS planning frameworks and tools, and the linkages between information systems, organizational structure and organizational strategy. A survey of the various issues associated with managing information as a resource. Explores MIS planning frameworks and tools, and the linkages between information systems, organizational structure and organizational strategy. Prerequisites: at least two of the following: ACC 3530 (D), MIS 3500 (D), MIS 3510 (D), MIS 3520 (D), MIS 4250 (D).

SECTION 5.11 Warren Centre for Actuarial Studies Course Descriptions 2000 Level (ACT)

ACT 2020 Economic and Financial Applications **Cr. Hrs. 3**

A synthesis of macroeconomic issues, quantitative aspects of finance using interest theory, and insurance economics.

ACT 2120 Interest Theory **Cr. Hrs. 3**

The application of calculus and probability to discrete and continuous interest functions. Key topics are the measurement of interest, present and accumulated values, and annuities. May not be held with the former ACT 3320. Prerequisite: MATH 1232 (C) or MATH 1690 (C) or MATH 1700 (B) or MATH 1710 (B). Prerequisite or co-requisite: [MATH 2720 or MATH 2721 (D)] or [MATH 2731 or the former MATH 2750 or MATH 2730 (D)] and STAT 2400 (D).

ACT 2210 Introduction to Risk Management **Cr. Hrs. 3**

Mathematical tools for the quantitative assessment of risk and their application to problems encountered in risk management. Prerequisite or co-requisite: STAT 2400 (D) or consent of instructor.

SECTION 5.12 Warren Centre for Actuarial Studies Course Descriptions 3000 Level (ACT)

ACT 3130 Actuarial Models 1 **Cr. Hrs. 3**

Elementary concepts respecting the quantification of the financial impact of contingent payments. May not be held with ACT 3630. Prerequisites: ACT 2120 (C+) and [STAT 3400 (D) (or the former STAT 3500 (D))].

ACT 3230 Actuarial Models 2 **Cr. Hrs. 3**

Intermediate and advanced concepts respecting the quantification of the financial impact of contingent payments. Not to be held with ACT 3630. Prerequisite: ACT 3130 (C+).

ACT 3340 Financial Derivatives for Actuarial Practice **Cr. Hrs. 3**

Introduction of interest rate models and rational valuation of derivative securities. Prerequisite: ACT 2020 (C+) or consent of instructor.

ACT 3530 Actuarial Models 4 **Cr. Hrs. 3**

Survival Models, Stochastic Process Models, and Simulation Models. May not be held with the former 010.447. Prerequisite: ACT 3130 (C+). Prerequisite or Concurrent Requirement: ACT 3230 (D).

ACT 3630 Models for Life Contingencies Cr. Hrs. 6

Knowledge of the theoretical basis of contingent payment models and the application of those models to insurance and other financial risks. Not to be held with ACT 3130 and ACT 3230. Prerequisite or co-requisite: ACT 2120 (C+); and STAT 3400 (formerly STAT 3500) (C).

SECTION 5.13 Warren Centre for Actuarial Studies Course Descriptions 4000 Level (ACT)

ACT 4000 Advanced Actuarial Topics Cr. Hrs. 3

A selection of advanced topics of current actuarial interest. Prerequisite: ACT 3230 (D).

ACT 4010 Regression Modeling in Actuarial Science Cr. Hrs. 3

Construction of generalized linear models and regression-based time series models with actuarial applications. May not be held with IDM 4050 when titled "Time Series and Regression Analysis for Management". Pre- or co-requisite: STAT 3400 (D) (or the former STAT 3500).

ACT 4020 Short Term Actuarial Mathematics I Cr. Hrs. 3

Introduction to useful frequency and severity models, aggregate models, coverage modifications, risk measures and construction and selection of parametric models. This course covers part of the learning objectives of Short-Term Actuarial Mathematics Exam by the Society of Actuaries (SoA). May not be held with the former ACT 4140 or the former ACT 4630 Pre- or co-requisite: STAT 3400 (D) (or the former STAT 3500(D)).

ACT 4030 Short Term Actuarial Mathematics II Cr. Hrs. 3

Introduction to useful credibility theory, insurance and reinsurance coverage, and pricing and reserving for short term insurance coverages. This course covers part of the learning objectives of Short-Term Actuarial Mathematics Exam by the Society of Actuaries (SoA). May not be held with the former ACT 4240 or the former ACT 4630. Prerequisite: ACT 4020 (C+) (or the former ACT 4140(C+)).

ACT 4060 Actuarial Aspects of Investment Practice Cr. Hrs. 3

This course examines stochastic interest rates and tools and techniques for coping with general product issues in asset/liability management. May not be offered every year. Students may not hold credit for both ACT 4060. Prerequisites: FIN 2200 Corporate Finance (C+).

ACT 4150 Pension Mathematics Cr. Hrs. 3

Actuarial applications for defined benefit pension plans. Actuarial cost methods, funding levels, operation of pension plans from an actuarial perspective. Students may not hold credit with ACT 7550. May not be offered every year. Prerequisite: ACT 3230 (D).

ACT 4160 Introduction to Property and Casualty Insurance Industry Cr. Hrs. 3

The introduction to the Property and Casualty Insurance Industry and the discussion of relevant topics. Pre- or Corequisite: ACT 2120 (C+) or consent of instructor.

ACT 4250 Managing Insurance Operations in the International Business Environment Cr. Hrs. 3

Introduction of the risks inherent in insurance products and assets, as well as the relationships between assets and liabilities across the entire operations of the global insurance enterprise. Prerequisites: FIN 2200 (C+) or consent of instructor.

ACT 4340 Actuarial Modeling Methods 3 Cr. Hrs. 3

Classical, Bayesian and Buhlmann Credibility Models. The connection between Credibility Theory and Experience Rating. Underlying assumptions for the different methods. Simulation in Estimating and Fitting Actuarial Models. May not be offered every year. Prerequisite: ACT 4020 (C+) (or the former ACT 4140(C+)).

SECTION 5.14 Business Administration- Entrepreneurship/Small Business Course Descriptions 2000 Level (ENTR)

ENTR 2010 Managing the Smaller Business Cr. Hrs. 3

Small firms dominated the Canadian economic scene and contribute to the nations' economic welfare in a major way but pose different managerial issues and problems for their owner/managers than larger organizations. This course will focus specifically on how to effectively manage and grow the smaller firm. Students may not hold credit for both ENTR 2010 and ENTR 3100. This course is not open to students in the Asper School of Business. This course is not for students who will pursue a major in Entrepreneurship/Small Business. U1 students may take this course.

ENTR 2020 Starting a New Business Cr. Hrs. 3

This is a course for students in all Faculties who may wish to start a business of their own at some time or assess their potential for such an option. It will cover a broad range of topics to increase your understanding of what it takes to succeed in an entrepreneurial career. Students may not hold credit for both ENTR 2020 and ENTR 4100. This course is not open to students in the Asper School of Business. This course is not for students who will pursue a major in Entrepreneurship/Small Business. U1 students may take this course.

ENTR 2030 Introduction to Entrepreneurship: Business and Social Perspectives Cr. Hrs. 3

Examines entrepreneurship via a social, environmental and economic sustainability perspective. Provides proven methods of entrepreneurial thinking to help students explore the relationship between society's need for economic development and costs to and benefits for the environment or other stakeholders, including rural and indigenous communities. Prerequisite: GMGT 1010 (D).

SECTION 5.15 Business Administration- Entrepreneurship/Small Business Course Descriptions 3000 Level (ENTR)

ENTR 3100 Small Business Management Cr. Hrs. 3

An appreciation of the primary issues that should be considered in starting and managing a small business within the Canadian context. Students may not hold credit for both ENTR 3100 and ENTR 2010. Prerequisites: ACC 1100 (D), and MKT 2210 (D), and GMGT 2060 (formerly GMGT 2080) (D)].

ENTR 3102 Technological Entrepreneurship Cr. Hrs. 3

An overview of the inter-relationship between technology and entrepreneurship. An appreciation of the role of technical entrepreneurship in the economy, how a technology strategy is developed, implemented and defended as well as the societal implications of technological entrepreneurship. Prerequisite: MKT 2210(D).

ENTR 3104 Selected Topics in Small Business/Entrepreneurship Cr. Hrs. 3

A study of selected areas of recent development related to small business/entrepreneurship. Topics may include innovation and creativity,

venture financing, opportunity identification and recognition, franchising and entry strategies of new business, social entrepreneurship, international entrepreneurship and entrepreneurial histories (e.g. IDEA recipients).
Prerequisites: none

ENTR 3106 Family Business Management **Cr. Hrs. 3**

An examination of the unique challenges inherent in the management of a family business. Topics include founder relinquishment, the need for succession planning and firm regeneration, the core actors and their issues, ownership structure and estate planning. Prerequisite: GMGT 2060 (D) or GMGT 2080 (D).

**SECTION 5.16 Business Administration-
Entrepreneurship/Small Business Course
Descriptions 4000 Level (ENTR)**

ENTR 4100 New Venture Analysis **Cr. Hrs. 3**

A project oriented course focusing on the identification and evaluation of viable new venture concepts and their associated risks, problems, and opportunities. Students may not hold credit for both ENTR 4100 and ENTR 2020. Students are strongly encouraged to take FIN 3240 prior to ENTR 4100. Prerequisites: MKT 2210 (D) and ACC 1110 (D) and [GMGT 2060 (D) (or GMGT 2080 (D))] and FIN 2200 (D).

**SECTION 5.17 Business Administration-
General Management Course
Descriptions 1000 Level (GMGT)**

GMGT 1010 Business and Society **Cr. Hrs. 3**

The course will provide overarching frameworks to examine the nature, role, and importance of business in society. Key internal operations of business organizations will be discussed (e.g. finance, marketing, operations), but the majority of the course examines the relationships that business firms must balance among key stakeholders in their external environment (i.e. government, owners, customers, communities, suppliers, future generations, etc.). Students will examine various institutional contexts (e.g. economic, political-legal, and socio-cultural) and critically think about relationships between business and society, mindfully considering alternative approaches to management. Special emphasis will be placed on contemporary social issues in business (e.g. sustainable development, corporate social responsibility).

**SECTION 5.18 Business Administration-
General Management Course
Descriptions 2000 Level (GMGT)**

GMGT 2010 Business Communications **Cr. Hrs. 3**

The course provides an introduction to theoretical, cultural, and ethical bases of effective communication. Another goal is to develop students' interpersonal, oral, and written communication skills at individual, group, and organizational levels. The students will also develop analytical, problem-solving, rhetorical, and critical thinking abilities required in organizational and business settings. Students are strongly recommended to take GMGT 2010 in their first 45 credit hours. Not to be held for credit with the former GMGT 2000.

GMGT 2060 Management and Organizational Theory **Cr. Hrs. 3**

Examination of the underlying principles concerning the formation of organizations and their internal management. Emphasis on the study and analysis of various theoretical approaches to organization theory and management. Prerequisite: GMGT 1010 (D). Students may not hold for credit with either GMGT 2080 or GMGT 2030.

GMGT 2070 Introduction to Organizational Behaviour **Cr. Hrs. 3**

Examination of the impact of human behaviour on the formal and informal organization. Topics include leadership, work groups, organizational conflict, and communications.

GMGT 2120 Business/Government Relations **Cr. Hrs. 3**

Analysis of the interaction between business firms and government in the creation, modification, and implementation of government policies that affect business. Study of the ways business can influence government decision-making. Prerequisite: [ECON 1010 (D) and ECON 1020 (D)] or ECON 1200 (D).

**SECTION 5.19 Business Administration-
General Management Course
Descriptions 3000 Level (GMGT)**

GMGT 3010 Management Decision-Making **Cr. Hrs. 3**

Introduces students to the decision-making process and factors that enter into making decisions, including the objectives and approaches to decision-making, the basic type of managerial decisions, and exemplifications of decision in operations. Decision making will be viewed as a multi-dimensional process involving values, psychology, sociology, social psychology, and politics. The course presents a variety of perspectives useful for making and evaluating decisions in all kinds of organizations. Prerequisites: GMGT 2070 (D).

GMGT 3030 Contemporary Social Issues in Business **Cr. Hrs. 3**

Study of key issues in the relationship of business organizations and society with emphasis on the impact of management. Prerequisites: [GMGT 2060 or former GMGT 2080 (D)] and GMGT 2070 (D).

GMGT 3160 Managerial Economics **Cr. Hrs. 3**

An introduction to the economic foundation of managerial decision making, which includes pricing strategies, boundaries of the firm, investment in human capital and incentive contract design. Also offered by the Faculty of Arts as ECON 3160. May not be held with ECON 3160. Prerequisite: [a grade of "C" or better in both ECON 1010 (or ECON 1011) and ECON 1020 (or ECON 1021), or the former ECON 1200, or the former ECON 1201] and [a grade of "C" or better in MATH 1230 or MATH 1500 (or MATH 1501) or MATH 1510 or MATH 1520].

GMGT 3300 Commercial Law **Cr. Hrs. 3**

General history of law, the organization of courts, the Canadian Constitution, federal and provincial legislative functions. Legal concepts and problems relating to business organization, contracts, principal and agent, negotiable instruments, common torts, and bankruptcy proceedings.

**SECTION 5.20 Business Administration-
General Management Course
Descriptions 4000 Level (GMGT)**

GMGT 4010 Administrative Policy **Cr. Hrs. 3**

Studies of policies available to business enterprise; with case studies to focus attention on problems involved in formulating and administering policies with interdisciplinary considerations. Take only in final term of program or with consent of department head. Prerequisite: prior to being admitted to GMGT 4010, students must be in Year 4, in the final term prior to graduation in the Asper School and have successfully completed (with a minimum grade of (D) in each course) all 30 credit hours of courses specified in Year 2 of the 4-Year Program. Prerequisite or Concurrent Requirement: all remaining core courses specified in Year 3 and 4 of the 4-Year Program (with a minimum grade of (D) in each course).

GMGT 4110 Commercial Law 2 **Cr. Hrs. 3**

Aspects of the law relating to business units, including a study of the law relating to proprietorships, partnerships and corporations, and secured transactions. Not taught every year. Prerequisite: GMGT 3300 (D).

GMGT 4210 Seminar in Management and Capitalism **Cr. Hrs. 3**

This course provides students with an understanding of the institutions, developments, and debates associated with modern capitalism and their implications for management. Students will explore alternative management perspectives and bi-directional interactions within the context of larger issues. It is designed to ensure that students are introduced to a variety of different perspectives, and that no single perspective is unduly privileged over others. Prerequisite: GMGT 1010 (D) or GMGT 2120 (D).

SECTION 5.21 Business Administration- Human Resources/Industrial Relations Course Descriptions 2000 Level (HRIR)

HRIR 2440 Human Resource Management **Cr. Hrs. 3**

Introduction to principles and procedures in the management of human resources. Topics include diversity management, conflict resolution, employment, law, planning, job analysis, performance appraisal, staffing, compensation, union-management relations, and current issues.

SECTION 5.22 Business Administration-Human Resource/Industrial Relations Course Descriptions 3000 Level (HRIR)

HRIR 3430 Selected Topics in Industrial Relations **Cr. Hrs. 3**

Analysis of specific topics or issues in the employment relationships in an industrial society. Prerequisites: [HRIR 2440 (D)] and [HRIR 3450 (D)] or consent of instructor.

HRIR 3450 Labour and Employment Relations **Cr. Hrs. 3**

This course is to enhance knowledge and understanding of labour and employment relations in Canada and beyond. It addresses various issues and debates about these relations; their history, structure, and functioning; management employment relations practices; the role of labour unions; collective bargaining; and contemporary developments and alternatives.

SECTION 5.23 Business Administration- Human Resources/Industrial Relations Course Descriptions 4000 Level (HRIR)

HRIR 4410 Staffing and Management Development **Cr. Hrs. 3**

A review of: employment planning; recruitment and selection; internal placement; out placement; performance appraisal; career development. Training needs analysis, methods and evaluation. Prerequisite: HRIR 2440 (D).

HRIR 4420 Compensation **Cr. Hrs. 3**

A review of the major concepts and design of compensation systems including: strategy, internal equity, external competitiveness, rewarding individual contributions, performance incentives, employee benefits, government regulations, union role in compensation; budgets and administration. Prerequisite: HRIR 2440 (D).

HRIR 4480 Collective Bargaining and Administration **Cr. Hrs. 3**

Focuses on the legal framework, processes and issues pertaining to the negotiation and administration of collective agreements, building on the foundation provided by HRIR 3450. Students will learn practical strategies for collective bargaining by participating in mock collective bargaining and how to conduct in-depth analysis of grievance arbitration cases. May not be held with HRIR 4481. Prerequisites: HRIR 3450 (D) or HRIR 3451 (D).

**HRIR 4520 Comparative Industrial Relations and Human
Resource Management** **Cr. Hrs. 3**

To provide an international perspective on industrial relations (IR) and human resource management (HRM) through analysis and comparison of IR systems and HRM practice across selected countries and of current developments therein. Also covers theories and issues relevant to these topics. Students are encouraged, but not required, to complete HRIR 3450 (D) prior to taking this course.

SECTION 5.24 Business Administration- International Business Course Descriptions 2000 Level (INTB)

INTB 2200 International Management **Cr. Hrs. 3**

Analysis of the practice of management in an international setting. Examines the cultural, political, and economic environments which influence managerial decision-making in an international context.

SECTION 5.25 Business Administration- Leadership Course Descriptions (LEAD)

LEAD 2010 Learning to Lead **Cr. Hrs. 3**

This seminar provides students with an introduction to and understanding of effective leadership and its application to a variety of group and organizational contexts. The classes encourage interdisciplinary discussions of theoretical, philosophical, historical, and technical elements of effective leadership. The course allows students to reflect on and develop their own leadership style through interactive lectures, experiential activities, and action learning in groups and organizations in which students want to lead and be led. This seminar is intended for all students that have an interest in leadership theory and effective leadership practices. Students may not hold credit for both LEAD 2010 and ARTS 1160. Prerequisite: Students must have completed 15 credit hours of passed courses to register in LEAD 2010.

LEAD 3010 Negotiation and Conflict Management **Cr. Hrs. 3**

Leaders are regularly called upon to manage conflict, promote cooperation, and resolve competing interests. With a focus on negotiation as a means of conflict resolution, this course blends contemporary research and theory with practical, first-hand experience. Students' effectiveness as negotiators will be developed with readings and class discussions focused on the social and psychological underpinnings of negotiation, and applied with weekly hands-on experiences, ranging from bilateral bargaining games to complex, multi-issue, multilateral negotiation scenarios. Prerequisites: Year three standing (or by permission of instructor).

LEAD 3020 Team Building and Diversity **Cr. Hrs. 3**

The ability to work effectively with team members is crucial to individual functioning and promotion within organizations. This course examines the structure and dynamics of teams with an aim to understanding team-building, team dynamics, diversity, and managing team conflict. Part of working effectively in teams is understanding diversity and how to encourage collaboration in diverse teams. This course will therefore cover topics related to diversity and cross-cultural awareness. Equivalent to but students may not hold credit for LEAD 3020 and GMGT 3020 with topics Diversity Management and Team Building or Diversity Management or Team Building. Prerequisites: GMGT 2060 (D) [or GMGT 2080 (D)] and GMGT 2070 (D).

LEAD 3030 Corporate, Social, and Environmental Responsibility **Cr. Hrs. 3**

This course examines the responsibilities of business that accompany maximizing shareholder wealth. This includes balancing the needs of a variety of stakeholders (including owners, employees, customers, suppliers, competitors, neighbours, future generations) among a variety of forms of well-being (e.g. financial, ecological, environmental, social, spiritual, physical). Students will learn theory and best practices. Students are encouraged to take this course in the final two years of their program of studies at the I.H. Asper School of Business. Prerequisites: GMGT 1010 (D) and GMGT 2060 (D) [or GMGT 2080] (D).

LEAD 3040 Special Topics in Leadership and Organization **Cr. Hrs. 3**

The content of this course will change from year to year based on: cutting edge topics, research innovations, and trends in leadership. Example topics might include: Organizational Health and Safety; Organizational Justice; Women and Leadership; Advanced Organizational Behaviour; Advanced Organizational Theory. Prerequisites: GMGT 2060 (D) [or GMGT 2080 (D)] and GMGT 2070 (D), or by permission of instructor.

LEAD 4010 Leading Change **Cr. Hrs. 3**

Organizations regularly face change due to market demands, competition, and economic pressures. The ability to lead change effectively is crucial to organizational success. This course will focus on how to: understand resistance to change, manage change processes, and support employees in times of uncertainty. Prerequisites: GMGT 2060 (D) [or GMGT 2080] (D) and GMGT 2070 (D).

LEAD 4020 Leadership, Power and Politics in Organizations **Cr. Hrs. 3**

This course provides students with an introduction to and understanding of effective leadership and its application to a variety of group and organizational contexts. The course will also describe and enable students to make sense of organizations as political entities and understanding the use of power and social influence. The classes encourage interdisciplinary discussions of theoretical, historical, and practical elements of effective leadership and power. Through interactive lectures and experiential activities, students will have the opportunity to reflect on and develop their own leadership style, to understand how to use and manage power, and to recognize and apply social influence tactics. Students entering second year are strongly recommended to take LEAD 2010 prior to taking LEAD 4020. Prerequisite: GMGT 2070 (D).

SECTION 5.26 Interdepartmental Courses 2000 Level (IDM)

IDM 2982 Co-op Work Term 1 **Cr. Hrs. 1**

Work assignment in business, industry, or government for students registered in the Asper School of Business co-operative option. For Asper students only. Prerequisite: Written permission from the Asper School of Business Co-operative Education Office. May not be held with the former IDM 2980.

SECTION 5.27 Interdepartmental Course Descriptions 3000 Level (IDM)

IDM 3982 Co-op Work Term 2 **Cr. Hrs. 1**

Work assignment in business, industry, or government for students registered in the Asper School of Business co-operative option. For Asper Students only. Prerequisites: IDM 2982 with a minimum grade of C and written permission from the Asper School of Business Cooperative Education Office. May not be held with the former IDM 3980.

SECTION 5.28 Interdepartmental Courses 4000 Level (IDM)

IDM 4050 Readings in Management **Cr. Hrs. 3**

Supervised readings in one of the areas of Management. Students are limited to a maximum of six hours of readings and research courses.

IDM 4070 Management Research 1 **Cr. Hrs. 3**

Individually supervised preparation of a detailed research proposal for an advanced study in one of the areas of Management. Students are limited to a maximum of six hours of readings and research courses.

IDM 4080 Management Research 2 **Cr. Hrs. 3**

Individually supervised research and preparation of a paper in one of the areas of Management based on the proposal developed in IDM 4070. Students are limited to a maximum of six hours of readings and research courses.

IDM 4982 Co-op Work Term 3 **Cr. Hrs. 1**

Work assignment in business, industry, or government for students registered in the Asper School of Business co-operative option. For Asper Students only. Prerequisites: IDM 3982 with a minimum grade of C and written permission from the Asper School of Business Co-operative Education Office. May not be held with the former IDM 4980.

SECTION 5.29 Marketing Course Descriptions 2000 Level (MKT)

MKT 2210 Fundamentals of Marketing **Cr. Hrs. 3**

Analysis of marketing problems, emphasizing various alternatives available for achieving economic efficiency in the distribution process; public policy with respect to marketing.

SECTION 5.30 Marketing Course Descriptions 3000 Level (MKT)

MKT 3220 Marketing Research **Cr. Hrs. 3**

Study of the planning and implementation of research required to make informed marketing decisions. May not be held with MKT 3221. Prerequisite: MKT 2210 (D) or MKT 2211 (D) or consent of instructor.

MKT 3230 Consumer Behavior **Cr. Hrs. 3**

Study of buying behaviour of individuals and organizations as affected by psychological and sociological forces within society. Prerequisite: MKT 2210 (D).

MKT 3240 Selected Topics in Marketing **Cr. Hrs. 3**

Analysis of marketing as it relates to specialized fields. Prerequisite: MKT 2210 (D).

MKT 3242 Brand Management**Cr. Hrs. 3**

Examination of the holistic and integrative considerations that affect brand management. May not be held with MKT 3240 when titled "Branding". Prerequisites: MKT 2210 (D) or MKT 2211 (D).

MKT 3246 Sustainability Marketing**Cr. Hrs. 3**

This course will examine strategies that organizations can adopt to be successful in meeting the triple bottom line (people, planet, profit) within the broader framework of sustainability. May not be held with MKT 3240 when titled "Sustainability Marketing". Prerequisites: MKT 2210 (D) or MKT 2211 (D).

MKT 3248 Digital Marketing**Cr.Hrs. 3**

This course will explore various digital marketing channels, best practices, tools and techniques to analyze how marketing strategies and tactics are used to capture opportunities and create value for consumers in the digital age. May not be held with MKT 3240 when titled Digital Marketing. Prerequisite: MKT 2210 (D) or MKT 2211 (D).

MKT 3300 International Marketing**Cr. Hrs. 3**

A study of international similarities and differences in marketing structures, functions and processes as related to the socio-economic and cultural environment and a consideration of the opportunities and problems of international marketing. Prerequisite: MKT 2210 (D).

MKT 3310 Retail and Channel Management**Cr. Hrs. 3**

The study of the functions performed by traditional and e-commerce distributors. Topics include location and competitive analysis, promotion, merchandising, buying, design, selection and historical development. Topics include location and competitive analysis, promotion, merchandising, buying, design, selection and historical development. Prerequisite: MKT 2210 (D).

MKT 3340 Services Marketing**Cr. Hrs. 3**

An examination of the differences in the marketing of goods versus services. Topics covered include service process design and management, problem identification and resolution, positioning issues, the importance of human resources, and promotional issues. Prerequisite: MKT 2210 (D).

MKT 3390 Integrated Marketing Communications**Cr. Hrs. 3**

The process of using promotional tools in a unified way so that a synergistic communications is created. The course examines the roles of advertising, sales promotion, direct marketing, and the internet within this broader framework. Prerequisite: MKT 2210 (D).

SECTION 5.31 Marketing Course Descriptions 4000 Level (MKT)

MKT 4210 Marketing Management**Cr. Hrs. 3**

An examination of strategies and tactics marketing managers use for products and services at various stages in the product life cycle. Uses qualitative and quantitative analyses to develop critical thinking essential for making marketing decisions. Can only be taken in final year of program. Prerequisites: [MKT 3220 (D) or MKT 3230 (D)], and [one other 3000 or 4000 level Marketing course (D)], and [ACC 1110 (D)]. Pre- or co-requisite: either MKT 3220 (D) or MKT 3230 (D), but not both.

MKT 4270 Sales Management**Cr. Hrs. 3**

The study of the management of the personal selling area including an examination of the selling function, the sales manager, and sales management. Prerequisite: MKT 2210 (D).

SECTION 5.32 Supply Chain Management-Management Science Course Descriptions 2000 Level (MSCI)

MSCI 2150 Introduction to Management Sciences**Cr. Hrs. 3**

An introduction to management science techniques and models. Topics include linear programming, distribution problems, decision theory and queuing models. May not be held with ABIZ 2520 or MSCI 2151. Prerequisites: [a grade of "C" or better in MATH 1230 or MATH 1520 or MATH 1500 (or MATH 1501)] and [a grade of "C" or better in STAT 1000 (or STAT 1001) or STAT 1150].

SECTION 5.33 Supply Chain Management-Management Science Course Descriptions 3000 Level (MSCI)

MSCI 3400 Intermediate Management Science**Cr. Hrs. 3**

Operations research models used in the analysis of management problems. Topics include network analysis, deterministic inventory models, dynamic programming and game theory. Prerequisite: MSCI 2150 (D) or consent of instructor.

SECTION 5.34 Supply Chain Management -Management Science Course Descriptions 4000 Level (MSCI)

MSCI 4200 Topics in Management Science**Cr. Hrs. 3**

Topics of current interest in management science. Prerequisite: MSCI 2150 (D). Not taught every year.

MSCI 4220 Management Science Models in Business and Industry**Cr. Hrs. 3**

An applied course providing practical experience in modeling and solving business and industrial problems. Emphasis to be placed upon analysis, formulation, solution and implementation. Prerequisite: MSCI 3400 (D) or MSCI 4200 (D) or MSCI 4230 (D) or MSCI 4200 (D).

SECTION 5.35 Supply Chain Management-Operations Course Descriptions 3000 Level (OPM)

OPM 3630 Simulation Models for Operations Management**Cr. Hrs. 3**

Seminar on the concept, techniques, and application of simulation for problem-solving and decision-making in operations management. Existing operational models will be studied and applied in computerized form. Prerequisite: Consent of instructor.

OPM 3640 Project Planning and Control**Cr. Hrs. 3**

Seminar on management of complex projects of various kinds with emphasis on planning and control by means of network methods. PERT and CPM methods computer applications. Prerequisite 3260 or consent of instructor.

OPM 3650 Management of Quality and Reliability**Cr. Hrs. 3**

This course offers a practical introduction to modern quality assurance and reliability management concepts, methods and practices. It builds upon the

relevant subject matter in basic courses in production management and prepares for positions in the field of quality and reliability management. Prerequisite: SCM 2160 [or the former OPM 2600 (D)] and STAT 1000 (C).

OPM 3660 Operations Management in Service Organizations Cr. Hrs. 3

This course explores the applications of operations management concepts to the management of service operations. The characteristics of a service operation, while generally comparable to manufacturing a product, often place a unique demand upon the service manager. These demands, along with the analysis of actual company situations through case study applications, are emphasized. Prerequisite: SCM 2160 [or former OPM 2600] (D) and STAT 1000 (C).

OPM 3670 POM Project in Industry Cr. Hrs. 3

An applied course, designed to bridge the gap between theoretical concepts developed in previous POM courses and current industrial practices by means of an industrial project. Prerequisites: [SCM 2160 or former OPM 2600 (D)] and STAT 1000 (C) or consent of instructor.

SECTION 5.36 Supply Chain Management- Operations Course Descriptions 4000 Level (OPM)

OPM 4620 Production Management Seminar Cr. Hrs. 3

Problems, development, and application of analytical methods in production and operations management with emphasis on planning and control. Prerequisite: MSCI 2150 (D) and SCM 2160 or OPM 2600 (D).

SECTION 5.37 Supply Chain Management- Supply Chain Management Course Descriptions 2000 Level (SCM)

SCM 2160 Supply Chain and Operations Management Cr. Hrs. 3

Study of supply chain management (SCM) and operations management. Positions operations management as a critical area of study within SCM. Focuses on process approach and system design. May not hold credit for both SCM 2160 and the former OPM 2600. Prerequisites: None.

SCM 2210 Transportation Principles Cr. Hrs. 3

Demand forecasting, cost analysis, regulation of carriers, role of transport in economic development, project appraisal and transport planning. Also offered as ABIZ 2210 by the Department of Agribusiness and Agricultural Economics. May not be held with ABIZ 2210. Prerequisite: [ECON 1010 and ECON 1020 (C)] or former ECON 1200 (D).

SCM 2220 Selected Topics in Logistics and Transportation Cr. Hrs. 3

This course provides coverage on a number of critical topics in Supply Chain Logistics and Transportation. Areas of emphasis are based on current issues confronting managers and regulators/policy makers such as global supply chain logistics and transportation policy.

SCM 2230 Introduction to Supply Chain Management Cr. Hrs. 3

An examination of the management activities that are necessary to ensure an efficient flow of materials, funds, and information among the various organizations in supply chains, from the acquisition of raw materials to the delivery of the finished product to the end user.

SCM 2240 Purchasing and Supply Management Cr. Hrs. 3

Purchasing and supply management is an increasingly important element of corporate strategy as global supply chains become longer and more

complex. In this course, students will learn about a major paradigm shift in purchasing, from a clerical activity to a strategic corporate function. The course covers strategic supply management, inter-organizational relationships, product and service specifications, price and cost analysis, negotiation, quality management, supply chain information technology, and other important purchasing topics, from a supply chain management perspective. Students may not hold credit for both SCM 2240 and SCM 2220 Topic: Purchasing Management.

SCM 2250 Transportation Infrastructure Planning and Management Cr. Hrs. 3

This course introduces students to the basic principles and practices of transportation infrastructure planning and management, providing students with adequate knowledge on the nature of transportation infrastructure, its development, management structures, and policies. Through different teaching methods, it aims to enable students to understand the major issues and challenges that transport planners, managers and policy makers are facing, and enable them to develop the ability of applying theoretical knowledge into practice. May not be held with SCM 2220 when titled "Transportation Infrastructure Planning and Management".

SCM 2260 Transportation Strategy and Policy Cr. Hrs. 3

This course provides students relevant fundamental knowledge on the major concepts of competitive strategies, governance and policies, as well as their application in the transportation sector. Through different teaching methods, this course aims to enable students to develop the ability to put strategic theories and policy concepts into practice within the transportation sector, both in Canada and the world. May not be held with SCM 2220 when titled "Transportation Strategy and Policy".

SECTION 5.38 Supply Chain Management- Supply Chain Management Course Descriptions 3000 Level (SCM)

SCM 3230 Global Supply Chains Cr. Hrs. 3

The course provides a global orientation to supply chain management, with a particular emphasis on the global linkages between organizations in international supply chains. Supply chain management practices in selected countries are also examined. Prerequisite: SCM 2230 (D) or SCM 3360 (D); or consent of instructor.

SCM 3250 Airline Business Cr. Hrs. 3

This course provides a practical overview of the modern airline business from a global perspective. Topics such as airline pricing, airline alliance and airline-airport interaction will be included. May not be held with SCM 2220 when titled "Airline Business". Prerequisite: SCM 2230 (D) or consent of instructor.

SCM 3260 Supply Chain Sustainability Cr. Hrs. 3

This course covers supply chain sustainability. From a functional viewpoint, supply chain management (SCM) includes logistics/transportation, purchasing and certain elements of marketing. Sustainability is a multi-dimensional concept, spanning ecological, social, cultural and economic issues. The course includes a special focus on sustainable transportation. May not be held with SCM 2220 when titled "Supply Chain Sustainability". Prerequisite: GMGT 2010 (D) or consent of instructor.

SCM 3270 Lean Management Cr. Hrs. 3

Lean Management will provide students with a basic understanding of the components of Lean Management and the opportunity to practically apply the principles, methods and tools of Lean Management to real problems.

Students will learn how to analyze case studies and apply course material in real-world situations. May not be held with SCM 2220 when titled "Lean Management". Prerequisites: a grade of "D" or better in SCM 2160 (or SCM 2161) or SCM 2230 or ABIZ 2520 or MSCI 2150 (or MSCI 2151) or the former OPM 2600 (or OPM 2601) or consent of the instructor.

SCM 3280 Project Management in Supply Chain **Cr. Hrs. 3**

Topics covered in this course will include project initiating, planning, executing, monitoring and controlling, and closing. Following the PMI methodology, all ten knowledge areas will be covered, including: integration, scope, schedule, cost, HR, quality, risk, communication, procurement and stakeholder management. Students will learn how to analyze case studies and effectively use team work to develop strong planning and an analytical approach pertinent to project management. May not be held with SCM 2220 when titled "Project Management in Supply Chain". Prerequisites: a grade of "D" or better in SCM 2160 (or SCM 2161) or SCM 2230 or ABIZ 2520 or GMGT 1010 (or GMGT 1011) or MIS 2000 (or MIS 2001) or MSCI 2150 (or MSCI 2151) or the former OPM 2600 (or OPM 2601) or consent of instructor.

SCM 3360 Supply Chain Logistics **Cr. Hrs. 3**

The course provides an international/global orientation to logistics and supply chain management. Prerequisite: MKT 2210 (D).

SECTION 5.39 Supply Chain Management- Supply Chain Management Course Descriptions 4000 Level (SCM)

SCM 4250 Beyond Business: Advanced Issues in Supply Chain Management **Cr. Hrs. 3**

The material covered in this course moves beyond a business perspective and analyzes the relationship between supply chain management (SCM) and other parts of society as a whole. It examines the issues that arise as supply chain management interests with government and society. May not be held with the former SCM 4240. Prerequisite: SCM 2230 (D); or consent of instructor.

Marcel A. Desautels Faculty of Music

Dean: Dr. Edward Jurkowski
Associate Dean(s): Charles Horton
Campus Address/General Office: T319 Tache Hall, 136 Dafoe Road
Email Address: music@umanitoba.ca
Telephone: (204) 474-9310
Fax: (204) 474-7546
Website: umanitoba.ca/music
Academic Staff: Please refer to the Faculty of Music website at

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SECTION 9: Course Descriptions

SECTION 1: Degree and Diploma Programs Offered

| Degree | Years to Complete | Total Credit Hours |
|--|-------------------|---------------------------------------|
| Bachelor of Music | 4 * | 126 |
| Bachelor of Music (Composition) | 4 * | 126 |
| Bachelor of Music (History) | 4 * | 126 |
| Bachelor of Music (Performance) | 4 * | 126 |
| Bachelor of Music/ Bachelor of Education | 5 ** | 174 – 177 (currently under review) |
| Bachelor of Jazz Studies | 4 * | 126 |
| Post-Baccalaureate Diploma in Performance | 1 | 30 |

* Minimum time to graduation: Four years if admission is directly from high school and five years if admission is via University 1.

** An integrated degree that combines Music with Education; minimum time to graduation: five years in Music and Education if admission is directly from high school and six years if admission is via University 1.

SECTION 2: Admission to Music

2.1 Course Requirements for Admission from High School

Admission to the Faculty is directly from high school, although admission from University 1 is an option.

Other requirements

High school prerequisites: Music 40S is strongly recommended, while a second 40S language is recommended. Private lessons in your instrument and formal instruction in music theory and keyboard study are strongly recommended. Good academic performance in subject areas other than music is also strongly recommended. Refer to: umanitoba.ca/faculties/music/prospective/Undergraduate.html for audition information or musicadmissions@umanitoba.ca

SECTION 3: Academic Regulations

The provisions of the chapter, [General Academic Regulations and Requirements](#), and the chapter, [University Policies](#), apply to all students. In addition, the Faculty has regulations and requirements, published below, which apply specifically to its students. Detailed information regarding regulations is available in the general office of the Faculty. The aim of the Bachelor of Music and Bachelor of Jazz Studies programs is to provide a basic framework of knowledge and ability; both theoretical and practical, from which either professional activities or graduate specialization can start. The Bachelor of Music four-year program contains concentrations in specified areas in the third and fourth years. After their first two years, students select the area in which their interests and abilities are strongest. The faculty offers four-year programs leading to the degree of either Bachelor of Music, with the following concentrations: Performance, Composition, History, and General Music and the five-year Integrated Bachelor of Music/Bachelor of Education. The four-year Bachelor of Jazz Studies is a direct entry program from high school. Practical study is offered in standard classical and jazz instruments and voice. Ensemble work is included in all years of the program. Music courses are available to students in other faculties and schools. Consult section 7.0 or the appropriate section of this Calendar for regulations.

3.1 Written English Requirement and Mathematics Requirement

The University's written requirement is met through any three credit hour course that fulfills the "W" requirement. The University's mathematics requirement is met through MUSC 3230 Acoustics of Music or a three credit hour MATH 1XXX or STAT 1XXX course. These courses are listed as requirements to complete the first year of all Bachelor of Music programs and Bachelor of Jazz Studies.

3.2 Electives (Non-Music)

Students are required to take course(s) in a subject other than music for each year of the Bachelor of Music and Bachelor of Jazz Studies program to a total of 18 credit hours. With the exception of the University's written English and Mathematics Requirements in the first year, the student is free to choose any subject but is advised to seek the advice of faculty.

3.3 Ensembles

The Faculty offers a wide variety of opportunities for participation in ensembles such as the Women's Choir, Concert Choir, University Concert Band, University Singers, University Symphony Orchestra, University Wind Ensemble, University Jazz Orchestra, Jazz Ensembles, Opera Theatre, Chamber Ensembles, Percussion Ensemble, Musical Theatre, XIE (eXperimental Improv Ensemble), and other wind, string and keyboard combinations. Bachelor of Music students are required to participate in two ensembles each year for four years. Bachelor of Jazz Studies students are required to participate in one ensemble each year for four years. The Ensemble Committee determines placement in credit ensembles; such

participation will normally be in ensembles directly relevant to the student's major practical study area. Students from other faculties and non-university musicians are welcome to participate as space and instrumental balance allow, but all participation is at the discretion of the conductor or coach of the ensemble. Some ensembles are offered for credit in other faculties.

3.4 Scholarships

Entrance and continuing scholarships are available for Faculty students. Details may be obtained from Financial Aid and Awards or the Marcel A. Desautels Faculty of Music.

3.5 Scholastic Progress

Within the first week of the term, students will be informed of the organization of materials, the nature and timing of testing, and the proportionate weighting of marks that contribute to the final grade in all academic courses at the Marcel A. Desautels Faculty of Music. Regulations regarding the grading of all practical courses at the Faculty are contained in the Student Handbook; special attention is called to the Concert Credit and Master Class Attendance Policy which is an integral part of the grading system for Major Practical Study in each year of the program. A grade of "C" or better is required in each Music course throughout the Bachelor of Music and Bachelor of Jazz Studies programs, except where the Faculty Student Handbook states otherwise. Students who take Music elective courses and fail to achieve a minimum grade of "C" in them should repeat these courses. Due to the system of rotating electives, this may not be possible and in such a case another approved Music elective may be substituted. Supplemental examinations are not normally given in the Faculty, with the following exception: where a jury mark of "D" has been assigned in Major Practical Study, the juried examination may be reheard prior to the next registration. A sessional (September to April) Grade Point Average of less than 2.0 (C), or failure to achieve a grade of "C" or better in two Music courses will result in a student being placed on probation. While on probation, the student remains in the program but is subject to a set of conditions that are established by the Faculty of Music. A student failing to meet these conditions may be placed on suspension. Each student is permitted a maximum 21 credit hours of failed Music courses in the Bachelor of Music and Bachelor of Jazz Studies programs. Students will not be permitted to register for a required music course more than twice without the permission of the Dean.

3.6 Dean's Honour List

Bachelor of Music and Bachelor of Jazz Studies students who achieve a sessional (September to April) Grade Point Average of 3.5 and are registered in a minimum of 80% of a full-time program in both fall and winter terms will be eligible for the Dean's Honour List. Students who are granted incomplete or deferred status will not be eligible.

3.7 Attendance

Regular attendance is expected of all students in all courses. Any unexcused absences from ensemble or practical study courses or three unexcused absences from any other music course may result in the student being required to withdraw from the course or ensemble, or may result in a failing grade being assigned. Students absent from a class for three or more consecutive meetings due to illness may be required to present a certificate from a physician. Prior approval for extended absences from class for reasons other than illness must be obtained from the instructor and the Dean. Unexcused absence from a class test may result in a grade of zero for the test. Make-up tests may be allowed in special circumstances.

SECTION 4: Program Requirements

Bachelor of Music, Bachelor of Jazz Studies, Years 1-4

These programs are in effect for students admitted since 1997-98. Students who entered in previous years should consult earlier calendars.

4.1 Bachelor of Music- General (Performance, History and Composition)

Year One

| Bachelor of Music: General | | |
|----------------------------|---|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study (Composition Students take MUSC 1404 – Introduction to Composition 1 (3 credit hours) and MUSC 1414 - Introduction to Composition 2 (3 credit hours)) | 6 |
| * MUSC 3230 | Acoustics of Music | 3 |
| | ** Written English requirement | 3 |
| Total Credit Hours | | 32 |

* a 3 credit hour MATH 1xxx or STAT 1xxx may be taken in place of MUSC 3230, Acoustics of Music

**any 3 credit hour course that meets the written English requirement; consult with an advisor before making a selection

Year Two

| Bachelor of Music: General | | |
|----------------------------|-------------------------------|---|
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| | * Core Music History Elective | 3 |
| | * Core Music History Elective | 3 |
| | Non-Music Electives | 6 |

| | | |
|---------------------------|--|-----------|
| Total Credit Hours | | 32 |
|---------------------------|--|-----------|

Third Year

| | | |
|-----------------------------------|-------------------------------|-----------|
| Bachelor of Music: General | | |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3974 | Music Theory After 1900 | 3 |
| | * Core Music History Elective | 3 |
| | **Music Theory Elective | 3 |
| | Music Elective | 3 |
| | Music or Non-Music Elective | 3 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

| | | |
|---|-------------------------------|-----------|
| Bachelor of Music: Performance | | |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3550 | Recital 1 | 3 |
| MUSC 3974 | Music Theory After 1900 | 3 |
| | * Core Music History Elective | 3 |
| | Music Electives | 6 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |
| NOTE: A grade of at least "B" in MUSC 3550 is required to continue in the Performance Concentration. | | |

| | | |
|-----------------------------------|-------------------------|---|
| Bachelor of Music: History | | |
| MUSC 3050 | Research Methods | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3974 | Music Theory After 1900 | 3 |

| | | |
|---------------------------|-------------------------------|-----------|
| | * Core Music History Elective | 3 |
| | Music History Elective | 3 |
| | **Music Theory Elective | 3 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

| | | |
|---------------------------------------|---|-----------|
| Bachelor of Music: Composition | | |
| MUSC 2460 | Conducting | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3650 | Electroacoustic Music | 3 |
| MUSC 3964 | History of Western Art Music After 1900 | 3 |
| MUSC 3974 | Music Theory After 1900 | 3 |
| | Music or Non-Music Elective | 3 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

* See Section 4.4: Core Music History Electives

**Music Theory Electives: MUSC 2112, MUSC 2122 (Jazz Theory 1 & 2), MUSC 3150 (Orchestration), MUSC 3650 (Electroacoustic), MUSC 4330 (Advanced Analysis), Topics: Advanced Counterpoint

Year Four

| | | |
|-----------------------------------|--|-----------|
| Bachelor of Music: General | | |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4470 | Major Practical Study | 6 |
| or MUSC 4160 | Major Practical Study | 3 |
| | * Core Music History Elective | 3 |
| | Music Electives (9 credit hours if MUSC 4160 is elected) | 6 |
| | Music or Non-Music Electives | 6 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

| Bachelor of Music: Performance | | |
|---------------------------------------|-------------------------------|-----------|
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4470 | Major Practical Study | 6 |
| MUSC 4560 | Recital 2 | 6 |
| | * Core Music History Elective | 3 |
| | Music Electives | 6 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

NOTE: A grade of at least "B" in MUSC 4560 is required for graduation with the Performance Concentration.

| Bachelor of Music: History | | |
|-----------------------------------|--|-----------|
| MUSC 4110 | Special Area (Paper) | 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4470 | Major Practical Study | 6 |
| or MUSC 4160 | Major Practical Study | 3 |
| | * Core Music History Elective | 3 |
| | Music History Elective | 3 |
| | Music Electives (9 credit hours if MUSC 4160 is elected) | 6 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

| Bachelor of Music: Composition | | |
|---------------------------------------|-------------------------------|---|
| MUSC 3550 | Recital 1 | 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4470 | Major Practical Study | 6 |
| MUSC 4650 | Interactive Computer Music | 3 |
| MUSC 4660 | Computer Assisted Composition | 3 |
| | * Core Music History Elective | 3 |
| | Music Theory Elective | 3 |

| | | |
|---------------------------|---------------------|-----------|
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

* See Section 4.4: Core Music History Electives

4.2 Bachelor of Jazz Studies

| Bachelor of Jazz Studies | | |
|---------------------------------|--|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1182 | Jazz Ensemble 1 | 2 |
| MUSC 1192 | Jazz Rhythm and Performance Techniques | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| * MUSC 3230 | Acoustics of Music | 3 |
| | ** Written English Requirement | 3 |
| Total Credit Hours | | 32 |

* a 3 credit hour MATH 1xxx or STAT 1xxx may be taken in place of MUSC 3230, Acoustics of Music

**any 3 credit hour course that meets the written English requirement; consult with an advisor before making a selection

Year Two

| Bachelor of Jazz Studies | | |
|---------------------------------|-----------------------|-----------|
| MUSC 2072 | Jazz History 1 | 3 |
| MUSC 2082 | Jazz History 2 | 3 |
| MUSC 2112 | Jazz Theory 1 | 3 |
| MUSC 2122 | Jazz Theory 2 | 3 |
| MUSC 2182 | Jazz Ensemble 2 | 2 |
| MUSC 2192 | Jazz Improvisation 1 | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 32 |

Year Three

| Bachelor of Jazz Studies | | |
|---------------------------------|----------------------------------|-----------|
| MUSC 3112 | Jazz Composition and Arranging 1 | 3 |
| MUSC 3182 | Jazz Ensemble 3 | 2 |
| MUSC 3192 | Jazz Improvisation 2 | 2 |
| MUSC 3272 | Jazz Performance Skills | 3 |
| MUSC 3442 | Jazz Pedagogy 1 | 3 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3554 | Jazz Recital 1 | 3 |
| | Music Elective | 3 |
| | Non-Music Electives | 6 |
| Total Credit Hours | | 31 |

NOTE: A grade of at least "B" in MUSC 3554 is required to continue in the Bachelor of Jazz Studies Program

Year Four

| Bachelor of Jazz Studies | | |
|---------------------------------|----------------------------------|---|
| MUSC 4112 | Jazz Composition and Arranging 2 | 3 |
| MUSC 4182 | Jazz Ensemble 4 | 2 |
| MUSC 4192 | Jazz Improvisation 3 | 2 |
| MUSC 4442 | Jazz Pedagogy 2 | 3 |
| MUSC 4470 | Major Practical Study | 6 |
| MUSC 4562 | Jazz Recital 2 | 6 |
| | Music Elective | 3 |
| | Non-Music Electives | 6 |
| Total Credit Hours | 31 | |

NOTE: A grade of at least "B" in MUSC 4562 is required for graduation with a Bachelor of Jazz Studies

4.3 Electives: Third & Fourth Years

Electives: Third and Fourth Years, All Concentrations

| Course Number | Course Title | Credit Hours |
|---------------|----------------|--------------|
| MUSC 2072 | Jazz History 1 | 3 |
| MUSC 2082 | Jazz History 2 | 3 |
| MUSC 2110 | Music Theory 3 | 3 |

| | | |
|-----------|---|---|
| MUSC 2112 | Jazz Theory 1 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2122 | Jazz Theory 2 | 3 |
| MUSC 2460 | Conducting | 3 |
| MUSC 3050 | Research Methods (History Concentration requirement) | 3 |
| MUSC 3054 | Medieval and Renaissance Music History | 3 |
| MUSC 3064 | Baroque Music History | 3 |
| MUSC 3074 | Classical Music History | 3 |
| MUSC 3084 | Romantic Music History | 3 |
| MUSC 3090 | Introduction to Musicology | 3 |
| MUSC 3100 | Opera Repertoire | 3 |
| MUSC 3104 | History of Opera 1: From Monteverdi to Mozart | 3 |
| MUSC 3114 | History of Opera 2: From Mozart to the Modern Era | 3 |
| MUSC 3130 | Music for Children 1 | 6 |
| MUSC 3140 | Music for Children 2 | 6 |
| MUSC 3150 | Orchestration (Composition Concentration requirement) | 3 |
| MUSC 3230 | Acoustics of Music (fulfills University "M" requirement) | 3 |
| MUSC 3270 | Performance Skills | 3 |
| MUSC 3360 | Topics in Music Education | 3 |
| MUSC 3380 | From Rock to Rap and Beyond: A History of Popular Music in the Later 20th Century | 3 |
| MUSC 3390 | From Ragtime to Rock 'n' Roll: A History of Popular Music in the 20th Century | 3 |
| MUSC 3404 | From New Wave to Rave: A History of Popular Music in the Late 20th Century | 3 |
| MUSC 3480 | Minor Practical Study | 3 |
| MUSC 3620 | Independent Study 1 | 3 |
| MUSC 3650 | Electroacoustic Music | 3 |
| MUSC 3690 | Percussion Techniques | 3 |
| MUSC 3730 | Early Music Development | 3 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 3780 | Woodwind Techniques | 3 |
| MUSC 3790 | Brass Techniques | 3 |

| | | |
|-----------|--|---|
| MUSC 3800 | String Techniques | 3 |
| MUSC 3820 | Topics in Music | 3 |
| MUSC 3830 | Topics in Music | 3 |
| MUSC 3840 | Topics in Music | 3 |
| MUSC 3850 | Topics in Music | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 3894 | Guitar Techniques | 3 |
| MUSC 3964 | History of Western Art Music After 1900 | 3 |
| MUSC 3974 | Music Theory After 1900 | 3 |
| MUSC 4010 | French Diction and Repertoire | 3 |
| MUSC 4020 | Italian Diction and Repertoire | 3 |
| MUSC 4030 | German Diction and Repertoire | 3 |
| MUSC 4130 | History of Women in Music | 3 |
| MUSC 4140 | History of Canadian Music | 3 |
| MUSC 4154 | Choral Repertoire | 3 |
| MUSC 4330 | Advanced Analysis | 3 |
| MUSC 4350 | Music for Children 3 | 6 |
| MUSC 4360 | Wind Repertoire | 3 |
| MUSC 4370 | Wind Conducting Techniques | 3 |
| MUSC 4380 | Piano Repertoire (Required for Piano Performance Majors) | 3 |
| MUSC 4390 | Piano Chamber Music Literature Seminar | 3 |
| MUSC 4430 | Pedagogy and Repertoire | 3 |
| MUSC 4440 | Vocal Pedagogy (Required for Voice Majors in Performance and General Concentrations) | 3 |
| MUSC 4480 | Minor Practical Study | 3 |
| MUSC 4490 | Piano Pedagogy (Required for Piano and Organ Majors in Performance and General Concentrations) | 3 |
| MUSC 4520 | Coaching Skills | 3 |
| MUSC 4530 | Operatic Piano | 3 |
| MUSC 4630 | 20th to 21st Century Piano Repertoire | 3 |
| MUSC 4650 | Interactive Computer Music | |
| MUSC 4660 | Computer Assisted Composition | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| MUSC 4760 | Choral Techniques 2 | 3 |

| | | |
|-----------|----------------------------------|---|
| MUSC 4770 | Band and Orchestral Techniques 1 | 3 |
| MUSC 4780 | Band and Orchestral Techniques 2 | 3 |

General Notes Regarding Electives

Most electives are not offered every year; some are offered every other year and some are offered less frequently. The listing of a subject as an elective does not guarantee that it will always be available or that it will be possible to fit it into all of the many varied timetable combinations of full- and part-time students. There may be a maximum limit set on the number of students permitted to take an elective in a particular session. Similarly, there will be a minimum limit. If registration is below the minimum, the elective will be cancelled for the session, and those registered will be required to transfer to another elective before the course change deadline date. Students are urged to discuss their elective program with members of the faculty toward the end of their second and third years to obtain advice concerning the best choice of electives for their needs.

4.4 Core Music History Electives

Core Music History Electives

In addition to the required first-year History courses (MUSC 1004 and MUSC 1014) Bachelor of Music students must choose four additional courses (12 credit hours) from the chart below- two from column A and two from column B.

| A | B |
|---|--|
| MUSC 3034 Medieval Music History | MUSC 2072 Jazz History 1 |
| MUSC 3044 Renaissance Music History | MUSC 2082 Jazz History 2 |
| MUSC 3064 Baroque Music History | MUSC 3090 Introduction to Ethnomusicology |
| MUSC 3074 Classical Music History | MUSC 3104 History of Opera 1: From Monteverdi to Mozart |
| MUSC 3084 Romantic Music History | MUSC 3114 History of Opera 2: From Mozart to the Modern Era |
| MUSC 3964 History of Western Art Music after 1900 | MUSC 3380 From Rock to Rap and Beyond: A History of Popular Music in the 20 th Century |
| | MUSC 3390: From Ragtime to Rock 'n' Roll: A History of Popular Music in the 20 th Century |
| | MUSC 3404: From New Wave to Rave: A History of Popular Music in the Late 20 th Century |
| | MUSC 4140: History of Canadian Music |
| | MUSC 4130: History of Women in Music |
| | MUSC XXXX: Topics Courses in Music History |

Note: Not all of the above listed courses will be offered every year.

4.5 Music Minors

Music Minor for Students in Faculties other than the Faculty of Music

The music minor requires 18 credit hours of MUSC courses as follows:

| Course Number | Course Title | Credit Hours |
|---------------------------------|-----------------------------|---------------------|
| MUSC 1280 | Musical Style & Structure 1 | 3 |
| MUSC 1290 | Musical Style & Structure 2 | 3 |
| Music courses from List A below | | 12 |

Note: Acceptance into all MUSC courses is subject to space availability, consent of the instructor, and prerequisite requirements.

For a minor in music, it is recommended that MUSC 1280 (Musical Style & Structure 1) and MUSC 1290 (Musical Style & Structure 2) be taken before all other courses in List A.

Note: Completion of a minor in music does not satisfy the “teachable minor” required for admission to the After Degree B.Ed. Program in middle years and senior years.

List A

| Course Number | Course Title | Credit Hours |
|----------------------|---|---------------------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1050 | The Well-Tempered Concert-Goer | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 2072 | Jazz History 1 | 3 |
| MUSC 2082 | Jazz History 2 | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2112 | Jazz Theory 1 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2122 | Jazz Theory 2 | 3 |
| MUSC 2460 | Conducting | 3 |
| MUSC 3050 | Research Methods | 3 |
| MUSC 3054 | Medieval and Renaissance Music History | 3 |
| MUSC 3064 | Baroque Music History | 3 |
| MUSC 3074 | Classical Music History | 3 |
| MUSC 3084 | Romantic Music History | 3 |
| MUSC 3090 | Introduction to Ethnomusicology | 3 |
| MUSC 3104 | History of Opera 1: From Monteverdi to Mozart | 3 |
| MUSC 3114 | History of Opera 2: From Mozart to Modern Era | 3 |
| MUSC 3130 | Music for Children 1 | 6 |
| MUSC 3140 | Music for Children 2 | 6 |
| MUSC 3230 | Acoustics of Music | 3 |

| | | |
|-----------|---|---|
| MUSC 3380 | From Rock to Rap and Beyond: A History of Popular Music in the Later 20 th Century | 3 |
| MUSC 3390 | From Ragtime to Rock ‘n’ Roll: A History of Popular Music in the 20 th Century | 3 |
| MUSC 3404 | From New Wave to Rave: A History of Popular Music in the Late 20 th Century | 3 |
| MUSC 3650 | Electroacoustic Music | 3 |
| MUSC 3690 | Percussion Techniques | 3 |
| MUSC 3730 | Early Musical Development | 3 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 3780 | Woodwind Techniques | 3 |
| MUSC 3790 | Brass Techniques | 3 |
| MUSC 3800 | String Techniques | 3 |
| MUSC 3840 | Topics in Music | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 3894 | Guitar Techniques | 3 |
| MUSC 3964 | History of Western Art Music After 1900 | 3 |
| MUSC 3974 | Music Theory After 1900 | 3 |
| MUSC 4130 | History of Women in Music | 3 |
| MUSC 4140 | History of Canadian Music | 3 |
| MUSC 4154 | Choral Repertoire | 3 |
| MUSC 4350 | Music for Children 3 | 6 |
| MUSC 4650 | Interactive Computer Music | 3 |
| MUSC 4660 | Computer Assisted Composition | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| MUSC 4760 | Choral Techniques 2 | 3 |
| MUSC 4770 | Band & Orchestral Techniques 1 | 3 |
| MUSC 4780 | Band & Orchestral Techniques 2 | 3 |

| List A: Eligible Ensemble Courses | | |
|--|-----------------|---|
| MUSC 1180 | Ensemble | 2 |
| MUSC 1182 | Jazz Ensemble 1 | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2182 | Jazz Ensemble 2 | 2 |

| | | |
|-----------|-----------------|---|
| MUSC 2190 | Ensemble | 2 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3182 | Jazz Ensemble 3 | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4182 | Jazz Ensemble 4 | 2 |
| MUSC 4190 | Ensemble | 2 |

NOTES:
 1. All Ensemble courses are 2 credit hours each.
 2. Students may take a maximum of three ensemble courses as part of a minor in music.
 3. Participation in ensembles is determined by audition.

4.6 Voluntary Minors

Effective Fall 2015:

All undergraduate Faculty of Music students may declare and complete a minor from faculties, schools, departments and interdisciplinary programs in which a minor is offered, provided the minor constitutes a minimum of 18 credit hours. Please contact a Faculty Advisor for more information and program planning.

SECTION 5: Bachelor of Music (Music Education)

5.1a. Early/Middle Years Concentration

Year One

| | | |
|-----------|------------------------------------|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | *Mathematics Requirement | 3 |
| | *Witten English Requirement | 3 |
| | Total Credit Hours | 32 |

*Can be used to fulfill the breadth component

Requirements for breadth component effective 2018-2019:

- 6 credit hours of English Literature and/or French Literature
- 6 credit hours of Social Studies (History and/or Geography)

- 12 credit hours of Mathematics & Science comprised of:
 - 6 credit hours of Mathematics or Statistics
 - 6 credit hours from Science: Biology, Chemistry, Environmental Science, Geological Science or Physics

Year Two

| | | |
|-----------|---|-----------|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Breadth Requirement | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|---------------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3106, or | Orff-Schulwerk 1 (Summer Term) | 3 |
| MUSC 3108 | Kodály Music Education (Summer Term) | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| | Teachable Minor | 6 |
| | Breadth Requirement | 6 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|-----------|---------------------------|---|
| MUSC 3360 | Topics in Music Education | 3 |
| MUSC 3730 | Early Music Development | 3 |

| | | |
|-----------|---|-----------|
| MUSC 4160 | Major Practical Study | 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Teachable Minor | 6 |
| | Breadth Requirement | 9 |
| | Total Credit Hours | 31 |

5.1b. Early/Middle Years Concentration (With "W" or "Math" Requirement as Teachable Minor)

Year One

| | | |
|-----------|------------------------------------|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | *Mathematics Requirement | 3 |
| | *Written English Requirement | 3 |
| | Total Credit Hours | 32 |

*Can be used to fulfill the breadth component

Requirements for breadth component effective 2018-2019:

- 6 credit hours of English Literature and/or French Literature
- 6 credit hours of Social Studies (History and/or Geography)
- 12 credit hours of Mathematics & Science comprised of:
 - 6 credit hours of Mathematics or Statistics
 - 6 credit hours from Science: Biology, Chemistry, Environmental Science, Geological Science or Physics

Year Two

| | | |
|-----------|---|---|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |

| | | |
|-----------|---------------------------|-----------|
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Breadth Requirement | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|----------------------------|--|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3106, or MUSC 3108 | Orff-Schulwerk 1 (Summer Term) Kodály Music Education (Summer Term) | 3 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| | Teachable Minor | 6 |
| | Breadth Requirement | 6 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|---------------------------------------|--|-------------|
| MUSC 3360 | Topics in Music Education | 3 |
| MUSC 3730 | Early Music Development | 3 |
| MUSC 4470, or MUSC 4160, and | Major Practical Study Major Practical Study Music Elective | 6 3 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Teachable Minor | 3 |
| | Breadth Requirement | 9 |
| | Total Credit Hours | 31 |

5.2a. Senior Years Instrumental Concentration

Year One

| | | |
|------------|------------------------------------|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| Music 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | Mathematics Requirement | 3 |
| | Witten English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|-----------|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Teachable Minor | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|-----------|---|---|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |

| | | |
|-----------|----------------------------------|-----------|
| MUSC 3780 | Woodwind Techniques | 3 |
| MUSC 3790 | Brass Techniques | 3 |
| MUSC 4770 | Band and Orchestral Techniques 1 | 3 |
| | Music Elective | 3 |
| | Teachable Minor | 9 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|---------------------------------------|--|-------------|
| MUSC 3690 | Percussion Techniques | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 4470, or MUSC 4160, and | Major Practical Study Major Practical Study Music Elective | 6 3 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4780 | Band and Orchestral Techniques 2 | 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Music Elective | 3 |
| | Teachable Minor | 6 |
| | Total Credit Hours | 31 |

5.2b. Senior Years Instrumental Concentration (With "W" or "Math" Requirement as Teachable Minor)

Year One

| | | |
|-----------|------------------------------------|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | Mathematics Requirement | 3 |
| | Witten English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|---|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Teachable Minor | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |

| | |
|---------------------------|-----------|
| Total Credit Hours | 35 |
|---------------------------|-----------|

Year Three

| | | |
|-----------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3780 | Woodwind Techniques | 3 |
| MUSC 3790 | Brass Techniques | 3 |
| MUSC 4770 | Band and Orchestral Techniques 1 | 3 |
| | Music Elective | 3 |
| | Teachable Minor | 9 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|---------------------------------------|--|-------------|
| MUSC 3690 | Percussion Techniques | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 4470, or MUSC 4160, and | Major Practical Study Major Practical Study Music Elective | 6 3 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4780 | Band and Orchestral Techniques 2 | 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Music Elective | 6 |
| | Teachable Minor | 3 |
| | Total Credit Hours | 31 |

5.3a. Senior Years Choral Concentration

Year One

| | | |
|-----------|------------------------------------|-----------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | Mathematics Requirement | 3 |
| | Witten English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|---|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
|-----------|---|---|

| | | |
|-----------|---------------------------|-----------|
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Teachable Minor | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|-----------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| MUSC 4760 | Choral Techniques 2 | 3 |
| | Teachable Minor | 12 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|---------------------------------------|---|-------------|
| MUSC 3360 | Topics in Music Education | 3 |
| MUSC 3730, or MUSC 3884 | Early Music Development Introduction to Jazz for Music Educators | 3 3 |
| MUSC 4470, or MUSC 4160, and | Major Practical Study Major Practical Study Music Elective | 6 3 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4154 | Choral Repertoire | 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Music Elective | 6 |
| | Teachable Minor | 3 |
| | Total Credit Hours | 31 |

5.3b. Senior Years Choral Concentration (With "W" or "Math" Requirement as Teachable Minor)

Year One

| | | |
|-----------|------------------------------------|---|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | Mathematics Requirement | 3 |

| | | |
|--|-----------------------------|-----------|
| | Written English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|-----------|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Teachable Minor | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|-----------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3770 | Vocal Techniques | 3 |
| MUSC 4750 | Choral Techniques 1 | 3 |
| MUSC 4760 | Choral Techniques 2 | 3 |
| | Music Elective | 3 |
| | Teachable Minor | 9 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|----------------|---|-----------|
| MUSC 3360 | Topics in Music Education | 3 |
| MUSC 3730, or | Early Music Development | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 4470, or | Major Practical Study | 6 |
| MUSC 4160, and | Major Practical Study | 3 |
| | Music Elective | 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4154 | Choral Repertoire | 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Music Elective | 6 |
| | Teachable Minor | 3 |
| | Total Credit Hours | 31 |

5.4a. Guitar/Strings Concentration**Year One**

| | | |
|-----------|------------------------------------|---|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |

| | | |
|--|-----------------------------|-----------|
| | Mathematics Requirement | 3 |
| | Written English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|-----------|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Teachable Minor | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|---------------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3894, or | Guitar Techniques | 3 |
| MUSC 3800 | String Techniques | 3 |
| MUSC 4750, or | Choral Techniques 1 | 3 |
| MUSC 4770 | Band and Orchestral Techniques 1 | 3 |
| | Music Elective | 6 |
| | Teachable Minor | 9 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|----------------|---|-----------|
| MUSC 3730 | Early Music Development | 3 |
| MUSC 3884 | Introduction to Jazz for Music Educators | 3 |
| MUSC 4470, or | Major Practical Study | 6 |
| MUSC 4160, and | Major Practical Study | 3 |
| | Music Elective | 3 |
| MUSC 4180 | Ensemble | 2 |
| MUSC 4190 | Ensemble | 2 |
| MUSC 4750 or | Choral Techniques 1 or 2 | 3 |
| 4760 | | |
| Or | Band and Orchestral Techniques 1 or 2 | 3 |
| MUSC 4770 or | | |
| 4780 | | |
| MUSC 4894, or | Advanced Guitar Techniques | 3 |
| | Music Elective | 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Teachable Minor | 6 |
| | Total Credit Hours | 31 |

5.4b. Guitar/Strings Concentration (With "W" or "Math" Requirement as Teachable Minor)**Year One**

| | | |
|-----------|------------------------------------|---|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
|-----------|------------------------------------|---|

| | | |
|-----------|------------------------------------|-----------|
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 | Ensemble | 2 |
| MUSC 1190 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 | Major Practical Study | 6 |
| | Mathematics Requirement | 3 |
| | Written English Requirement | 3 |
| | Total Credit Hours | 32 |

Year Two

| | | |
|-----------|---|-----------|
| MUSC 2100 | Introduction to Music Teaching and Learning | 3 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2180 | Ensemble | 2 |
| MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | Teachable Minor | 3 |
| | Music History Elective | 3 |
| | Music History Elective | 3 |
| | Total Credit Hours | 35 |

Year Three

| | | |
|----------------------------|---|-----------|
| MUSC 3102 | Composition, Technology and Improvisation for Music Educators | 3 |
| MUSC 3180 | Ensemble | 2 |
| MUSC 3190 | Ensemble | 2 |
| MUSC 3470 | Major Practical Study | 6 |
| MUSC 3894, or MUSC 3800 | Guitar Techniques String Techniques | 3 3 |
| MUSC 4750, or MUSC 4770 | Choral Techniques 1 Band and Orchestral Techniques 1 | 3 3 |
| | Music Elective | 6 |
| | Teachable Minor | 9 |
| | Total Credit Hours | 34 |

Year Four

| | | |
|--|--|------------------|
| MUSC 3730 | Early Music Development | 3 |
| MUSC 3884, or MUSC 3360 | Introduction to Jazz for Music Educators Topics in Music Education | 3 3 |
| MUSC 4470, or MUSC 4160, and MUSC 4180 | Major Practical Study Major Practical Study Music Elective Ensemble | 6 3 3 2 |

| | | |
|--|---|-----------|
| MUSC 4190 | Ensemble | 2 |
| MUSC 4750 or 4760 Or MUSC 4770 or 4780 | Choral Techniques 1 or 2 Band and Orchestral Techniques 1 or 2 | 3 3 |
| MUSC 4894, or | Advanced Guitar Techniques Music Elective | 3 3 |
| MUSC 4896 | Cultural Perspectives for Music Educators | 3 |
| | Music Elective | 3 |
| | Teachable Minor | 3 |
| | Total Credit Hours | 31 |

**SECTION 6: Program Requirements-
Integrated Bachelor of Music/Bachelor of
Education Years 1-5**

Intake suspended

6.1 First Year: as of September 2013

| | | |
|--|--|--------------------|
| Choral Music Specialization | | |
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 or MUSC 1182 | Ensemble | 2 |
| MUSC 1190 or MUSC 1192 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 OR MUSC 1404 AND MUSC 1414 | Major Practical Study Introduction to Composition 1 And Introduction to Composition 2 | 6 3 and 3 |
| ENGL 1xxx | Students who have English as their teachable minor take 1000 Level English to fulfill the U of M written English requirement Students who have History as their teachable minor take a 1000 level non-music History to fulfill the U of M written English requirement Students who have a teachable minor other than English or History may take any 1000 level, 3 credit hour course that fulfills the U of M written English requirement: consult an advisor before making a selection | 3 |
| * MUSC 3230 | Acoustics of Music (meets the U of M Mathematics Requirement) | |
| | Total Credit Hours | 32 |

* a 3 credit hour MATH 1xxx or STAT 1xxx may be taken in place of MUSC 3230, Acoustics of Music

In this program, a "C" or better is required in all courses. Non-music courses must be at the 1000 level or higher.

| Early/Middle Years Music Specialization | | |
|---|--|--------------------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 or MUSC 1182 | Ensemble | 2 |
| MUSC 1190 or MUSC 1192 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 OR MUSC 1404 AND MUSC 1414 | Major Practical Study Introduction to Composition 1 And Introduction to Composition 2 | 6 3 and 3 |
| ENGL 1xxx | Any English at the 1000 level | 3 |
| * MUSC 3230 | Acoustics of Music (meets the U of M Mathematics Requirement) | |
| Total Credit Hours | | 32 |

* a 3 credit hour MATH 1xxx or STAT 1xxx may be taken in place of MUSC 3230, Acoustics of Music

In this program, a "C" or better is required in all courses. Non-music courses must be at the 1000 level or higher.

| Instrumental Music Specialization | | |
|--------------------------------------|--|--------------------|
| MUSC 1004 | Introduction to Music in History 1 | 3 |
| MUSC 1014 | Introduction to Music in History 2 | 3 |
| MUSC 1110 | Music Theory 1 | 3 |
| MUSC 1120 | Music Theory 2 | 3 |
| MUSC 1180 or MUSC 1182 | Ensemble | 2 |
| MUSC 1190 or MUSC 1192 | Ensemble | 2 |
| MUSC 1384 | Musicianship 1 | 2 |
| MUSC 1394 | Musicianship 2 | 2 |
| MUSC 1400 OR MUSC 1404 AND MUSC 1414 | Major Practical Study Introduction to Composition 1 And Introduction to Composition 2 | 6 3 and 3 |
| ENGL 1xxx | Students who have English as their teachable minor take 1000 Level English to fulfill the U of M written English requirement Students who have History as their teachable minor take a 1000 level non-music History to fulfill the U of M written English requirement Students who have a teachable minor other than English or History may take any 1000 level, 3 credit hour course that fulfills the U of M written English requirement: consult an advisor before making a selection | 3 |

| | | |
|---------------------------|---|-----------|
| * MUSC 3230 | Acoustics of Music (meets the U of M Mathematics Requirement) | |
| Total Credit Hours | | 32 |

* a 3 credit hour MATH 1xxx or STAT 1xxx may be taken in place of MUSC 3230, Acoustics of Music

In this program, a "C" or better is required in all courses. Non-music courses must be at the 1000 level or higher.

6.2 Second Year as of September 2013

| | | |
|------------------------|---|-----------|
| | 2 Core Music History Electives MUSC XXXX | 6 |
| MUSC 2110 | Music Theory 3 | 3 |
| MUSC 2120 | Music Theory 4 | 3 |
| MUSC 2182 or MUSC 2180 | Ensemble | 2 |
| MUSC 2192 or MUSC 2190 | Ensemble | 2 |
| MUSC 2384 | Musicianship 3 | 2 |
| MUSC 2394 | Musicianship 4 | 2 |
| MUSC 2400 | Major Practical Study | 6 |
| MUSC 2460 | Conducting | 3 |
| | *Teachable Minor (see **) | 6 |
| | Total Credit Hours | 35 |

NOTE: Apply to Integrated Program during Year 2. Deadline to apply is February 1.

*For listing of teachable minors, see Senior Years teachable major/minor chart in the Education section of the calendar.

**Only those students admitted into their third year in the Faculty of Education for September 2008 and earlier are permitted a 2nd music specialization. Prior to beginning Year 5, students must have completed the Aboriginal Education Requirement and the Special Education/Diversity Requirement, which is defined as 3 credit hours Aboriginal Education and 3 credit hours Special Education/Diversity.

6.3 Third Year as of September 2013

Please refer to the Faculty of Education,

[Section 6: Program Requirements Integrated Bachelor of Music/Bachelor of Education](#)

6.4 Fourth Year after September 2013

Please refer to the Faculty of Education

[Section 6: Program Requirements Integrated Bachelor of Music/Bachelor of Education](#)

6.5 Fifth Year: 1997-2012

| Integrated Bachelor of Music/Bachelor of Education Program | | |
|--|---|---|
| EDUB 2980 | Senior Years School Experience | 6 |
| EDUA 1800 | Psychology of Learning and Instruction 1: Theory and Practice | 3 |
| EDUA 1810 | School and Society 1: The Foundations of Education | 3 |
| EDUB 1990 | Teacher and Technology | 3 |
| EDUA 2800 | Psychology of Learning and Instruction 2: Inclusive Special Education | 3 |
| EDUA 2810 | School and Society 2: The Administrative Foundations of Education | 3 |

| | | |
|--|--|-----------|
| EDUB 2500 | Themes in Senior Years Education (for Early/Middle Years specialization, students may take a 3 credit hour Education complementary course) | 3 |
| EDUB 2510 | Language and Literacy Across the Curriculum (for Early/Middle Years specialization, students may take a 3 credit hour Education complementary course) | 3 |
| EDUB 1XXX | Students with a Music teachable minor take an Education Complementary Course. (admitted to Faculty of Education September 2008 or earlier). Students admitted September 2009 and beyond take a Year 1 Curriculum & Instruction Course in their minor area. | 3 |
| Total Credit Hours | | 30 |
| Further information about the integrated program is in the chapter for the Faculty of Education. | | |

6.6 Teachable Minors

Currently under review.

SECTION 7: Post-Baccalaureate Diploma in Performance

The Marcel A. Desautels Faculty of Music offers a Post-Baccalaureate Diploma in Performance designed for musicians who wish to further their performance skills in preparation for further study or professional activity. The unique features of the PBDP program are that students can design their own program of study and tailor it to their own areas of interest. They may take courses at the Faculty as well as in other faculties and schools at the University of Manitoba.

7.1 Admission Requirements

Applicants for Admission must submit the completed application form and fee, and must possess a Bachelor of Music degree or a Conservatory Diploma taken in residence. They must also pass an entrance audition, which requires the performance of three works of contrasting styles and/or historical periods appropriate to the audition medium. This audition would normally be held in person, but video auditions may be accepted where distance is a prohibitive factor. Application materials which misrepresent the level of performance ability will be treated as fraudulent, resulting in dismissal from the program. Admission may not be possible for all qualified applicants, as it is dependent on the number of spaces available, the major practical study area, and instructor availability. Applicants who hold the Post-Baccalaureate Diploma in Performance from the University of Manitoba (or an equivalent Post-Baccalaureate one-year program from another institution) may apply for a second PBDP if studying a different applied instrument than that of their first PBDP in their Major Practical Study, and Recital courses, and if the remaining course credits taken do not duplicate those of the first PBDP.

7.2 Admission Procedures

Applications are made through the University's "Apply Yourself" system and creation of a UMConnect profile. Application deadlines are: February 15 to begin a program in September (Fall Term), or June 15 to begin a program in January (Winter Term).

All those who complete the application and provide the required documentation are granted an audition. Audition dates are scheduled as required.

It is recommended that students be admitted for a program start in Fall Term.

7.3 Program Requirements

MUSC 5400 Major Practical Study, 6 credit hours

MUSC 5560 Recital, 6 credit hours

MUSC 5180 Ensemble, 3 credit hours

Electives: chosen from available 3000 and 4000 level courses recommended by the advisor and approved by the Faculty, 15 credit hours

Total Credit Hours: 30

Note: A minimum of 18 credit hours must be taken in the Marcel A. Desautels Faculty of Music (although all 30 may be taken within the Faculty).

Reminder: While Faculty staff and faculty are available to clarify Faculty and university regulations and degree requirements, it is the student's responsibility to ensure that diploma and program requirements are met.

7.4 Academic Standing

Regulations for the Post-Baccalaureate Diploma program regarding academic standing, scholastic progress, attendance, required GPA, probation and suspension will follow those governing the Bachelor of Music and Bachelor of Jazz Studies programs as outlined in the Faculty Student Handbook.

7.5 Maximum Time Limits

Expected time to complete program: 1 year. The maximum time allowed for completing the Post-Baccalaureate Diploma program is 3 years. The Dean may grant extensions for medical or compassionate reasons. Medical: A letter from the student's physician stating the diagnosis and treatment with projected recovery. Compassionate: A letter from the student outlining the reasons for the extension showing that extenuating circumstances beyond the student's control have contributed to the need for an extension. Students will not be permitted to transfer for credit any course completed more than five years prior to the completion date of the diploma.

7.6 Courses Available

Undergraduate 3000 and 4000 level courses approved by the Dean may be used as electives in designing the program of study. Students will register for their courses after their program has been determined in consultation with their major practical study teacher who will act as academic advisor during the Post-Baccalaureate Diploma program. Students may not count toward the PBDP any courses that counted for credit in a previous degree.

7.7 Credit Transfer

The Student Advisor in the faculty will process transfer of credits into the PBDP program. A maximum of 12 credit hours of courses may be transferred into the PBDP program provided that they have not counted toward any previous degree. A minimum of 18 credit hours must be taken within the Faculty, although up to the full 30 credit hours of the diploma program may be taken within the Faculty. Transfer of credits from the PBDP program into the Master of Music processed through the Faculty of Graduate Studies. Courses may not be counted for more than one degree, and may be transferred from the PBDP to the Master of Music only if they have not been counted toward the PBDP, or more than the minimum credit hours have been taken.

7.8 Assessment

Student Assessment: Type of evaluation: Academic freedom dictates that there will be variation between classes according to the professor's preferred systems, approaches, materials, readings, and assignments. However, the University of Manitoba regulations as outlined in the General Calendar state that within the first week of lectures, instructors must inform the class of the method of evaluation to be used in each course. Minimum

Grade Requirements: In the Faculty students must attain a grade of "C" or higher for a course to count toward a degree, except in the case of Recital where a minimum of "B" is required. The PBDP program will be governed by these regulations, as outlined in the Student Handbook. Should the student transfer to another faculty in the university that faculty's regulations would apply relating to transfer of credit. Successful completion of the program will be achieved by receiving a "C" or higher in 30 credit hours. Teacher Assessment: The SEEQ course evaluations will be used in the PBDP program for academic courses, and the Faculty's specialized forms will be used for the performance-related courses.

SECTION 8: Offerings for Non-Music Students

8.1 Courses Offered in the Bachelor of Music and Bachelor of Jazz Studies Program for Students in Other Faculties

Some courses are offered outside the Bachelor of Music and Bachelor of Jazz Studies programs for students in other faculties. For information, contact the Faculty of Music Student Advisor.

Two courses are available without pre-requisites or special permission from Music, for non-music students:

MUSC 1050 - Well-Tempered Concert-Goer, 3 credit hours, may be used towards a Music Minor

MUSC 1930 - Rudiments of Music, 3 credit hours, is not applicable to a Music Minor

For information on completing a Music Minor in another faculty, please refer to Section 4.5 in the Faculty of Music calendar.

SECTION 9: Music Course Descriptions

SECTION 9: Music Course Descriptions 1000 Level

MUSC 1004 Introduction to Music in History 1 Cr. Hrs. 3

A survey of Western music from early monophony to c. 1750 through an examination of genres and aesthetic foundations. The course will include comparison to non-Western musical traditions.

MUSC 1014 Introduction to Music in History 2 Cr. Hrs. 3

A continuation of MUSC 1004, covering the eras from c. 1750 to the present. A survey of Western music from c. 1750 to the present through an examination of genres and aesthetic foundations. The course will include contemporary art music and comparison to non-Western musical traditions. Prerequisite: MUSC 1004 or consent of the Faculty of Music.

MUSC 1050 The Well-Tempered Concert-Goer Cr. Hs. 3

This course is an introduction to the art of music with the listening component based on attendance at live performances by Winnipeg's superior performing ensembles. Topics include instruments of the orchestra, musical materials, forms and structures, historical periods and biographical information on composers. This course may not be used for credit towards the Bachelor of Music or Bachelor of Jazz Studies degree.

MUSC 1110 Music Theory 1 Cr. Hs. 3

This course is designed to develop fluency in the writing and recognition of the elements of music: melodic and harmonic intervals, modes and scales, rhythm and metre, triads and inversions, and the principles of melodic and homophonic design. This course is normally restricted to students admitted to the Bachelor of Music or Bachelor of Jazz Studies program. Non-Music

students will only be admitted if there is sufficient room in the class.

Prerequisite: MUSC 1930 with a grade of "C" or better, or knowledge of music rudiments demonstrated by a rudiments test administered by the Faculty of Music before the first day of classes.

MUSC 1120 Music Theory 2 Cr. Hrs. 3

An examination of the idioms of vocal melody through the writing and analysis of duple paraphrase, duple- and syncopated-rhythm counter-point in two parts, and tonal homophony leading to the Chorale phrase and Bar form. Prerequisite: a grade of "C" or better in MUSC 1110.

MUSC 1180 Ensemble Cr. Hrs. 2

Participation in University Symphony Orchestra, University Wind Ensemble, Women's Choir, Concert Choir, University Jazz Orchestra, University Concert Band or University Singers, as is appropriate to the student's background and/or major applied area (placement to be determined by ensemble committee).

MUSC 1182 Jazz Ensemble 1 Cr. Hrs. 2

Participation in jazz ensemble(s) as assigned by the ensemble committee.

MUSC 1190 Ensemble Cr. Hrs. 2

Participation in a Faculty of Music Ensemble other than the one designated in MUSC 1180 (placement to be determined by the Ensemble Committee).

MUSC 1192 Jazz Rhythm Performance Techniques Cr. Hrs. 2

A practical approach to rhythmic proficiency in jazz, including emphasis on rhythmic and harmonic etudes, standard song form interpretation, interaction, call and response language for jazz performance.

MUSC 1280 Musical Style and Structure 1 Cr. Hrs. 3

An integrated study of the history and theory of Western music to 1750. Prerequisite: MUSC 1930 or Conservatory Canada Grade 4 Theory or RCM Advanced Rudiments or consent of the Faculty of Music. Continuation in the Music Minor requires a grade "C" or better in this course. This course may not be used as credit towards the Bachelor of Music or the bachelor of Jazz Studies degree.

MUSC 1290 Musical Style and Structure 2 Cr. Hrs. 3

An integrated study of the history and theory of Western music from 1750 to the present. Prerequisite: MUSC 1280 (or 033.128) or consent of the Faculty of Music. Continuation in the Music Minor requires a grade of "C" or better in this course. This course may not be used for credit towards the Bachelor of Music or the Bachelor of Jazz Studies degree.

MUSC 1384 Musicianship 1 Cr. Hrs. 3

A practical approach to the cultivation of critical aural perception, specifically, to develop the student's sight-singing, transcription and keyboard skills. Not to be held with MUSC 1380. For music students only.

MUSC 1394 Musicianship 2 Cr. Hrs. 3

A continuation of MUSC 1384. Prerequisite: MUSC 1384. Not to be held with MUSC 1390. For music students only.

MUSC 1400 Major Practical Study Cr. Hrs. 3

Individual instruction in one of the following: any of the standard orchestral instruments (strings, woodwinds, brasses, percussion), classical guitar, harp, harpsichord, lute, organ, piano, recorder composition or voice. An important constituent of the grading procedure for this course is performance in, and attendance at, the recitals/concerts of the Faculty of Music. For Music students only.

MUSC 1404 Introduction to Composition 1 Cr. Hrs. 3

A study of contemporary theoretical and practical approaches to rhythm, pitch, timbre, texture and form. For Music students only or with permission from the Faculty of Music.

MUSC 1414 Introduction to Composition 2 **Cr. Hrs. 3**

A continuation of MUSC 1404 Introduction to Composition 1. Prerequisite: MUSC 1404. For Music students only or with permission from the faculty of Music.

MUSC 1460 Minor Practical Study **Cr. Hrs. 3**

Individual instruction in an area other than that selected for MUSC 1400 or in composition by special permission. Written consent of the director is required prior to registration.

MUSC 1930 Rudiments of Music **Cr. Hrs. 3**

An introduction to fundamental aspects of music such as sound generation, notation, melodic and harmonic construction, with emphasis on an aural approach. This course may not be used for credit towards the Bachelor of Music or the Bachelor of Jazz Studies degree.

**SECTION 9: Music Course Descriptions-
2000 Level****MUSC 2072 Jazz History 1** **Cr. Hrs. 3**

A broad survey of the development of jazz and early popular styles of the 20th Century up until the early 1950s. This course is designed to reveal the origins of modern jazz and conventional jazz performance practices. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

MUSC 2082 Jazz History 2 **Cr. Hrs. 3**

A broad survey of jazz styles from 1950 to the present, with an emphasis on the development of contemporary performance practices. Prerequisite: MUSC 2072 or consent of the Faculty of Music.

MUSC 2100 Introduction to Music Teaching and Learning **Cr. Hrs. 3**

This course provides an introduction to philosophical, sociological, and psychological perspectives relevant to music teaching and learning, including reflective practice, development of music teacher identity, and critical analysis of pedagogical principles.

MUSC 2110 Music Theory 3 **Cr. Hrs. 3**

An examination of the idioms of instrumental melody through the writing and analysis of triple paraphrase, triple- and quadruple-rhythm counterpoint in two parts, and chromatic homophony leading to the Minuet and binary form. Prerequisite: MUSC 1120 or the consent of the Faculty of Music.

MUSC 2112 Jazz Theory 1 **Cr. Hrs. 3**

This course is designed to develop fluency in the writing and recognition of the elements of jazz: melodic and harmonic intervals, modes and scales, rhythm and meter, harmonic structure, and the principles of melodic and homophonic design. Prerequisite: MUSC 1120 or consent of the Faculty of Music.

MUSC 2120 Music Theory 4 **Cr. Hrs. 3**

An examination of the diffusion of tonality in instrumental textures through the writing and analysis of chromatic paraphrase, florid counterpoint in two parts and chromatically-extended homophony leading to the Cavatina and ternary form. Prerequisite: MUSC 2110 or consent of the Faculty of Music.

MUSC 2122 Jazz Theory 2 **Cr. Hrs. 3**

A continuation of Jazz Theory 1. New topics will include transcription analysis, transposition of lead sheets, modal and substitute harmony. Prerequisite: MUSC 2112 or consent of the Faculty of Music.

MUSC 2180 Ensemble **Cr. Hrs. 2**

Participation in University Symphony Orchestra, University Wind Ensemble, Women's Choir, Concert Choir, University Jazz Orchestra, University Concert Band or University Singers, as is appropriate to the student's background and/or major applied area (placement to be determined by ensemble committee). Prerequisite: MUSC 1180 or consent of the Faculty of Music.

MUSC 2182 Jazz Ensemble 2 **Cr. Hrs. 2**

Participation in jazz ensemble(s) as assigned by the ensemble committee. Prerequisite: MUSC 1182 or consent of the Faculty of Music.

MUSC 2190 Ensemble **Cr. Hrs. 2**

Participation in a Faculty of Music Ensemble other than the one designated in MUSC 2180 (placement to be determined by Ensemble Committee). Prerequisite: MUSC 1190 or consent of the Faculty of Music.

MUSC 2192 Jazz Improvisation 1 **Cr. Hrs. 2**

A course designed to give the student practical application of rhythmic devices, rhythmic modes, melodic and harmonic devices, scales, chords, and substitutions in the context of song forms, song fragments, repertoire. The student will be required to keep a journal of melodic devices and original jazz compositions. Prerequisite: MUSC 1120 or consent of the Faculty of Music.

MUSC 2384 Musicianship 3 **Cr. Hrs. 3**

A continuation of MUSC 1394. Prerequisite: MUSC 1394. Not to be held with MUSC 2380. For music students only.

MUSC 2394 Musicianship 4 **Cr. Hrs. 3**

A continuation of MUSC 2384. Prerequisite: MUSC 2384. Not to be held with MUSC 2390. For music students only.

MUSC 2400 Major Practical Study **Cr. Hrs. 6**

Individual instruction, normally in the area chosen in MUSC 1400. An important constituent of the grading procedure for this course is performance in and attendance at the recitals/concerts of the Faculty of Music. For Music students only. Prerequisite: MUSC 1400 or MUSC 1414.

MUSC 2460 Conducting **Cr. Hrs. 3**

The principles and development of baton technique and expressive gestures. Fundamentals of vocal and instrumental score reading, preparation and interpretation. Prerequisites: MUSC 1120 or equivalent, or consent of the Faculty of Music.

MUSC 2480 Minor Practical Study **Cr. Hrs. 3**

Individual instruction in an area other than that selected for MUSC 2400. Normally a continuation of MUSC 1460. Written consent of the director is required to register.

**SECTION 9: Music Course Descriptions-
3000 Level****MUSC 3034 Medieval Music History** **Cr. Hrs. 3**

A study of music history with emphasis on historical, stylistic, and cultural developments and issues of the Middle Ages. May not be held with the former MUSC 1070 or the former MUSC 3054. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

MUSC 3044 Renaissance Music History **Cr. Hrs. 3**

A study of music history with emphasis on historical, stylistic, and cultural developments and issues of the Renaissance. May not be held with the former MUSC 1070 or the former MUSC 3054. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

MUSC 3050 Research Methods **Cr. Hrs. 3**

Techniques of bibliography and expository writing in music. Minor research projects in selected areas; the use of primary and secondary sources.

MUSC 3064 Baroque Music History **Cr. Hrs. 3**

A history of European art music from the late 16th to the early 18th centuries (the so-called Baroque period) beginning with the invention of opera and the monodic and concerted styles in Italy and their subsequent adoption in the rest of Europe and the emergence of national schools and culminating in the works of Bach and Handel. Prerequisites: MUSC 1014 or consent of the Faculty of Music. Not to be held with MUSC 1080.

MUSC 3074 Classical Music History **Cr. Hrs. 3**

A history of European art music from the early-18th to the early-19th centuries (the so-called Classical period) beginning with the innovations of Neapolitan opera and sinfonia their subsequent adoption in the rest of Europe, culminating in the Viennese school of Haydn, Mozart and Beethoven. Prerequisites: MUSC 1014 or consent of the faculty of Music. Not to be held with MUSC 2070.

MUSC 3084 Romantic Music History **Cr. Hrs. 3**

A study of the changing styles, forms and contexts of music from the late 18th century to 1915 (the Romantic Period). Prerequisites: MUSC 1014 or consent of the Faculty of Music. Not to be held with MUSC 2080.

MUSC 3090 Introduction to Ethnomusicology **Cr. Hrs. 3**

A study of style, performance methods and social role of selected non-Western and indigenous Western music, with particular emphasis on native Canadian music, through readings in field studies and methodology. Prerequisite: MUSC 1014.

MUSC 3100 Opera Repertoire **Cr. Hrs. 3**

The nature of the opera, its beginnings and development to modern times.

MUSC 3102 Composition, Technology and Improvisation for Music Educators **Cr. Hrs. 3**

This course explores the development of musical creativity through active participation in composition, improvisation, and informal music learning. Students will engage with a variety of activities, strategies and tools appropriate for numerous music education contexts.

MUSC 3104 History of Opera 1: from Monteverdi to Mozart **Cr. Hrs. 3**

A history of opera from its origins to the late eighteenth century, tracing various styles, genres and composers through representative works in the central Italian, as well as the French, English and German schools. Prerequisites: MUSC 1014 or consent of the Faculty of Music.

MUSC 3106 Orff Schulwerk 1 **Cr. Hrs. 3**

The philosophy, techniques and materials in Orff-Schulwerk, including practical activities in the areas of Basic Orff, creative movement, recorder, aural skills, choral techniques, and a laboratory component. Applicants should have knowledge of music rudiments. May not be held with the former MUSC 3130. Prerequisite: A grade of "C" or better in MUSC 1930, or consent of the Faculty of Music.

MUSC 3108 Kodály Music Education 1 **Cr. Hrs. 3**

An introduction to contemporary Kodály-inspired pedagogy for preschool and early years contexts. In addition to exploring philosophy, practice, and materials for music teaching and learning course participants will have opportunities to develop their personal vocal, musicianship, and conducting skills. Prerequisite: a grade of "C" or better in MUSC 1930, or consent of the Faculty of Music.

MUSC 3112 Jazz Composition and Arranging 1 **Cr. Hrs. 3**

A study of the fundamentals of part writing such as instrumental range and transposition, various styles of unison writing, simple harmonic writing,

melodic, harmonic and rhythmic devices along with standard and non-standard song structures. Course will culminate in a recital of student compositions and arrangements. Prerequisite: MUSC 2122 or consent of the Faculty of Music.

MUSC 3114 History of Opera II: from Mozart to the Modern Era **Cr. Hrs. 3**

A history of opera from the late 18th century and the masterpieces of Mozart to the present, tracing the various styles, genres and composers through representative works. Prerequisite: MUSC 1014 or consent of the faculty of Music.

MUSC 3150 Orchestration **Cr. Hrs. 3**

A study of the technical capabilities and tonal characteristics of orchestral instruments, as well as practical scoring and arranging for various groups, from chamber to full orchestra and band. Prerequisite: MUSC 2120 or MUSC 2122 or consent of the Faculty of Music.

MUSC 3180 Ensemble **Cr. Hrs. 2**

Participation in University Symphony Orchestra, University Wind Ensemble, Women's Choir, Concert Choir, University Jazz Orchestra, University Concert Band or University Singers, as is appropriate to the student's background and/or major applied area (placement to be determined by ensemble committee). Prerequisite: MUSC 2180 or consent of the Faculty of Music.

MUSC 3182 Jazz Ensemble 3 **Cr. Hrs. 2**

Participation in jazz ensemble(s) as assigned by the ensemble committee. Prerequisite: MUSC 2182 or consent of the Faculty of Music.

MUSC 3190 Ensemble **Cr. Hrs. 2**

Participation in a Faculty of Music Ensemble other than the one designated as appropriate to MUSC 3180 (placement to be determined by Ensemble Committee). Prerequisite: MUSC 2190 or consent of the Faculty of Music.

MUSC 3192 Jazz Improvisation 2 **Cr. Hrs. 2**

A continuation of Jazz Improvisation 1. Rhythmic devices, rhythmic modes, melodic and harmonic devices, scales, chords and substitutions in the context of song form, song fragments, repertoire. The student will be required to keep a journal of melodic devices and original jazz compositions. Prerequisite MUSC 2192 or consent of the Faculty of Music.

MUSC 3230 Acoustics of Music **Cr. Hrs. 3**

A study of the physical basis of music; consideration of the nature of musical sound, tone production of typical musical instruments, scales, and temperaments, and architectural acoustics. Experiments and projects.

MUSC 3270 Performance Skills **Cr. Hrs. 3**

For performance majors in the Faculty of Music. Provides training in performance-related skills of the music profession, including such topics as acting, body awareness, self-promotion, career management, master classes, concert organizing, concert promotion and participation.

MUSC 3272 Jazz Performance Skills **Cr. Hrs. 3**

A course designed to equip the student with the techniques necessary to rehearse, interact and perform effectively with an ensemble in various situations.

MUSC 3360 Topics in Music Education **Cr. Hrs. 3**

This course may vary from year to year depending on the needs and interests of instructors and students.

MUSC 3380 From Rock to Rap and Beyond: A History of Popular Music in the Later 20th Century **Cr. Hrs. 3**

A survey of popular music in North America and Britain from the mid-sixties to the present, beginning with the two foremost bands of the British Invasion, the Beatles and Stones, and the development of folk rock...The

nineties focuses on the continual mainstreaming of music on the edge of rap, alternative and world beat. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

**MUSC 3390 From Ragtime to Rock 'n' Roll:
A History of Popular Music in the 20th Century** **Cr. Hrs. 3**

A survey of popular music in North America from the ragtime craze and Tin Pan Alley tradition, through the development of blues and country to the emergence of Rhythm and Blues and Rock 'n' Roll to the beginnings of the British Invasion. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

**MUSC 3404 From New Wave to Rave: A History of
Popular Music in the Late 20th Century** **Cr. Hrs. 3**

A survey of popular music from the end of twentieth century, beginning with the revolutions that occurred during the late seventies and early eighties (disco and rap, punk and hardcore) that transformed pop music, setting the course for music of the two final decades of the century. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

MUSC 3442 Jazz Pedagogy 1 **Cr. Hrs. 3**

A course designed to instruct jazz musicians on procedure and methodology for teaching jazz song form, rhythmic concepts, repertoire and history to K-8 students. Class members will teach and perform with students from the Faculty of Music Preparatory Division.

MUSC 3470 Major Practical Study **Cr. Hrs. 6**

Individual instruction, normally in the area chosen in MUSC 2400. An important component of the grading procedure for this course is performance in and attendance at the recitals/concerts of the Faculty of Music. Prerequisite: MUSC 1014, MUSC 1120, MUSC 1394, and MUSC 2400. For Music students only.

MUSC 3480 Minor Practical Study **Cr. Hrs. 3**

Individual instruction in an area other than that selected for Major Practical Study. Normally a continuation of MUSC 2480. Written consent from the Faculty of Music is required prior to registration.

MUSC 3550 Recital 1 **Cr. Hrs. 3**

The program must be approved by the applied instructor and the jury members. Prerequisite: MUSC 1014, MUSC 1120, MUSC 1394, and MUSC 2400, or consent of the Faculty of Music. For Music students only.

MUSC 3554 Jazz Recital 1 **Cr. Hrs. 3**

Preparation and performance of a public recital. The program must be approved by the applied instructor and jury members. Prerequisite: MUSC 1014, MUSC 1120, MUSC 1394, and MUSC 2400 or consent of the Faculty of Music. For Music students only.

MUSC 3620 Independent Study 1 **Cr. Hrs. 3**

Individual project designed by the student and a supervising faculty member. This study may be in an academic or applied area. Approval from the Faculty of Music is required.

MUSC 3650 Electroacoustic Music **Cr. Hrs. 3**

An introduction to electroacoustic music composition with the focus on acousmatic music. The course covers sound aesthetics, historical perspective of electro-acoustic music, repertoire and basic studio techniques such as sound editing, digital signal processing, multi-channel techniques and sound mixing.

MUSC 3690 Percussion Techniques **Cr. Hrs. 3**

Class instruction in percussion instruments. Development of basic playing techniques and examination of materials and procedures for individual and group instruction. Prerequisite: MUSC 2460 or consent of the Faculty of Music.

MUSC 3730 Early Music Development **Cr. Hrs. 3**

Procedures and materials for the development of musicality in children through listening activities, movement, creativity, singing and classroom instruments. Prerequisite: MUSC 2460 and MUSC 3770 or consent of the Faculty of Music.

MUSC 3770 Vocal Techniques **Cr. Hrs. 3**

Class instruction in vocal technique. Development of good vocal and choral sound and examination of materials and procedures for individual and group instruction. Prerequisite or Co-requisite: MUSC 2460 or the consent of Faculty of Music.

MUSC 3780 Woodwind Techniques **Cr. Hrs. 3**

Class instruction in woodwind instruments. Development of music playing techniques and examination of materials and procedures for individual and group instruction. Prerequisite: MUSC 2460 or consent of the Faculty of Music.

MUSC 3790 Brass Techniques **Cr. Hrs. 3**

Class instruction in brass instruments. Development of basic playing techniques and examination of materials and procedures for individual and group instruction. Prerequisite: MUSC 2460 or consent of the Faculty of Music.

MUSC 3800 String Techniques **Cr. Hrs. 3**

Class instruction in string instruments. Development of basic playing techniques and examination of materials and procedures for individual and group instruction. Prerequisite: MUSC 2460 or consent of the Faculty of Music.

MUSC 3820 Topics in Music **Cr. Hrs. 3**

This course may vary from year to year depending on the needs and interests of instructors and students.

MUSC 3830 Topics in Music **Cr. Hrs. 3**

This course may vary from year to year depending on the needs and interests of instructors and students.

MUSC 3884 Introduction to Jazz for Music Educators **Cr. Hrs. 3**

Procedures for organizing, rehearsing, and directing small and large group jazz ensembles. Study of repertoire and performance materials, with emphasis on personal understanding of jazz improvisation and style. Prerequisites: MUSC 2460 or consent of the Faculty of Music. Not to be held with MUSC 3880.

MUSC 3894 Guitar Techniques **Cr. Hrs. 3**

Class instruction in guitar technique. Development of basic techniques and examination of materials and procedures for individual and group instruction. Prerequisite: MUSC 2460 or consent of the Faculty of Music.

MUSC 3964 History of Western Art Music After 1900 **Cr. Hrs. 3**

A survey of the processes, contexts and conceptual constructs of Western art music from 1900 to present. Prerequisites: MUSC 1014 or consent of the Faculty of Music.

MUSC 3974 Music Theory After 1900 **Cr. Hrs. 3**

A survey of music theoretical approaches, analytical techniques and compositional trends in Western art music from 1900 to the present. Prerequisite: MUSC 2120 or MUSC 2122, or consent of the Faculty of Music.

SECTION 9: Music Course Descriptions- 4000 Level

MUSC 4010 French Diction and Repertoire **Cr. Hrs. 3**

Specialized instruction in French diction, translation and transcription using the International Phonetic Alphabet, with direct application to performance activities in French vocal repertoire. This course will be rotated on a three-year cycle with MUSC 4020 and MUSC 4030.

MUSC 4020 Italian Diction and Repertoire Cr. Hrs. 3

Specialized instruction in Italian diction, translation and transcription using the International Phonetic Alphabet, with direct application to performance activities in Italian vocal repertoire. This course will be rotated on a three-year cycle with MUSC 4010 and MUSC 4030.

MUSC 4030 German Diction and Repertoire Cr. Hrs. 3

Specialized instruction in German diction, translation and transcription using the International Phonetic Alphabet, with direct application to performance activities in German vocal repertoire. This course will be rotated on a three-year cycle with MUSC 4010 and MUSC 4020.

MUSC 4110 Special Area Paper Cr. Hrs. 3

The student will select a particular area of special interest or significance, work under supervision of a faculty member, and present results in an extended paper. Prerequisites: (MUSC 2120 or MUSC 2122), MUSC 2394 and MUSC 3470. For Music students only.

MUSC 4112 Jazz Composition and Arranging 2 Cr. Hrs. 3

A continuation of Jazz Composition and Arranging 1. The student will write for larger ensembles, including jazz orchestra. Course will culminate in a recital of student compositions and arrangements. Prerequisite: MUSC 3112 or consent of the Faculty of Music.

MUSC 4130 History of Women in Music Cr. Hrs. 3

A study of the female contribution to the art of music from the Middle Ages to the present; emphasis on the changing roles of, and attitudes towards, women as composers and performers. Prerequisite: MUSC 1014 or consent of the Faculty of Music.

MUSC 4140 History of Canadian Music Cr. Hrs. 3

A survey of music in Canada from Colonial times to the present, encompassing both folk, popular and classical traditions.

MUSC 4154 Choral Repertoire Cr. Hrs. 3

A study and examination of choral repertoire for various types of choral ensembles. Prerequisites: MUSC 2460 or consent of the Faculty of Music. Not to be held with MUSC 4150.

MUSC 4160 Major Practical Study Cr. Hrs. 3

Individual instruction, normally in the area chosen in MUSC 3470. An important constituent of the grading procedure for this course is performance in and attendance at the recitals/concerts of the Faculty of Music. For Music students only.

MUSC 4180 Ensemble Cr. Hrs. 2

Participation in University Symphony Orchestra, University Wind Ensemble, Women's Choir, Concert Choir, University Jazz Orchestra, University Concert Band or University Singers, as is appropriate to the student's background and/or major applied area (placement to be determined by ensemble committee). Prerequisite: MUSC 3180 or consent of the Faculty of Music.

MUSC 4182 Jazz Ensemble 4 Cr. Hrs. 2

Participation in jazz ensemble(s) as assigned by the ensemble committee. Prerequisite: MUSC 3182 or consent of the Faculty of Music.

MUSC 4190 Ensemble Cr. Hrs. 2

Participation in a Faculty of Music Ensemble other than the one designated in MUSC 4180 (placement to be determined by Ensemble Committee). Prerequisite: MUSC 3190 or consent of the Faculty of Music.

MUSC 4192 Jazz Improvisation 3 Cr. Hrs. 2

A continuation of Jazz Improvisation 1 and 2. Rhythmic devices, rhythmic modes, melodic and harmonic devices, scales, intervallic devices, chords, and substitutions in the context of song forms, song fragments, repertoire. The student will be required to keep a journal of melodic devices and original jazz compositions. Prerequisite: MUSC 3192 or consent of the Faculty of Music.

MUSC 4330 Advanced Analysis Cr. Hrs. 3

A survey of analytical approaches to tonal and post-tonal music. Aspects of musical structure, perception and performance will be explored through readings and the analysis of major works from the core repertoire. Prerequisite: MUSC 2120 or MUSC 2122 or consent of the Faculty of Music.

MUSC 4360 Wind Repertoire Cr. Hrs. 3

A selected survey of wind literature from 1500 to the present. Prerequisite: MUSC 4770 and MUSC 4780, or consent of the Faculty of Music.

MUSC 4370 Wind Conducting Techniques Cr. Hrs. 3

A study of the psychological, philosophical and practical aspects of conducting wind ensembles at all levels. (entry to professional). Prerequisite: MUSC 4770 and MUSC 4780, or consent of the Faculty of Music.

MUSC 4380 Piano Repertoire Cr. Hrs. 3

A comprehensive survey of major composers and their compositions for solo Piano. (Required course for piano Performance majors)

MUSC 4390 Piano Chamber Music Literature Seminar Cr. Hrs. 3

A selected survey of piano chamber music.

MUSC 4430 Pedagogy and Repertoire Cr. Hrs. 3

A consideration of approaches to the teaching of style and technique, through an examination of the repertoire for the student's major practical study.

MUSC 4440 Vocal Pedagogy Cr. Hrs. 3

An exploration of the foundations of the singer's art and craft, including the physical nature of the singing voice, stages of development, and various national, historical and individual pedagogical approaches to the teaching of singing. Required course for voice majors in Performance and General concentrations.

MUSC 4442 Jazz Pedagogy Cr. Hrs. 3

A course designed to instruct jazz musicians on procedure and methodology for teaching jazz song form, rhythmic concepts, repertoire and history to K-12 students. May not be held with MUSC 3442.

MUSC 4470 Major Practical Study Cr. Hrs. 3

Individual instruction, normally in the area chosen in MUSC 3470. An important component of the grading procedure for this course is performance in and attendance at the recitals/concerts of the Faculty of Music. Prerequisites: (MUSC 2120 or MUSC 2122), MUSC 2394 and MUSC 3470 with a grade of "C" or better in each of the courses. For Music students only.

MUSC 4480 Minor Practical Study Cr. Hrs. 3

Individual instruction in an area other than that selected for Major Practical Study. Normally a continuation of MUSC 3480. Written consent of the director is required prior to registration.

MUSC 4490 Piano Pedagogy Cr. Hrs. 3

An introduction to teaching of styles and techniques through an examination of piano repertoire. (Required course for piano and organ majors in Performance and General Concentrations.)

MUSC 4520 Coaching Skills **Cr. Hrs. 3**

Introduction to and training in philosophies and techniques of vocal coaching including both song and operatic repertoire.

MUSC 4530 Operatic Piano **Cr. Hrs. 3**

Development of skills required of an operatic pianist, including standard arias, operatic scores, working with conductors and developing an orchestral sound. May include participation in community opera events. (by audition only)

MUSC 4560 Recital 2 **Cr. Hrs. 6**

Preparation and performance of a public graduation recital. The program, which must be approved by the applied instructor and jury members. Prerequisite: MUSC 2120, MUSC 2394 and MUSC 3550 or consent of the Faculty of Music. For Music Students only.

MUSC 4562 Jazz Recital 2 **Cr. Hrs. 6**

Preparation and performance of a public graduation recital. The program must be approved by the applied instructor and the jury members. Prerequisite: MUSC 2082, MUSC 2122, MUSC 2394 and MUSC 3554 or consent of the Faculty of Music. For Music Students only.

MUSC 4630 20th to 21st Century Piano Repertoire **Cr. Hrs. 3**

Piano repertoire from 1900 to the present.

MUSC 4650 Interactive Computer Music **Cr. Hrs. 3**

An introduction to interactive computer music composition. The course covers different techniques for interaction between performers and a computer. Experiments will be done using major software for live MIDI and audio processing. The course also covers sound synthesis. Possibilities are given to write with either projects involving performers or multi-disciplinary projects (e.g., installation including visual elements). Prerequisite: MUSC 3650 or consent of the Faculty of Music.

MUSC 4660 Computer Assisted Composition **Cr. Hrs. 3**

An introduction to Computer Assisted Composition. The course covers a variety of mathematical models for structuring musical parameters, such as probability, iterative functions, spectral pitch organization, rule-based systems and morphological models. Different environments using the Lisp language are used as a base for experiments. Prerequisite: MUSC 1414 or consent of the Faculty of Music.

MUSC 4750 Choral Techniques 1 **Cr. Hrs. 3**

Procedures for organizing, rehearsing and conducting various types of choral ensembles. Examination of performance materials. Prerequisite: MUSC 2460 and MUSC 3770 or consent of the Faculty of Music.

MUSC 4760 Choral Techniques 2 **Cr. Hrs. 3**

Continued study in rehearsing and conducting standard choral ensembles. Study of repertoire and related literature. Prerequisite: MUSC 4750.

MUSC 4770 Band and Orchestral Techniques 1 **Cr. Hrs. 3**

The historical development and present instrumentation of standard instrumental ensembles. Procedures for organizing, rehearsing and conducting bands and orchestras. Examination of performance and instructional materials. Prerequisite: MUSC 2460, MUSC 3790, MUSC 3780 and MUSC 3690 or MUSC 3800 or MUSC 3894 or consent of the faculty of Music.

MUSC 4780 Band and Orchestral Techniques 2 **Cr. Hrs. 3**

Continued study in rehearsing and conducting standard instrumental ensembles. Study of repertoire and related literature. Prerequisite: MUSC 4770.

MUSC 4894 Advanced Guitar Techniques **Cr. Hrs. 3**

This course is an extension of MUSC 3894 with a particular focus on developing curricular resources for creative composition, diverse musical styles, and informal music learning. This course provides a brief introduction to electric guitar and ukulele. Prerequisite: MUSC 3894 or consent of the Faculty of Music.

MUSC 4896 Cultural Perspectives for Music Educators **Cr. Hrs. 3**

A study of non-Western musical practices and approaches to learning music, and implications for music teaching. This course is intended to prepare students for the diversity of the 21st century music classroom and studio.

SECTION 9: Post-Baccalaureate Course Descriptions-5000 Level

MUSC 5180 Ensemble **Cr. Hrs. 3**

Participation in a Faculty of Music ensemble as is appropriate to the student's background and/or major applied area. (To be decided by the Major Practical Study Teacher in consultation with the ensemble committee).

MUSC 5400 Major Practical Study **Cr. Hrs. 6**

Individual instruction in the instrument area of study at the Post-Baccalaureate level.

MUSC 5560 Recital **Cr. Hrs. 6**

Preparation and performance of a public, full-length recital at the Post-Baccalaureate level. The program, must be approved by the applied instructor and the jury committee judging the recital. It should include an appropriate balance of solo and chamber repertoire.

Faculty of Science

Dean: Dr. Stefi Baum
 Associate Dean(s): Teresa deKievit, Pourang Irani (Acting), Krystyna Koczanski, Peter Loewen, Brian Mark
 Campus Address/General Office: 239 Machray Hall
 Telephone: (204) 474 8256
 Fax: (204) 474 7618
 Email [Address: Ask a Science Advisor](#)
 Website: umanitoba.ca/science
 Academic Staff: For complete listings of the Faculty of Science Academic Staff, please refer to departmental websites.

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SECTION 1: Degrees and Programs offered by the Faculty of Science

1.1 Degree Offerings

| Degree Offering Name | Minimum Years to Complete ¹ | Minimum Required Credit Hours |
|--|--|-------------------------------|
| Bachelor of Science General Degree - B.Sc. General | 3 | 90 |
| Bachelor of Science Major Degree – B.Sc. Major | 4 | 120 |
| B.Sc. Major Degree – Co-operative Option | 5 ² | 120 |
| Bachelor of Science Double Major Degree | 4 | 120 ¹ |
| Bachelor of Science Honours Degree – B.Sc. Honours | 4 | 120 - 129 |
| B.Sc. Honours Degree – Co-operative Option | 5 ² | 120 |
| Bachelor of Computer Science Honours – B.C.Sc. Honours | 4 | 120 |
| B.C.Sc. Honours Degree – Co-operative Option | 5 ² | 120 |
| Bachelor of Science Double Honours Degree | 4 | 120 ¹ |

NOTES:

1. The actual number of credit hours required to complete the Double Major and Double Honours programs may exceed 120 credit hours and will depend on each specific program, designed in consultation with the departments involved.

2. This number includes a minimum of 12 months paid employment.

1.2 Program Offerings

| Program | Theme / Focus / Concentration / Option | Honours | Major | Co-op | Minor |
|-----------------------|---|---------|-------|-------|-------|
| Actuarial Mathematics | | • | | | |
| Biochemistry | | • | • | • | |
| Biological Sciences | | • | • | • | • |
| Theme Areas | Cell, Molecular and Developmental Biology | • | • | • | |
| | Ecology and Environmental Biology | • | • | • | |
| | Environmental and Integrative Physiology | • | • | • | |

| | | | | | |
|---|-----------------------------------|---|---|---|---|
| | Evolution and Biodiversity | • | • | • | |
| | Integrative Biology | • | • | • | |
| Biotechnology* | | • | • | • | |
| *As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office. | | | | | |
| Program Streams | Analytical Biotechnology | • | • | • | |
| | Molecular Biotechnology | • | • | • | |
| Chemistry | | • | • | • | • |
| Focus Areas | Bioanalytical Chemistry | • | • | • | |
| | Biopharmaceutical Chemistry | • | • | • | |
| | Biophysical Chemistry | • | • | • | |
| | Environmental Chemistry | • | • | • | |
| | Inorganic Chemistry | • | • | • | |
| | Materials Science | • | • | • | |
| | Organic Chemistry | • | • | • | |
| | Physical Chemistry | • | • | • | |
| | Quantum / Computational Chemistry | • | • | • | |
| Chemistry-Physics Joint Program | | • | | | |
| Computer Science | | • | • | • | • |
| Areas of Specialization | Theoretical Computer Science | • | • | • | |
| | Networks and Security | • | • | • | |

| | | | | | |
|--|----------------------------|---|---|---|---|
| | Artificial Intelligence | • | • | • | |
| | Human-Computer Interaction | • | • | • | |
| | Databases | • | • | • | |
| | Software Engineering | • | • | • | |
| | Computer Systems | • | • | • | |
| | Web-Based Systems | • | • | • | |
| Computer Science – Mathematics Joint Program | | • | | • | |
| Computer Science – Physics and Astronomy Joint Program | | • | | • | |
| Computer Science – Statistics Joint Program | | • | | • | |
| Genetics | | • | • | • | |
| Mathematics | | • | • | • | • |
| Applied Mathematics | | | • | • | |
| Options | Computer Science Option | | • | • | |
| | Economics Option | | • | • | |
| | Statistics Option | | • | • | |
| Mathematics – Physics and Astronomy Joint Program | | • | | | |
| Mathematics – Economics Joint Program | | • | | | |
| Microbiology | | • | • | • | • |
| Physics and Astronomy | | • | • | • | • |
| Options | Astronomy and Astrophysics | • | | • | |
| | Physics | • | | • | |
| | Medical and Biological | • | | • | |

| | | | | |
|--|---|---|---|---|
| Psychology | • | • | | • |
| Statistics | • | • | • | • |
| Statistics – Actuarial Mathematics Joint Program | • | | | |
| Statistics – Mathematics Joint Program | • | | | |
| Statistics – Economics Joint Program | • | | | |

SECTION 2: Admission to the Faculty of Science

2.1 Direct Entry Admissions Requirements

To enter the Faculty of Science directly from high school, a student must have:

1. Manitoba high school graduation with five full credits at the Grade 12 level in courses designate S, G, or U.
2. A minimum 85% average over the following, with no less than 60% in each course:
 - a. English 40S
 - b. Pre-Calculus Mathematics 40S (recommended) or Applied Mathematics 40S; AND,
 - c. One of Biology 40S, Chemistry 40S, Computer Science 40S, or Physics 40S

Students admitted Direct Entry, enter a 4-Year undeclared Major. See Section 3.3 for details.

2.2 Entrance to Science from University 1: Transiting

To transit from University 1 to the Faculty of Science a student must have completed a minimum of 24 credit hours of courses. If a student has satisfied the minimum requirements for entry to Science, they simply perform the transit function on AURORA Student to enter the Faculty of Science. There are no fees for transiting and there is no application form required. Students who require assistance with transiting to Science from University 1, should contact the Faculty of Science office.

When a student transits from University 1 to the Faculty of Science, they may choose to transit to a 4-year Major program for which they qualify, or they may choose to transit to the General Degree. If a student wishes to enter an Honours program in the Faculty of Science they should contact the Faculty of Science office for assistance. Students intending to enter a four year Major or Honours program should refer to the program charts in Section 4, Departments in, and Programs and Courses Offered by, the Faculty of Science, for courses required for entry into each program. Completion of these courses in University 1 will prepare a student to complete a four year Major or Honours program in four calendar years.

For further information please contact a Faculty of Science Academic Advisor and/or refer to the Faculty of Science applicant information

brochure and the University Admissions website:
www.umanitoba.ca/admissions.

Note: Students who have exceeded 36 credit hours of "F" grades will not normally be admissible until a suspension has been served. Students may contact the Faculty of Science for further information or advice.

2.3 Transfer Students

Students who wish to transfer to the Faculty of Science must have completed a minimum of 24 credit hours of post-secondary courses and have achieved a minimum cumulative grade point average of at least 2.00 to be eligible for consideration. Students who do not meet this minimum may appeal to be considered for admission on the recommendation of the Dean. Please see a Science Academic Advisor for information. External transfer students with 24 credit hours or more of transfer credit are assessed upon admission to the Faculty of Science.

Students on academic suspension as a result of work completed at another post-secondary institution will not normally be considered for admission to the University of Manitoba until the suspension has been served.

Transfer of Credit

External: Please refer to the Admissions website at umanitoba.ca/admissions or the Admissions section at the front of this *Calendar*. Courses completed at an external institution ten years prior to registration in the Faculty of Science are not considered for transfer credit. Students should contact a Science Academic Advisor regarding departmental transfer credit policies. **All courses acceptable to the Faculty of Science must be transferred.**

2.4 Second Degree Students

Students possessing a first degree from a recognized university program and who have a minimum Cumulative Grade Point Average of 2.00 (or a 2.30 adjusted grade point average – see applicant information bulletin for details on AGPA) on all previous university work are eligible for admission as Second Degree students.

Second degree requirements may be shortened by up to 60 credit hours, and once admitted to a Second Degree Program, students will be expected to conform to all continuation, residency and graduation requirements as described in Section 3.

Specific information on requirements for a Bachelor of Science degree following the completion of a degree in another faculty or school, or at another university, is available in the general office.

2.5 Special Students

After Degree Special Students

Students who have successfully completed a first degree from a recognized university program with a Cumulative Grade Point Average of 2.00 or better are eligible for admission as Special Students.

2.6 Auditing Students

Students who wish to audit courses must have written permission from the instructor of the desired course before they can register. Auditing students must register in person in the Faculty of Science general office. The Faculty of Arts will prohibit auditors from registering in their courses until after the initial access period for registration.

2.7 Returning to Science after an Extended Leave

Students who have been away from Science for more than a year are blocked from using AURORA STUDENT. They must consult with a Science Academic Advisor. If the student has not attended another post-secondary institution, they are eligible to return. The advisor will determine academic progress, registration date and time, and discuss degree plans. Students planning a return to studies are strongly urged to contact an Advisor well in advance of the start of registration. Students who have attended elsewhere since their last registration in Science must normally re-apply for admission and be academically competitive for admission on all of their previous academic work. June 1 is the application deadline for Fall term.

Students who have graduated must re-apply (June 1 for Fall Term – Other deadlines may be found at umanitoba.ca/admissions) and be academically competitive for admission

SECTION 3: Academic Regulations

3.1 Regulations Applicable to all Programs

The provisions of the chapters: "General Academic Regulations" and "University Policies and Procedures" apply to all students. In addition, the Faculty of Science has regulations and requirements published below that apply specifically to its students.

Repeating a Course

Permission to repeat a course or a direct equivalent is no longer required. To take a course that is "not to be held" with a previously completed course still requires a registration override. Please contact the Faculty of Science General Office prior to registration.

Science students are subject to the University of Manitoba regulations (see General Academic Regulations, Repeating a Course) and the Faculty of Science degree regulations regarding eligibility to repeat a course. See below for information on Limited Access.

Repeating a course will **not** result in the removal of the first attempt and grade in that course from the student's record. The course will appear on the transcript as many times as it has been repeated. The grade in all attempts of a course will be calculated as part of the student's GPA.

There is a limit on the number of 'F' grades permitted in any degree. All courses with "F" grades that are repeated count towards the limit of "F" grades permitted in a Science degree. See Academic Assessment below and B.Sc. Major and B.Sc. Honours Academic Regulations.

Students who wish to repeat a course for which they have obtained a grade of "C" or better are encouraged to discuss their choice to do so with a Science Academic Advisor prior to registration.

NOTE: In most cases, professional Faculties and Schools have specific rules governing the way repeated courses are treated in their admission process. Check the applicant information bulletin of the appropriate Faculty or School, or with the Admissions Office (424 University Centre), or with a Science Academic Advisor for information regarding how different professional programs treat repeated courses in determining admission.

Voluntary Withdrawals

The responsibility for initiating withdrawals rests solely with the student. When eligible to do so, Voluntary Withdrawals must be done through Aurora Student. No withdrawals will be permitted after the deadlines posted in the Academic Schedule. See below information on Limited Access.

There is no limit on the number of Voluntary Withdrawal hours a student can accumulate.

In exceptional circumstances, Authorized Withdrawals may be permitted on presentation of appropriate documentation. See the chapter, "General Academic Regulations" section "Withdrawal from Courses and Programs" or consult a Science Academic Advisor for information.

Limited Access

Effective 2018 Winter Term - Limited Access Policy in Effect

Limited Access is a registration rule that allows students who have never before completed, or voluntarily withdrawn, from a course (or its equivalent) the opportunity to register for the course before students who are repeating or have previously withdrawn from the course.

If a student has previously taken a course and received a final grade, or voluntarily withdrawn from the course (VW)*, any future attempt to take that course or its equivalent is considered a repeated course.

*A previous VW is only considered a repeat if the student voluntarily withdrew in Winter 2017 or later.

Effective Winter 2018, Limited Access will prevent a student from registering or placing themselves on the waitlist for a course (or equivalent) being repeated until the "Limited Access Term Expiry Date" has passed.

Limited Access applies for three consecutive terms following the term that the course in question was last completed or voluntarily withdrawn (VW).

During these three terms of Limited Access, a student may register to repeat a course, without permission, only when the Limited Access Term Expiry Date has passed.

Once the three terms of Limited Access has expired, any student wishing to repeat a course must request permission to do so from the Faculty of Science General Office prior to registration.

Attendance at other Institutions

Students who attend other post-secondary institutions without a Letter of Permission must reapply for admission to the Faculty of Science before the application deadline and be academically competitive for admission. Similarly, students registered in the Faculty of Science may not be registered at another academic institution at the same time unless they are registered elsewhere on a Letter of Permission. The penalty for unauthorized or undisclosed attendance may be disciplinary withdrawal or academic suspension.

For more information on Letters of Permission, refer to the Registration Information section of this calendar or to the Registrar's Office website at: umanitoba.ca/registrar.

Academic Dishonesty

Academic dishonesty is intentional cheating, fabrication, impersonation, or plagiarism. It is also knowingly or inadvertently helping or attempting to help others to be dishonest. Academic dishonesty lowers scholastic quality and defrauds others who will eventually depend on their own knowledge and integrity.

Plagiarism or any other form of cheating on examinations, term tests, or assignments is subject to academic penalty as serious as suspension or expulsion from the faculty or university.

Students who are unsure of what constitutes academic dishonesty should refer to the regulations in General Academic Regulations and Policy,

Plagiarism and Cheating, and consult with a Science Academic Advisor or a faculty member. Information about academic penalties for academic dishonesty is available on the Faculty of Science website.

Academic Assessment

Effective September 2013, each student in the Faculty of Science will be placed on academic suspension for one year, regardless if there has been evidence of improved performance, if they have more than 36 credit hours of "F" grades.

Following a one year suspension, the student may return upon application to the Faculty of Science by selecting one of the following irreversible options:

(a) to continue with no possibility of further "F" grades. Any further "F" grades will result in academic suspension for two years. (Following the two year suspension, the student may apply to the Faculty of Science to return to start afresh.)

Or

(b) start afresh, with their previous work not counting towards satisfying degree requirements. Students may appeal to transfer in up to 30 credit hours of previously completed coursework with a grade of "C" or better.

(In either case this does not mean that the previous coursework will be removed from the student history or transcript.)

Required to Withdraw from Major or Honours

If a student's last assessment was "Required to Withdraw from the Honours or the Major program," they **must** consult a Science Academic Advisor prior to registration. An advisor will review new degree plans, determine eligibility for a desired program, and update any affected university records.

Students on "Hold"

If a student is on "Hold", they are prevented from any registration transaction (including Voluntary Withdrawals) until they have cleared this status. The student must contact the Faculty of Science within the normal deadline to withdraw from a course while on "Hold".

Term work and Debarment

A student is responsible for the completion of laboratory work, assignments, tests and other class work as prescribed by departments. A student who does not meet term work requirements to the satisfaction of a department may receive a warning to this effect from the department or the general office. If this warning is ignored, a student may be debarred from the course. Any student debarred from a course receives an automatic grade of "F" in that course.

Deferred Examinations

Students unable to write a final examination because of illness, disability, or for compassionate reasons, must file an application in the Faculty of Science general office for a deferred examination. The application must be filed within 48 hours of the examination. Appropriate documentation must be provided that verifies that the incapacity existed at the time the examination was to be written.

A deferred examination is offered in a manner prescribed by the head of the department concerned. This would normally be written within 30 working days of the last examination in that series. Any other consideration would be determined by the department head.

Students requesting deferred examinations on the grounds that the examinations conflict with vacation or holiday plans shall not be granted deferrals.

A deferred examination is not granted to a student who has written the final examination.

Deferred examinations that need to be re-deferred, and/or requests where a student is seeking a deferral in a third examination series (i.e. Fall 2008, Winter 2009, Winter 2010 – any course) must be approved by the Faculty of Science Committee on Student Standing. Students must appeal, in writing, to the Committee on Student Standing and provide precise documentation that outlines why a deferral request should be granted in their case.

Appeals Involving Academic Regulations

The Committee on Student Standing in Science considers appeals from students who request special consideration in respect of rules and regulations governing their programs of study and qualification for graduation.

Appeals should be addressed to: The Secretary, Committee on Student Standing, General Office, Faculty of Science, 239 Machray Hall.

Appeal for Authorized Withdrawal

Students who have valid and documented reasons for withdrawal, such as medical illness or compassionate circumstances, may be authorized to withdraw without penalty. Requests for authorized withdrawals must be submitted in writing to a Faculty of Science Academic Advisor. The Office of Student Advocacy located at 519 University Centre (204-474-7423, student_advocacy@umanitoba.ca) is available to provide information and assistance.

Statute of Limitations: Students who intend to appeal matters concerning regulations or decisions of the Faculty which may affect their registration must arrange to submit a written appeal, including pertinent documentation to the Secretary of the Faculty of Science CSS, normally within three months following the term in which the course was taken or from the date of the academic decision. Appeals will not be considered beyond three years after the end of the course, or from the date of the academic decision.

Appeal for other Academic Concessions

Students who believe they have grounds for academic concessions based on their personal circumstances should consult with a Science Academic Advisor. The Office of Student Advocacy located at 519 University Centre (204-474-7423, student_advocacy@umanitoba.ca) is available to provide information and assistance.

Laboratory Registration

If a course requires registration in both a lecture and a separate appropriate laboratory section, AURORA STUDENT will not permit you to register in that course unless you register for both.

Laboratory Exemptions

Students who think they are eligible for a laboratory exemption must check with the department offering the course to obtain formal consent of this. Once received, deliver the written permission to their faculty or school office, as an override may be required on their academic record. They must register for the laboratory exempt section.

It is the student's responsibility to ensure that they are eligible for a laboratory exemption. If they register for one of these courses and it is subsequently determined that they are not entitled to exemption, they will be required to register for a laboratory section. If no space remains available in the laboratory, they will be required to withdraw from the course.

Laboratory release

Certain Chemistry and Microbiology courses require that students check out of the laboratory before they withdraw or change lab sections. It is the students responsibility to check with the departmental office prior to making any changes to their laboratory registration. Failure to check out of the laboratory may result in the students academic records being placed on HOLD.

3.2 B.Sc. (General) Degree Academic Regulations

B.Sc. (General) – Three Year Degree

The three year General program is intended to provide diversified training in Science. The design of the program is such that a student is exposed to several areas of science at an introductory level together with a requirement for more advanced study in at least two Science areas. These requirements will ensure that a student's program of study will have elements of breadth and depth.

This program is not intended for students who desire to practice in some field of specialization in the Sciences. Students with that intent are recommended to pursue the Honours or the four year Major program. However, the three year General program is flexible enough in most departments to allow a student to choose courses that would facilitate transferring to the four year Major program should that become desirable.

B.Sc. General Academic Regulations¹

A student must complete 90 credit hours with passing grades ("D" or better) in each course. Please note higher grades are usually required for prerequisite purposes. See course descriptions for details. A student must obtain a minimum grade point average of 2.00 on the 90 credit hours which constitute the degree to qualify for the degree of Bachelor of Science (General).

Students may not exceed 36 credit hours of failures.

Introductory Level Science courses (24 credit hours): Students must select 6 credit hours from each of 3 areas listed below (18 credit hours) in Group A. Additionally, students must select 6 credit hours from any courses listed in Group A and/or Group B.

NOTE: No more than 6 credit hours may be selected from any single subject area for use toward the 24 credit hours of introductory course requirements.

Group A:

Astronomy: ASTR 1810 and ASTR 1830

Biology: BIOL 1020 and BIOL 1030

Chemistry: CHEM 1300 and CHEM 1310

Computer Science: COMP 1010 (or COMP 1012²) and COMP 1020

Mathematics: six credit hours chosen from:

- MATH 1200¹
- 3 credit hours from MATH 1210¹ MATH 1220¹ or MATH 1300¹ (or equivalent),
- 3 credit hours from MATH 1230 or MATH 1500 (or equivalent),
- 3 credit hours from MATH 1232 or MATH 1700 (or equivalent),
- MATH 1240

Microbiology: MBIO 1010 and MBIO 2020

Physics: PHYS 1020 or PHYS 1050; and PHYS 1030 or PHYS 1070

Statistics: STAT 1000⁴ (or STAT 2220³) and STAT 2000⁴ or STAT 1150⁴ and STAT 2150⁴

Group B:

BIOL 1410, FORS 2000.

Notes:

1. MATH 1210 is intended for Engineering students and may not be held for credit with MATH 1200, MATH 1220 or MATH 1300.

2. COMP 1012 is intended for Engineering students and may not be held for credit with COMP 1010.

3. STAT 2220 is intended for Engineering students and may not be held for credit with STAT 1000 or STAT 1150.

4. It is recommended that students intending to complete their advanced level Science subjects in Statistics or Mathematics choose STAT 1150 and STAT 2150, rather than STAT 1000 and STAT 2000. STAT 1000 and STAT 2000 may not be held for credit with STAT 1150.

Advanced Level Science Courses (36 credit hours): Effective for students entering Science September 2008 or later², to satisfy the advanced level requirements of the 3-year General Degree program, eighteen (18) credit hours at the 2000, 3000, and (or) 4000 level must be chosen from each of **two** of the following Science departments: Biological Sciences, Chemistry, Computer Science, Mathematics, Microbiology, Physics and Astronomy, and (or) Statistics.

Of the 36 credit hours (total) from the advanced areas of study, at least 6 credit hours must be chosen from 3000 or 4000 level courses. Students should note prerequisite requirements for upper level courses when planning their program. Appropriate courses and combinations of courses are detailed in each departmental section. Substitute courses from a department may be taken by obtaining written authorization from the chosen department.

Other Faculty Courses (12 credit hours): a minimum of 12 credit hours must be taken from outside the Faculty of Science, of which at least six credit hours must be from the Faculty of Arts. A maximum of 30 credit hours may be taken from outside the Faculty of Science for use in the General Degree program.

Elective Courses (18 credit hours): 18 credit hours of the B.Sc. General Degree are open electives.

Biological Sciences Option: Students may elect to choose all 36 credit hours of advanced level course requirements from the Department of Biological Sciences (formerly Botany and Zoology) provided they follow the specified course selections prescribed in the Biological Sciences Focus Chart - B.Sc.General.

Chemistry Option: Students may elect to choose a specific set of introductory courses, plus all 36 credit hours of the advanced level course requirements from the Department of Chemistry provided they follow the specified course selections (introductory and advanced levels) prescribed in Chemistry Focus Chart - B.Sc. General.

NOTES:

1. Students having difficulty with the interpretation of these regulations or the way in which they are applied, are urged to contact a Science Academic

Advisor in the general office. Students are responsible for their own degree progress and completion.

2. Students admitted to the Faculty of Science prior to September 2008 should consult with a Science Academic Advisor about degree requirements.

B.Sc. General Degree Minimum Performance Requirements

Effective September 2013, each student in the Faculty of Science will be placed on academic suspension for one year, regardless if there has been evidence of improved performance, if they have more than 36 credit hours of "F" grades.

Following a one year suspension, the student may return upon application to the Faculty of Science by selecting one of the following **irreversible** options:

(a) to continue with no possibility of further "F" grades. Any further "F" grades will result in academic suspension for two years. (Following the two year suspension, the student may apply to the Faculty of Science to return to start afresh.)

Or

(b) start afresh, with their previous work not counting towards satisfying degree requirements. Students may appeal to transfer in up to 30 credit hours of coursework previously completed with a grade of "C" or better.

(In either case this does not mean that the previous coursework will be removed from the student history or transcript.)

B.Sc. General Degree Residence Requirements

There are two ways in which students may fulfill the minimum requirement of credit hours that must be taken at the University of Manitoba: by taking at least 48 credit hours at the University of Manitoba; or by taking at least the final 30 credit hours at the University of Manitoba. The courses used to satisfy the residence requirement must be acceptable for credit in the Faculty of Science. Residency requirements apply to both first and second degree students.

3.3 B.Sc. Major (Degree) Academic Regulations

Faculty of Science Direct Entry students are admitted to a 4-Year undeclared Major program. While in the undeclared Major, students will take courses to allow them to declare a specific Major or enter an Honours program. To declare a specific Major or enter an Honours program students will need to satisfy the entry requirements as outlined in Section 4, Programs and Courses Offered by the Faculty of Science.

Following the completion of 24-30 credit hours students will declare their Major program, or enter the Honours program, or they may choose to enter the 3-Year General degree. Students who do not qualify for a specific Major or Honours program will be required to move into the 3-Year General degree. Students who wish to be in a Major or Honours program but did not qualify can complete the outstanding requirements while in the General degree program and enter the program upon completion of the requirements.

B.Sc. (Major) – Four-Year Degree

The four-year Major programs provide in-depth study in a specific discipline and enable graduates to function competently in a career in their chosen subject area.

While this program is not intended for students pursuing graduate studies, most programs allow students to do so with a minimum of difficulty.

The four-year Major program may be pursued on a part-time basis, although it must be recognized that under those conditions students would require more than four years to complete degree requirements.

B.Sc. (Major): Academic Regulations

To qualify for the degree Bachelor of Science (Major), a student must complete 120 credit hours or more, with minimum grades of "C" on Major Program Specific courses (as specified by the department), "D" or better on the remaining courses, and a minimum Degree Grade Point Average of 2.00.

Program Specific courses are those identified by the department as being core to the given degree. See the Calendar entry for these departments for clarification.

At least six credit hours **must** be taken from outside the Faculty of Science. Students admitted to a Major program must complete six credit hours of courses from the Faculty of Arts. Students in the Major degree programs may take a maximum of 36 credit hours from outside the Faculty of Science.

B.Sc. (Major): Entrance Requirements

To enter a specific four-year Major program, a student must normally have achieved a minimum grade of "C+" in at least one introductory course designated by the department(s). One of the entry routes to the Physics & Astronomy Major program, has a more rigorous entry requirement than listed above; please see the calendar entry for more details. In addition, to enter a four-year Major program a student shall normally have completed at least 30 credit hours, although a student may enter on the recommendation of the department with only 24 credit hours completed.

Any student who, prior to being admitted to a four-year Major program that has completed more than 30 credit hours will be allowed to apply those excess credit hours which meet the specifications of the program to the four year Major program.

Students must attain a Degree Grade Point Average of at least 2.00 regardless of the point of entry, and must meet continuation requirements as outlined below.

B.Sc. (Major): Continuation Requirements

To continue in the program, a student must maintain a Degree Grade Point Average of 2.00 at each point of assessment. Students who do not meet this minimum will be required to withdraw from the Major program.

There is no minimum term course load requirement for the Major program.

Failed courses: Any student that exceeds 18 credit hours of failing grades after entering a Major program will be required to withdraw from that program. **Students are also subject to the academic assessment policy found in 3.1 Regulations Applicable to all Programs.**

A student will be required to repeat those failed courses specified as required courses for the program; however, with the approval of the department the student may be allowed to substitute a new course for any elective course failed.

Major students reverting to the General program must fulfil all academic requirements of that degree.

B.Sc. (Major): Residence Requirement

To satisfy the Faculty of Science residency requirements, a student must successfully complete at least 60 credit hours at the University of Manitoba. The courses used to satisfy the requirement must be acceptable for credit in the Faculty of Science. Residency requirements apply to both first and second degree students.

B.Sc. Double Major Programs

Students may wish to pursue a Double-Major program in the Faculty of Science. Consultation with, in addition to specific course selection and approval from, the departments involved must occur prior to the commencement of any Double-Major program. Students must also consult with a Faculty of Science Academic Advisor prior to the start of any Double-Major program.

3.4 B.Sc. and B.C.Sc (Honours) Academic Regulations

The Honours programs in the Faculty of Science are study in specific disciplines and the most heavily concentrated programs offered in the faculty. These programs lead most directly to graduate study and are in most cases prescribed extensively by the departments. A student is required to pursue this degree full-time and may be required to achieve higher grade standards than in other degree programs. The programs are regarded as professional training.

Students graduating from the Honours program in Computer Science receive the degree designation Bachelor of Computer Science (Honours), also noted as B.C.Sc. (Honours).

A student electing an Honours program will normally begin Honours work in second year and must meet the entrance requirements set out below. Honours work will consist of three years of study in prescribed courses beyond the first year and will lead to the B.Sc. (Honours) or the B.C.Sc. (Honours).

Students must complete the university written English and Mathematics requirements as described in the chapter, General Academic Regulations, of this Calendar.

Students admitted to Honours programs must complete six credit hours from the Faculty of Arts. Because many Honours programs in the Faculty of Science do not have room for electives in Years 2, 3 and 4, these six credit hours, including the three credit hours of written English, should be completed in Year 1.

Honours Entrance Requirements

To enter an Honours degree program, a student must have completed at least 24 credit hours, have a minimum DGPA of 3.00 (3.5 for entry to Psychology), and a grade of "B" or better in at least one course designated by the department(s). See Calendar entry for each department for specific information on entrance requirements.

Another way to gain entry to the many Faculty of Science Honours programs is through the Second Year Entry Route. If a student finds himself/herself ineligible to enter a desired Honours program following the completion of 24 or more credit hours, eligibility to enter Honours via the second year entry route can be established by taking a minimum of 18 credit hours over consecutive Fall and Winter Terms with a minimum of 9 credit hours in each term. The 18 credit hours chosen must be applicable to the program the student wishes to enter, and the student must achieve at least a "B" average on those 18 credit hours. If a student chooses to attempt more than 18 credit hours over the consecutive Fall and Winter terms, the best applicable 18 credit hours will be used to calculate whether or not the "B" average has been achieved for the purpose of assessing eligibility for entrance to the Honours program of choice. Note: Students wishing to enter an Honours program using the Second Year Entry Route must also have an overall DGPA of at least 3.00 (a 3.5 for Psychology).

Honours Continuation Requirements

To continue in an Honours degree a minimum Degree Grade Point Average of 3.00 (a minimum 3.5 is required for Psychology) is required at each point of assessment.

Students must complete a minimum of 9 credit hours in each Fall and Winter Term (or equivalent for students in the Co-operative option).

Students who do not meet the above minimum requirement will be required to withdraw from the Honours program and may be eligible to pursue the B.Sc. Major program or the B.Sc. General degree program.

Students who accumulate more than 15 credit hours of failed courses after entering the Honours degree program (regardless of the origin of the grade or if the course has been repeated) will be required to withdraw from the program. Students required to withdraw from the Honours program may be eligible to pursue the B.Sc. Major program or the B.Sc. General degree program. **Students are also subject to the academic assessment policy found in 3.1 Regulations Applicable to all Programs.**

Honours Graduation Requirements

To qualify for the degree, Bachelor of Science (Honours), a student must complete a minimum of 120 credit hours or more with a minimum grade of C on all courses contributing to the credit hours that satisfy the program requirements. The Actuarial Mathematics, the Joint Honours in Statistics and Actuarial Mathematics, and the Joint Honours in Mathematics and Physics & Astronomy have more rigorous requirements; please see the calendar entries for more details.

Additionally, students must have a minimum degree grade point average of 3.00.

Honours Residence Requirement

A student must successfully complete a minimum of 60 credit hours at the University of Manitoba. The courses used to satisfy the requirement must be acceptable for credit in the Faculty of Science. Residency requirements apply to both first and second degree students.

Withdrawal from Honours

Honours students reverting to an alternate degree program must fulfil all academic requirements of that degree.

Double Honours Programs

Double Honours programs may be available as specified under departmental headings. Other programs may be arranged in consultation with the departments concerned.

3.5 Co-operative Education Option Academic Regulations: B.Sc. (Major) & B.Sc. and B.C.Sc (Honours)

Co-operative education is a form of experiential learning which integrates the academic education (classroom-based learning) of interested and qualified students with relevant, supervised, and paid work experience (work-based learning) with employers. Co-op students gain valuable skills to guide them through their academic education and prepare them for future careers after graduation.

The Faculty of Science offers a Co-operative Education Option in the following Major programs: Biochemistry, Biological Sciences, Biotechnology (As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.), Chemistry, Computer Science, Genetics, Mathematics, Microbiology, Physics & Astronomy and Statistics.

The Honours programs offering a Co-operative Education Option are: Biochemistry, Biological Sciences, Biotechnology (As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.), Chemistry, Computer

Science, Genetics, Mathematics, Microbiology, Physics & Astronomy, Statistics, Joint Computer Science - Mathematics, Joint Computer Science - Physics and Astronomy, and the Joint Computer Science - Statistics program.

Co-operative education is optional and supplementary to academic requirements of the chosen degree. All regulations governing regular Major and Honours programs apply to the Co-operative Education Option. In addition, the following variations apply:

Entrance

To enter the Co-operative Education Option a student must be eligible to enter the Major or Honours program offered by the department. At the time of application, students must have a minimum Degree Grade Point Average (DGPA) of 2.5 for the Major and 3.0 for the Honours Programs.

The normal point of entry to the Co-operative Education Option is following the completion of second year in the Faculty of Science. Students seeking admission will submit an application during their second year and complete an intake process with the appropriate departmental Co-op Coordinator. Application deadlines are established by the Science Co-op Office.

Students are advised that satisfying the entrance requirements does not guarantee a place in the Co-operative Education Option. The Science Co-op Office reserves the right to determine and select the best-qualified applicants.

Students admitted into the Co-operative Education Option will complete pre-employment training, including workshops, prior to the start of their first co-op work term. The structure and content of this training is developed by the Science Co-op Office. Attendance and completion of this training is mandatory.

Structure and Sequencing

The Co-operative Education Option consists of both academic terms and co-op work terms.

Each academic term can be either four months in duration or eight months in duration, as designated by the Major or Honours department.

Each co-op work term can be either four months in duration or eight months in duration, as designated by the Science Co-op Office. An eight month work term would be counted as the equivalent of two 4 month terms.

Each academic term and each co-op work term will commence in January, May or September.

The sequence of academic terms and co-op work terms is variable to suit the needs of each department, and is designated by the Science Co-op Office in conjunction with each Major or Honours department. All Faculty of Science Co-operative Education Options must end on an academic term.

Students are expected to follow the academic/co-op work term sequence defined by their Major or Honours department from admission through to graduation.

Co-op Work Term Requirements

All Co-operative Education Options require participating students to complete at least three (3) 4-month co-op work terms for a total of a minimum of 12 months' work experience. Each co-op work term is completed with one employer.

Students are required to register in the appropriate co-op work term course and pay the work term fee prior to starting their co-op work term.

Co-operative Education Option students are required to submit a work term report at the end of each co-op work term. These reports are due at times designated by the Science Co-op Office. In order to remain in the Co-operative Education program, a student must obtain a grade of "Pass" for each work term report. The Science Co-op Office will provide students with instructions regarding the content and format requirements of the work term reports.

While on a co-op work term, students are not permitted to take more than six hours of academic credit, and may not take more than one course at a time.

Academic Term Requirements

Coursework requirements of the Co-operative Education Option are equivalent to the coursework requirements of the four-year Major program. For students completing an Honours program, the coursework requirements of the Co-operative Education Option are equivalent to the coursework requirements of the Honours program with the exception of the Biochemistry, Biotechnology, Genetics and Microbiology programs.

Co-operative Education Option students are required to maintain full-time study while registered for an academic term.

To continue in a four year Major Co-operative Education Option, students must attain a minimum DGPA of 2.50 at each point of assessment. A student's performance will be evaluated following each academic term. In addition, the student must meet all individual course prerequisites for further study and departmental continuation and graduation requirements. Please see department entries for further information. Continuation in the Major Co-operative Education Option is also contingent upon satisfactory performance during co-op work terms.

To continue in an Honours Co-operative Education Option a student must attain a DGPA of 3.00 or higher at each point of assessment. A student's performance will be evaluated following each academic term. In addition, the student must meet all individual course prerequisites for further study and departmental continuation and graduation requirements. Please see department entries for further information. Continuation in the Honours Co-operative Education Option is also contingent upon satisfactory performance during co-op work terms.

Students may be required to withdraw from the Co-operative Education Option for any of the following reasons:

- Failure to maintain the minimum academic requirements of the Faculty of Science and/or Major/Honours program.
- Failure to maintain the minimum credit hour requirements of the academic term in the co-op option.
- Unsatisfactory performance during a co-op work term.
- Failure to submit a co-op work term report or the submitted report does not achieve a "Pass" grade.
- Failure to observe the policies outlined in university governing documents related to Behavioural Policies and Academic Misconduct.
- Having consulted with the Co-op Director and/or Faculty Advisor, in the opinion of the Co-op Coordinator, the student does not possess sufficient ability, skills, aptitude, attitude, diligence or motivation to successfully complete the Co-operative Education Option.

Students who wish to voluntarily withdraw from the Co-operative Education Option must obtain the written approval from their Co-op Coordinator and the Science Co-op Director. Students must submit their withdrawal request to their Co-op Coordinator and receive approval by the withdrawal dates set by the Science Co-op Office for each co-op work term.

Students are not normally permitted to withdraw from the Co-operative Education Option once they have secured a position for their co-op work term; whether the position was obtained through the Science Co-op Office or through students' own self-directed job search. Enrollment in the applicable co-op course(s) will be maintained and students are responsible for all assessed fees for the duration of the co-op work term and for meeting all academic requirements.

Students who accumulate more than 18 credit hours of failed courses after entering the four-year Major program (regardless of the origin of the grade or if the course has been repeated) will be required to withdraw from the Major Co-op program. Students are also subject to the academic assessment policy found in 3.1 Regulations Applicable to All Programs.

Students who accumulate more than 15 credit hours of failed courses after entering the Honours degree program (regardless of the origin of the grade or if the course has been repeated) will be required to withdraw from the Honours Co-op program. Students required to withdraw from the Honours program may be eligible to pursue the B. Sc. Major program or the B. Sc. General degree program. Students are also subject to the academic assessment policy found in 3.1 Regulations Applicable to all programs

Four year Major Co-operative Education Option students who are required to withdraw, or voluntarily revert to an alternative degree program must fulfill all academic requirements of that degree.

Honours Co-operative Education Option students who are required to withdraw or voluntarily revert to an alternative degree program must fulfill all academic requirements of that degree.

3.6 Minors: Academic Regulations for Science Students

Students in B.Sc. Major and Honours programs may, if they wish, declare and complete a Minor from any department or interdisciplinary program at the University of Manitoba which offers a listed Minor. In the Faculty of Science Minors are listed in the program charts for each department and interdisciplinary program. Other available Minor requirements can be found within the appropriate sections of the departmental/school/faculty offerings. Completion of a Minor in a B.Sc. Major or Honours program is entirely optional. Students may not, however, declare both their Major and Minor from the same department/interdisciplinary program. It should be noted that for Honours students any consideration of completing a Minor should be made early on, due to restricted opportunities in later years of their programs. Completion of a Minor may require that a student take more than the minimum number of credit hours required for graduation. If they wish, students may choose to complete and declare multiple Minors in the four year Major and Honours degree programs.

The Minor is not available to students in the B.Sc. General Degree program.

A Minor will normally consist of a minimum of 18 credit hours specified by the department(s) offering the Minor. Courses required in a student's specific Honours or Major degree program are acceptable for use in a chosen Minor, subject to the Faculty of Science regulation stating that students may not declare both their Major and Minor from the same department or interdisciplinary program.

Minors not offered by the Faculty of Science can be selected from the following list. For further information about courses required for the completion of a specific Minor, please refer to the section of the calendar that relates to the chosen area.

Animal Systems, Entomology, Food Science, Plant Biotechnology, Soil Science, Art History, Anthropology, Asian Studies, Canadian Studies, Catholic Studies, Central and East European Studies, Classics, Greek, Latin,

Economics, English, Film Studies, Theatre, French, Spanish, Italian, German, Russian, Ukrainian, Polish, History, Icelandic, Labour Studies, Linguistics, Medieval Studies, Native Studies, Indigenous Languages, Near Eastern and Judaic Studies, Philosophy, Political Studies, Psychology, Religion, Sociology, Ukrainian Canadian Heritage Studies, Women's and Gender Studies, Geography, Geological Sciences, Physical Geography, Environmental Science, Environmental Studies, Human Nutrition and Metabolism, Family Social Sciences, Textile Sciences, Management*, and Music.

***Faculty of Management/Asper School of Business:** For entry to the Minor, the prerequisite is a grade of "C" or better in the first 6 hours of Business courses. The Management Minor will consist of any 18 hours of credit in courses offered by the Asper School of Business. Enrolment in this program will be limited to 20 students annually. Students planning to enrol in this minor must consult a Faculty of Science Academic Advisor.

3.7 Dean's Honour List, Degree with Distinction, First Class Honours

Dean's Honour List (all programs)

Students who complete 12 credit hours or more, who achieve a Term Grade Point Average of 3.75 or higher will be placed on the Dean's Honour List. The Dean's Honour List will be calculated after each term.

Degree with Distinction (4-Year Major Degree and 3-Year General Degree)

To obtain a Degree with Distinction a student must achieve a final minimum Degree Grade Point Average of 3.80. The term "Degree with Distinction" will appear on the student's parchment and the student's transcript of marks.

First Class Honours (Honours Degree Only)

To graduate with First Class Honours the student must achieve a final minimum Degree Grade Point Average of 3.80. The term "First Class Honours" will appear on the student's parchment and on the student's transcript of marks.

3.8 Faculty of Science Academic Awards

Refer to the University's Award Database for information on awards available to Faculty of Science Students:

<http://umanitoba.ca/student/fin-awards/scholarships/1507.html>

To be eligible for any award granted exclusively on the basis of academic performance, a student must be enrolled in 100% of a full program as defined by the department.

3.9 Academic Advising

Science General Office: 239 Machray Hall
Telephone: (204) 474 8256

Toll-Free: 1 800 432 1960, extension 8256

E-mail: science_advisor@umanitoba.ca

Website: www.umanitoba.ca/science

Science Advisor Availability: www.sci.umanitoba.ca/undergraduate-students/academic-resources/academic-advisors

Student Responsibility

Students must ensure that they are selecting the correct courses that will enable them to satisfy their degree requirements. Specific degree requirements are listed in the program charts found in the departmental/program sections of this chapter. Final completion of specific degree requirements is the student's responsibility. Academic Advisors are available to answer any questions regarding a student's academic progress.

AURORA STUDENT will not check degree requirements. Students are responsible for knowing the requirements of their degree. Consult with a Science Academic Advisor for advice and assistance if uncertain about degree requirements.

AURORA STUDENT will not prevent a student from registering in two (or more) courses that are designated as not to be held for credit with one another. It is the student's responsibility to ensure that they are not registered for courses that are ineligible to be held for credit with one another. Read the course descriptions carefully. If unsure about a course you have selected, check with a Science Academic Advisor prior to the revision deadline. No academic concessions will be granted in this regard.

Students cannot add or change a course classification through AURORA STUDENT. Therefore, if an undergraduate student wishes to take a course as a Special Student in their degree, as an Auditor, or as a Challenge for Credit, they must add this course in person in the Science General Office within the normal deadlines for such activity.

General Degree Program

Students in the B.Sc. General program are not required to contact a Science Academic Advisor before registration; however, they are strongly advised to do so. A Science Academic Advisor can answer any questions about degree progress and entry to professional faculties that may affect registration.

Students reverting from a Major or Honours program to the B.Sc. General program must consult a Science Academic Advisor prior to registration, so that their university records may be changed.

Science Academic Advisors may check students' degree progress periodically. These checks are completed after registration. Reminder: It is the student's responsibility to know and satisfy all degree requirements.

Honours, Major, and Co-operative Options

Honours students are required to register in a minimum of 9 credit hours during each Fall and Winter Term in which they are registered. Prior to declaring graduation, Honours, Major, and Co-op students are encouraged to have their programs checked by Science Academic Advisors on a regular basis.

Students entering or changing a program must see a Science Academic Advisor so that eligibility can be checked and university records updated.

SECTION 4: Departments in, and Programs and Courses offered by the Faculty of Science

Important Course Selection Information

The courses required to complete the specific Honours, Major, General and Minor programs in Science are listed in the program charts found within each department or program entry in this section.

Not all courses included in the course description sections below are currently offered. The course schedule for the current academic year is available through [AURORA Student](#). Students should note that space in Honours and Major specific courses may be reserved for students in those programs.

All Honours and Major Degree Programs (4-year degrees) offered by the Faculty of Science satisfy the University "M" (Mathematics) requirement.

Students registered in the 3-Year General Degree programs are responsible for ensuring that they successfully complete a course that will satisfy the University's "M" (Mathematics) requirement.

Students in all programs are responsible for ensuring that they successfully complete a course that will satisfy the University's "W" (Written English) requirement. It is strongly recommended that this requirement be completed in Year 1.

For a complete listing of courses that satisfy the University's "W" and "M" requirements refer to appendix A of the General Academic Regulations section of this Calendar.

In the Faculty of Science, unless otherwise noted, a minimum grade of "C" is required in any course listed as a prerequisite. See course descriptions.

Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program charts. See course descriptions in Aurora Student for information on course equivalencies; Université de Saint-Boniface courses are taught in French and end in odd numbers, eg: BIOL 1021.

NOTE: Course prerequisites may be waived with written consent of the department.

4.1 Actuarial Mathematics

Campus Address/General Office: 640 Drake Centre
Telephone: 204 474 6412
Email Address: warrencentre@umanitoba.ca
Website: www.umanitoba.ca/actuarial

4.1.1 Program Information

This is an interdisciplinary program leading to a Bachelor of Science (Honours) degree in Actuarial Mathematics offered in collaboration with the Warren Centre for Actuarial Studies and Research of the I.H. Asper School of Business. The program covers mathematical, statistical, financial and economic concepts required to develop skills in the modelling and management of financial risk and contingent events. In the Faculty of Science the program has a greater emphasis on the mathematical and statistical courses than does the Actuarial Mathematics program offered by the I.H. Asper School of Business.

The Warren Centre, with the department of Statistics, offers a joint Honours program (see Section 4.13.3).

To enter the program, a student must have completed a minimum of 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in one of the courses listed in Year 1 of the program chart. All of the courses listed in Year 1 of the program chart are program requirements and students are strongly urged to take them in the first year.

To continue in the Actuarial Mathematics Honours program, students must maintain a minimum DGPA of 3.00 and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00, a minimum grade of "C+" in each of the Honours Program Specific courses (see below), and a minimum grade of "C" on all remaining courses that contribute to the 120 credit hours of the degree.

Honours Program Specific Courses

Students must achieve a minimum grade of "C+" in each of the following for both prerequisite purposes and graduation requirements:
ACT 2020, ACT 2120, ACT 2210, ACT 3130, ACT 3230, ACT 3340, ACT 3630 (or both ACT 3130 and ACT 3230), ACT 4020, ACT 4030, ACT 4060, ACT 4160.

4.1.2 Actuarial Mathematics Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---|--|
| HONOURS ACTUARIAL MATHEMATICS 120 CREDIT HOURS | | | |
| ECON 1010, ECON 1020 MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 STAT 1150 ¹ , STAT 2150 | ACT 2020, ACT 2120, ACT 2210 STAT 2400, STAT 3400 ACC 1100 ² , FIN 2200 ² MATH 2720 GMGT 2010 ⁴ | ACT 3630 (or both ACT 3130 and ACT 3230), ACT 3340, ACT 4020 ³ , ACT 4030 ³ STAT 3050, STAT 3800 | ACT 4060, ACT 4160 STAT 3470 ³ , STAT 3490 ³ MSCI 2150 |
| 6 credit hours of electives | 3 credit hours of electives | 9 credit hours of electives ⁵ | 15 credit hours of electives ⁵ |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

JOINT STATISTICS - ACTUARIAL MATHEMATICS HONOURS: See Section 4.13.3

NOTES:

¹ The following substitutions are allowed: MATH 1300 (C) or MATH 1310 in place of MATH 1220 (C), MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230 (C), MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232 (C), STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150.

² Students are strongly urged to complete ACC 1100 in Year 1 when possible. FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that it be completed in Year 2. Note that ACC 1100 is a prerequisite for FIN 2200.

³ STAT 3470, STAT 3490, ACT 4020 and ACT 4030 may be taken in Year 3 or 4.

⁴ GMGT 2010 fulfills the written English requirement.

⁵ It is recommended that electives in Year 3 and Year 4 be chosen from Actuarial Mathematics, Business courses, Computer Science, Economics, Mathematics (3000 or 4000 level) and Statistics (4000 level courses). Other electives may be selected through consultation with the program director. Examples include:

Year 3: FIN 3410, FIN 3450, FIN 3480, MSCI 3400, STAT 3480

Year 4: FIN 4240, STAT 4100, STAT 4200, STAT 4520, STAT 4530, STAT 4630.

4.2 Biochemistry

Head: Deborah Court - Department of Microbiology; Viktor Nemykin - Department of Chemistry

Campus Address/General Office: 213 Buller Building / 360 Parker Building
Telephone: 204 474 9372 / 204 474 9321

Email Address: Deborah.Court@umanitoba.ca

/ Viktor.Nemykin@umanitoba.ca

Website: <http://umanitoba.ca/faculties/science/departments/microbiology/>
OR <http://www.umanitoba.ca/chemistry>

4.2.1 Program Information

Biochemistry Honours Degree Requirements

To enter the joint Honours program in Biochemistry, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00 and also obtained a minimum grade of "B" in CHEM 1310 and a minimum grade of "C+" in BIOL 1020, BIOL 1030, PHYS 1020 (or PHYS 1050), PHYS 1030 (or PHYS 1070), MATH 1500 and MATH 1700 are required courses in the program and students **are strongly encouraged to complete them in first year.**

To continue in the Biochemistry Joint Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the Biochemistry Joint Honours degree, a student must achieve a minimum DGPA of 3.00 and obtain a minimum grade of "C" on the courses that make up the 120 credit hours of the degree.

Chemistry and Microbiology Option Courses for Biochemistry Honours Students:

Chemistry: CHEM 2290, CHEM 3360, CHEM 3370, CHEM 3390, CHEM 3400, CHEM 3490, CHEM 3580, CHEM 3590, CHEM 4370, CHEM 4570, CHEM 4580, CHEM 4590, CHEM 4610 (6), CHEM 4640, CHEM 4650, CHEM 4670, CHEM 4680, CHEM 4690

Microbiology: MBIO 3000, MBIO 3010, MBIO 3030, MBIO 3280, MBIO 3430, MBIO 3470, MBIO 4010, MBIO 4020, MBIO 4410, MBIO 4440, MBIO 4480, MBIO 4520, MBIO 4570, MBIO 4580, MBIO 4600, MBIO 4610, MBIO 4670 (or MBIO 4672)

Option courses no longer offered that may be used if taken prior to their deletion: CHEM 3380, CHEM 4600, MBIO 2280, MBIO 3440, MBIO 3480, MBIO 4320, MBIO 4470, and MBIO 4510. NOTE: Several of these courses may not be held with current course offerings found on the above option lists. Please refer to the calendar descriptions for more information about specific course restrictions.

Other options may be considered and approved by the program advisor.

Biochemistry Four Year Major Degree Requirements

To enter the joint four year Major program, a student must have completed a minimum of 24 credit hours with a minimum DGPA of 2.00, and also obtained a minimum grade of "C+" in CHEM 1310, and a minimum grade of "C" in BIOL 1020. BIOL 1030, PHYS 1020 (or PHYS 1050), PHYS 1030 (or PHYS 1070), MATH 1500, and MATH 1700 are required courses in the program and students are strongly encouraged to complete these courses in first year.

To continue in the Bachelor of Science Major degree program, students must maintain a minimum DGPA of 2.00.

To graduate with the Bachelor of Science Major in Biochemistry, a student must complete 120 credit hours or more, with minimum grades of "C" on all Major Program Specific courses (see below), passing grades ("D" or better) on the remaining courses, and a minimum DGPA of 2.00.

Major Program Specific Courses:

Chemistry: CHEM 2210, CHEM 2220, CHEM 2260, (CHEM 2280), CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370), CHEM 2400 (CHEM 2380), CHEM 2470, CHEM 3570, CHEM 4630 and whichever one of CHEM 4620, CHEM 4360, CHEM 4370 is selected.

Microbiology: MBIO 1010, MBIO 2020, MBIO 3410, and whichever one of MBIO 3450, MBIO 3460 or MBIO 4540 is selected.

Students in this program should note the following:

Students must satisfy any course prerequisites and co-requisites for courses selected. Care should be taken to select courses in their proper sequence, e.g. CHEM 2370 (MBIO 2370) and MBIO 2020 should be taken in Year 2 as they are prerequisite to a number of subsequent required or optional courses.

Normally 4000 level courses are available only to students in their fourth year. MBIO 4530 and MBIO 4670 are not available to Major students.

Students are encouraged to elect other courses pertinent to the study of biochemistry although this is not required for completion of the degree. The departments of Microbiology and Chemistry will be glad to suggest such supplementary courses upon request.

Students who may wish to transfer to the Honours program in Biochemistry following Year 2 should be sure to complete all courses recommended in Year 2 (see chart below).

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to Section 3.5 of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students are required to complete the first and second year requirements of the program and MBIO 3410 before beginning their first co-op work term.

Major Co-op

The course and minimum grade requirements for **entry and continuation** in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students are encouraged, but not required, to take 15 credit hours in each academic term in the third and subsequent years. Students are required to complete the first and second year requirements of the program and [MBIO 3410](#) before beginning their first co-op work term.

4.2.2 Biochemistry Programs (offered Jointly by the Departments of Chemistry and Microbiology)

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--|---|
| JOINT HONOURS 120 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) MATH 1500 ¹ , MATH 1700 ¹ | CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 MBIO 1010 ⁶ , MBIO 2020 | CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460 | CHEM 4360, CHEM 4620, CHEM 4630, (CHEM 4710 (6) or MBIO 4530 (6)) MBIO 4540 |
| In Year 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement ² 3 credit hours chosen from COMP, MATH, or STAT ⁵ | | 18 credit hours selected from the list of Microbiology and Chemistry optional courses (listed above). 12 credit hours selected from the Faculty of Science ⁵ | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| JOINT HONOURS CO-OPERATIVE OPTION ³ 120 CREDIT HOURS | | | |

| | | | |
|---|--|---|--|
| CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) | CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 | CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460 | CHEM 4360, CHEM 4620, CHEM 4630 MBIO 4540 |
| MATH 1500 ¹ , MATH 1700 ¹ | MBIO 1010 ⁶ , MBIO 2020 | | |
| In Year 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement ² | | 24 credit hours selected from the list of Microbiology and Chemistry Optional courses listed above. | |
| 3 credit hours chosen from COMP, MATH, or STAT ⁵ | | 12 credit hours selected from the Faculty of Science ⁵ | |
| | | Work Terms: MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| JOINT FOUR YEAR MAJOR (Including Co-operative Option)^{3,4} 120 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) | CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 | CHEM 3570 MBIO 3410 One of: MBIO 3450, MBIO 3460, MBIO 4540 | CHEM 4630 One of: CHEM 4620, CHEM 4360, CHEM 4370 |
| MATH 1500 ¹ , MATH 1700 ¹ | MBIO 1010 ⁶ , MBIO 2020 | | |
| In Year 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement ² | | 24 credit hours of Microbiology and Chemistry (minimum 6 credit hours from each dept.). Of these 24 credit hours, at least 12 hours must be 4000 level courses. | |
| 3 credit hours chosen from COMP, MATH, or STAT ⁵ | | 21 credit hours of approved electives ⁵ | |
| | | Work Terms (if Co-op Selected): MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |

NOTES:

¹ MATH 1230 or MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

² As there are no open electives in Year 2 of the program, students should complete the university written English requirement in Year 1. If not completed in Year 1, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.

³ IMPORTANT: Students in the co-operative programs must ensure that they are able to satisfy the prerequisites for all 3000 and 4000 level courses they plan to take.

⁴ The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

⁵ MATH 1010, MATH 1020, the former MATH 1190, the former COMP 1260, the former COMP 1270, COMP 1500 and COMP 1600 may not be chosen to satisfy this requirement

⁶ MBIO 1010 can be taken in Year 1 after BIOL 1020.

(The number 6 in brackets indicates a six credit hour course.)

4.3 Department of Biological Sciences

Head: Steven Harris

Campus Address/General Office: 212 Biological Sciences Building

Telephone: (204) 474 9610

Email Address: Steven.Harris@umanitoba.ca

Website: http://umanitoba.ca/science/biological_sciences/

4.3.1 Biological Sciences

Biology is one of the most rapidly evolving and diverse sciences in the modern world, exploring all aspects of life from biomolecules to ecosystems. The Department of Biological Sciences is committed to advancing our understanding of biological structure and function, and developing new tools and technologies to address current and emerging problems facing all living organisms. Connections will be forged between molecules, cells, tissues, organs, organisms, populations, communities, and ecosystems, highlighting the need to explore all levels of biological interactions. Programs emphasize the organism as the key element in studies of the development and evolution of form and function, and the role in adaptations to the environment. Based on a core of fundamental biological principles, our programs explore diverse areas such as organismal biology, environmental biology, genetics, cell biology and development, physiology, ecology, behaviour, and systematics and evolution. The Department focuses on the integration of research and teaching expertise to create opportunities for growth and novel synergisms in the training of future leaders in the field.

4.3.2 B.Sc. Honours: Biological Sciences

The Honours program is designed for students planning a professional career in Biological Sciences at the graduate level. Such students are strongly advised to enter the Honours program at the beginning of second year.

Appropriate courses will be arranged in consultation with the Theme Advisor who may be contacted through the Biological Sciences Office (212 Biological Sciences Building). Students must select a specific theme area of study as part of their Biological Sciences program. See the information below outlining the different theme areas offered by the Department of Biological Sciences.

To enter the Biological Sciences Honours program a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and obtained a minimum grade of "B" in BIOL 1030. CHEM 1300, CHEM 1310, STAT 1000 and the 3 credit hours of specified Mathematics or Physics are program requirements and students are strongly urged to complete these courses in first year.

To continue in the Biological Sciences Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00, and obtain a minimum grade of "C" on the courses that make up the 120 credit hours of the degree.

4.3.3 B.Sc. (Major): Biological Sciences

The four year Major program is also designed for students planning a professional career in the Biological Sciences, but who may not be considering graduate training. It will provide intensive training in all areas of Biology comparable to that of the Honours program, but has less demanding performance requirements. Additionally, students may

complete the Major degree requirements on a part-time basis if they so choose. Students who so wish, and have appropriate standing and course selection, may transfer to the Honours program at any time up to the commencement of Year 4.

Appropriate courses will be arranged in consultation with the Theme Advisor who may be contacted through the Biological Sciences Office, 212 Biological Sciences Building. Students must select a specific theme area of study as part of their Biological Sciences program. See the information below outlining the different theme areas offered by the Department of Biological Sciences.

Course BIOL 4100 is not available to students in this program.

To enter the Biological Sciences four year Major program a student must have completed a minimum of 24 credit hours with a minimum DGPA of 2.00, and obtained a minimum grade of "C+" in BIOL 1030, CHEM 1300, CHEM 1310, STAT 1000 and the 3 credit hours of specified Mathematics or Physics are program requirements and students are strongly encouraged to complete these courses in first year.

To continue in the Bachelor of Science Major degree, a student must maintain a minimum DGPA of 2.00.

To graduate with the Bachelor of Science (Major) in Biological Sciences, a student must obtain a minimum DGPA of 2.00 and a minimum grade of "C" or better in all required courses and required option courses.

4.3.4 Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Before starting the first co-op work term, the prerequisite courses listed below must be completed: BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, STAT 1000, 3 credit hours of specified Mathematics or Physics, BIOL 2300, BIOL 2500, BIOL 2520 and BIOL 3100. In addition, students must complete 9 credit hours from program core courses as follows: students must select one course from Group A (BIOL 2200, BIOL 2210), plus one course from

Group B (BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262), plus one additional course from either Group A or Group B.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Before starting the first co-op work term, the prerequisite courses listed below must be completed: BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, STAT 1000, 3 credit hours of specified Mathematics or Physics, BIOL 2300, BIOL 2500, and BIOL 2520. In addition, students must complete 9 credit hours from program core courses as follows: students must select one course from Group A (BIOL 2200, BIOL 2210), plus one course from Group B (BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262), plus one additional course from either Group A or Group B.

4.3.5 Biological Sciences Theme Areas

I. Cell, Molecular and Developmental Biology: Students in the Department of Biological Sciences with an interest in the exciting field of cell and developmental biology can select the Cell, Molecular, and Developmental Biology theme for focus. This theme will provide students a selection of courses that highlight fundamental principles and many important advances in this rapidly growing area of contemporary biology. Students can concentrate on aspects that deal with the molecular structures and processes of cellular life and their roles in the function, reproduction, and development of living organisms. The theme is structured such that students can choose from a broad range of disciplines, including biochemistry, molecular biology, morphology, genetics, cell biology, and developmental biology. The organisms under study in this theme are equally diverse, ranging from microbes through to invertebrates, vertebrates, plants, and fungi. The Department collaborates with many other life sciences departments and this theme allows student to develop a highly flexibly course portfolio that includes courses from the Departments of Biological Sciences, Chemistry, Microbiology, or Plant Science.

Specific courses required for the Cell, Molecular, and Developmental Biology Theme in addition to the core course requirements: BIOL 3542; Plus a minimum of 6 credit hours of Biochemistry: CHEM 2770 (MBIO 2770) and CHEM 2780 (MBIO 2780); or CHEM 2210 and CHEM 2360 (MBIO 2360) and CHEM 2370 (MBIO 2370).

II. Ecology and Environmental Biology: Ecology is the study of interactions between organisms and their environment, both in natural settings and human-influenced habitats. In our society ecology and environmental biology provides a scientific link to the living world. Ecologists study the lives of many organisms including animals, plants, fungi, protists, and bacteria. Interactions among these organisms are investigated at many scales ranging from the microscopic to the global. At the individual level, ecology investigates the impact of environmental factors on organisms through their physiology and behaviour. Ultimately, ecologists link these factors to survival and reproduction in variable environments. At the population level, ecology examines the causes of fluctuations in numbers and changes in distribution of a single species. This work is often the focus of agencies concerned with exploitation, extinction, and rehabilitation of both commercially and esthetically important species. At the community and ecosystem level, ecology considers many coexisting species. It examines the interactions between species within the communities (competition, predation, parasitism, mutualism, etc.) as well as broader investigations of community structure and composition. Ultimately, the skills developed within this theme prepare students for future careers in academia, government agencies, private consulting companies, or NGOs whose mandates encompass ecological and environmental concerns.

Specific courses required for the Ecology and Environmental Biology Theme in addition to the core **course requirements:** BIOL 3310, BIOL 3312, BIOL 3314, STAT 2000.

III. Environmental and Integrative Physiology: The Environmental and Integrative Physiology theme will be of interest to a wide array of students interested in pursuing employment opportunities in the Environmental, Consulting, Pharmaceutical, Healthcare, and Professional job markets. Based on the suggested courses and sub themes within this program students will be able to graduate with an all inclusive degree or specialize in particular disciplines ranging from molecular physiology to whole organism physiology and eco/environmental physiology, a subject area that is at the interface between ecology and physiology. Students will be exposed to modern research techniques in lab classes and will be taught by instructors and faculty with active research programs within the Department of Biological Sciences.

Specific courses required for the Environmental and Integrative Physiology Theme in addition to the core course requirements: 6 credit hours of

Biochemistry CHEM 2770 (MBIO 2770) and CHEM 2780 (MBIO 2780); or CHEM 2210 and CHEM 2360 (MBIO 2360) and CHEM 2370 (MBIO 2370); Plus: two of the following courses (one of which is already required in the four-year Biological Sciences Degree programs): BIOL 3470, BIOL 3472, BIOL 3400 (the former BIOL 3450), BIOL 3452.

IV. Evolution and Biodiversity: Evolution is broadly defined as “descent with modification” and is the process that generates the earth’s biodiversity. The theory of evolution provides a unifying framework for biology because all organisms are descended from a common ancestor. As a result, evolutionary principles permeate research and teaching throughout biology.

Evolutionary biology addresses two overarching questions. (1) What was the history of life? (2) What processes account for adaptation and diversification? Systematics reconstructs the history of life by studying relationships among species, and involves comparisons of physical appearance, development, biochemistry, genetics, behaviour, ecology and biogeography. Evolutionary Genetics investigates how processes such as natural selection, mutation, and migration interact to cause evolutionary change within populations. Evolutionary history, genetics, and ecological context are required to fully understand the evolution of traits, for example body size, wing shape or leaf structure. Thus evolution integrates knowledge from a wide spectrum of sub-disciplines within biology.

Evolutionary biology has wide-ranging practical applications. Principles of evolution are required to understand: the evolution of pathogens such as HIV and avian influenza; domestication of wild species and consequences of genetic modifications; the identification of natural products; long-term responses to environmental change; and human biology. Courses from this theme will prepare students for academia, medicine, and government agencies or NGO’s that emphasize the cataloguing and conservation of biological diversity.

Specific courses required for the Evolution and Biodiversity Theme in addition to the core course requirements:

List A: One of the following: BIOL 3360, BIOL 4300, BIOL 4362, BIOL 4510.

List B: One of the following: BIOL 3200, BIOL 3242, BIOL 3250, BIOL 3270, BIOL 4212, BIOL 4214, BIOL 4216, BIOL 4218.

V. Integrative Biology: The Integrative Biology theme will be of interest to students planning to pursue careers in the various biology sub disciplines and who wish an undergraduate degree that is “interdisciplinary” within the life science departments that cuts across the traditional boundaries. This program will suit students who are interested in the “after degree” program in Education or who are intending to apply to a professional program (e.g. Medicine, Dentistry, Pharmacy, Medical Rehabilitation) and who would like a broad background in the Life Sciences. With the appropriate choice of Biological Science courses it would be possible to indicate the Integrative Biology theme along with a second theme from the department.

Specific courses required for the Integrative Biology Theme in addition to the core course requirements: All five of the following: BIOL 2200, BIOL 2210, BIOL 2240, BIOL 2242, MBIO 1010; One of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470 or BIOL 3472; Plus: 24 credit hours in Biological Sciences (3000/4000 level courses) and 6 credit hours in Microbiology (3000/4000 level courses).

4.3.6 B. Sc. General Degree: Biological Sciences

Courses taken as part of a General degree program provide an introduction to the major fields of study in the Biological Sciences. Commencing in Fall

Term 2009, students will have two options for the General Degree under the Department of Biological Sciences.

Option A: 18 credit hours of 2000, 3000, and (or) 4000 level Biological Sciences courses (subject to the Faculty requirement that of the 36 credit hours in the two chosen advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level);

Option B: Students may choose 36 credit hours from the Biological Sciences provided they select the following courses: each of BIOL 2300¹, BIOL 2500, BIOL 2520; one of BIOL 2200 or BIOL 2210; one of BIOL 2240, BIOL 2242, BIOL 2260 or BIOL 2262; plus 21 additional credit hours (2000 level or higher) from the Biological Sciences including at least a minimum of 6 credit hours at the 3000 or 4000 level.

Students anticipating a transfer to either the four year Major or Honours program at the end of their second or third year should consult with the Departmental Program Advisor before registering.

NOTE:

1 BIOL 2300 has a prerequisite or concurrent requirement of STAT 1000. Students planning this option should consider taking STAT 1000 as part of their Introductory Science requirement.

4.3.7.1 Biological Sciences Program Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|---|
| HONOURS: Cell, Molecular and Developmental Biology Theme (incl. Co-op) 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 One additional course from either Group A or Group B Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360, and CHEM 2370 (theme courses) | BIOL 3100, BIOL 3300 BIOL 3542 ⁴ (theme course) Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 | BIOL 4100 (6) |
| | | 30 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) Enough elective credit hours required to total 120 credit hours for the program | |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required “W” course | | Work Terms (if Co-op Selected): BIOL 3980, BIOL 3990 | Work Terms (if Co-op Selected): BIOL 4980, BIOL 4990 (if necessary) |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|----------|
| FOUR YEAR MAJOR: Cell, Molecular and Developmental Biology Theme (incl. Co-op)² 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 One additional course from either Group A or Group B Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360, and CHEM 2370 (theme courses) | BIOL 3300 BIOL 3542 ⁴ (theme course) Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 30 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) Enough elective credit hours required to total 120 credit hours for the program | |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course | Co-operative Option Requirements (if selected): BIOL 3980, BIOL 3990 | Co-operative Option Requirements (if selected): BIOL 4980, BIOL 4990 (if necessary) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ MATH 1230, MATH 1510, MATH 1520, or MATH 1690 may be taken in place of MATH 1500; MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1240 may be taken in place of MATH 1200.

² IMPORTANT: The programs need not be completed in the manner prescribed in the chart above. The charts indicate one possible arrangement of the 120 credit hours that make up the degree and are meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. These 120 credit hours are a combination of the courses outlined in the charts above and elective courses chosen by the student in consultation with the program advisors.

³ Courses from other departments or faculties may be acceptable for use towards the 30 credit hours of 3000/4000 level Biological Sciences courses required in the Honours and Major Degree programs. Please consult with the department for permission to use alternate courses.

⁴ The former BIOL 2540 may be used in place of BIOL 3542.

(The number 6 in brackets indicates a six credit hour course.)

4.3.7.2 Biological Sciences – Program Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|---------------|
| HONOURS: Ecology and Environmental Biology Theme (incl. Co-operative Option) 120 CREDIT HOURS | | | |
| BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000 (theme course) | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 One additional course from either Group A or Group B | BIOL 3100, BIOL 3300 BIOL 3310, BIOL 3312, BIOL 3314 (theme courses) Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 21 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) 15 credit hours of approved electives | BIOL 4100 (6) |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course 15 credit hours of approved electives | Work Terms (if Co-op Selected): BIOL 3980, BIOL 3990 | Work Terms (if Co-op Selected): BIOL 4980, BIOL 4990 (if necessary) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|--------|
| FOUR YEAR MAJOR: Ecology and Environmental Biology Theme (incl. Co-op)² 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, STAT 1000, STAT 2000 (theme course) | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 | BIOL 3300 BIOL 3310, BIOL 3312, BIOL 3314 (theme courses). Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 21 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) Enough elective credit hours required to total 120 credit hours for the program | |

| | | | |
|---|--|--|--|
| | One additional course from either Group A or Group B | | |
| In Year 1 or Year 2 the following must be completed: | | Co-operative Option Requirements (if selected): | Co-operative Option Requirements (if selected): |
| 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 | | BIOL 3980, BIOL 3990 | BIOL 4980, BIOL 4990 (if necessary) |
| 6 credit hours from the Faculty of Arts, including a required "W" course | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 MATH 1230, MATH 1510, MATH 1520, or MATH 1690 may be taken in place of MATH 1500; MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1240 may be taken in place of MATH 1200.

2 IMPORTANT: The programs need not be completed in the manner prescribed in the chart above. The charts indicate one possible arrangement of the 120 credit hours that make up the degree and are meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. These 120 credit hours are a combination of the courses outlined in the charts above and elective courses chosen by the student in consultation with the program advisors.

3 Courses from other departments or faculties may be acceptable for use towards the 21 credit hours of 3000/4000 level Biological Sciences courses required in the Honours and Major Degree programs. Please consult with the department for permission to use alternate courses.

(The number 6 in brackets indicates a six credit hour course.)

4.3.7.3 Biological Sciences - Environmental and Integrative Physiology Theme Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---|---------------|
| HONOURS: Environmental and Integrative Physiology Theme (incl. Co-op) 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 | BIOL 3100, BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 Choose two of the following: | BIOL 4100 (6) |

| | | | |
|---|---|---|--|
| | Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 Plus one additional course from either Group A or Group B Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360, and CHEM 2370 (theme courses) | BIOL 3470, BIOL 3472, BIOL 3400 (the former BIOL 3450) (if not already taken), or BIOL 3452 (theme courses) | |
| In Year 1 or Year 2 the following must be completed: | | Work Terms (if Co-op Selected): | Work Terms (if Co-op Selected): |
| 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 | | BIOL 3980, BIOL 3990 | BIOL 4980, BIOL 4990 (if necessary) |
| 6 credit hours from the Faculty of Arts, including a required "W" course | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

24 credit hours of 3000 or 4000 level Biology courses³ (courses from outside Biology may be approved by the theme advisor)
Enough elective credit hours required to total 120 credit hours for the program

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--------|--------|--------|
| FOUR YEAR MAJOR: Environmental and Integrative Physiology Theme (incl. Co-op) ² 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |

| | | | |
|---|--|--|----------|
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 Plus one additional course from either Group A or Group B Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360, and CHEM 2370 (theme courses) | BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 Choose two of the following: BIOL 3470, BIOL 3472, BIOL 3400 (if not already taken), or BIOL 3452 (theme courses) 24 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) Enough elective credit hours required to total 120 credit hours for the program | |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course | Co-operative Option Requirements (if selected): BIOL 3980, BIOL 3990 | Co-operative Option Requirements (if selected): BIOL 4980, BIOL 4990 (if necessary) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ MATH 1230, MATH 1510, MATH 1520, or MATH 1690 may be taken in place of MATH 1500; MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1240 may be taken in place of MATH 1200.

² IMPORTANT: The programs need not be completed in the manner prescribed in the chart above. The charts indicate one possible arrangement of the 120 credit hours that make up the degree and are meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. These 120 credit hours are a combination of the courses outlined in the charts above and elective courses chosen by the student in consultation with the program advisors.

³ Courses from other departments or faculties may be acceptable for use towards the 24 credit hours of 3000/4000 level Biological Sciences courses required in the Honours and Major Degree programs. Please consult with the department for permission to use alternate courses.

(The number 6 in brackets indicates a six credit hour course.)

4.3.7.4 Biological Sciences Evolution and Biodiversity Theme Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--------|--------|--------|--------|
|--------|--------|--------|--------|

| HONOURS: Evolution and Biodiversity Theme (incl. Co-operative Option) 120 CREDIT HOURS | | | |
|--|---|--|---|
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 Plus one additional course from either Group A or Group B | BIOL 3100, BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 | BIOL 4100 (6) 3 credit hours chosen from the Evolutionary Processes List (A) above 3 credit hours chosen from the Biodiversity course List (B) above 24 credit hours of 3000 or 4000 level Biology courses ³ (courses from outside Biology may be approved by the theme advisor) 15 credit hours of approved electives |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course 18 credit hours of approved electives | Co-operative Option Requirements (if Selected): BIOL 3980, BIOL 3990 | Co-operative Option Requirements (if Selected): BIOL 4980, BIOL 4990 (if necessary) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|---|--------|
| FOUR YEAR MAJOR: Evolution and Biodiversity Theme (incl. Co-op)² 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260, BIOL 2262 | BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 3 credit hours chosen from the Evolutionary Processes List (A) above 3 credit hours chosen from the Biodiversity course List (B) above 24 credit hours of 3000 or 4000 level Biology courses ³ (courses | |

| | | | |
|---|---|---|--|
| | Plus one additional course from either Group A or Group B | from outside Biology may be approved by the theme advisor) | |
| | | Enough elective credit hours required to total 120 credit hours for the program | |
| In Year 1 or Year 2 the following must be completed: | | Co-operative Option Requirements (if selected): | Co-operative Option Requirements (if selected): |
| 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 | | BIOL 3980, BIOL 3990 | BIOL 4980, BIOL 4990 (if necessary) |
| 6 credit hours from the Faculty of Arts, including a required "W" course | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 MATH 1230, MATH 1510, MATH 1520, or MATH 1690 may be taken in place of MATH 1500; MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1240 may be taken in place of MATH 1200.

2 IMPORTANT: The programs need not be completed in the manner prescribed in the chart above. The charts indicate one possible arrangement of the 120 credit hours that make up the degree and are meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. These 120 credit hours are a combination of the courses outlined in the charts above and elective courses chosen by the student in consultation with the program advisors.

3 Courses from other departments or faculties may be acceptable for use towards the 24 credit hours of 3000/4000 level Biological Sciences courses required in the Honours and Major Degree programs. Please consult with the department for permission to use alternate courses.

(The number 6 in brackets indicates a six credit hour course.)

4.3.7.5 Biological Sciences – Program Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|--|--|
| HONOURS: Integrative Biology Theme (incl. Co-operative Option) 120 CREDIT HOURS | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Required Theme courses: BIOL 2200, BIOL 2210, BIOL 2240, BIOL 2242 MBIO 1010 Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360 and CHEM 2370 | BIOL 3100, BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 24 credit hours of 3000 or 4000 level Biological Sciences courses ³ 6 credit hours of 3000 or 4000 level Microbiology courses Enough elective credit hours required to total 120 credit hours for the program | BIOL 4100 (6) |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH | | Work Terms (if Co-op Selected): | Work Terms (if Co-op Selected): |

| | | |
|--|----------------------|-------------------------------------|
| 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 | BIOL 3980, BIOL 3990 | BIOL 4980, BIOL 4990 (if necessary) |
| 6 credit hours from the Faculty of Arts, including a required "W" course | | |
| 12 credit hours of approved electives | | |
| 30 Hours | 30 Hours | 30 Hours |

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|----------|
| FOUR YEAR MAJOR: Integrative Biology Theme (incl. Co-op) 2 120 CREDIT HOURS (Courses listed in chart below and electives) | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000 | BIOL 2300, BIOL 2500, BIOL 2520 Required Theme courses: BIOL 2200, BIOL 2210, BIOL 2240, BIOL 2242 MBIO 1010 Either both of CHEM 2770 and CHEM 2780; or all three of CHEM 2210, CHEM 2360 and CHEM 2370 | BIOL 3300 Choose one of the following: BIOL 3400 (the former BIOL 3450), BIOL 3470, BIOL 3472 24 credit hours of 3000 or 4000 level Biology courses ³ 6 credit hours of 3000 or 4000 level Microbiology courses Enough elective credit hours required to total 120 credit hours for the program | |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course | Co-operative Option Requirements (if selected): BIOL 3980, BIOL 3990 | Co-operative Option Requirements (if selected): BIOL 4980, BIOL 4990 (if necessary) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ MATH 1230, MATH 1510, MATH 1520, or MATH 1690 may be taken in place of MATH 1500; MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1240 may be taken in place of MATH 1200.

² IMPORTANT: The programs need not be completed in the manner prescribed in the chart above. The charts indicate one possible arrangement of the 120 credit hours that make up the degree and are meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. These 120 credit hours are a combination of the courses outlined in the charts above and elective courses chosen by the student in consultation with the program advisors.

³ Courses from other departments or faculties may be acceptable for use towards the 24 credit hours of 3000/4000 level Biological Sciences courses required in the Honours and Major Degree programs. Please consult with the department for permission to use alternate courses.

(The number 6 in brackets indicates a six credit hour course.)

4.3.7.6 Biological Sciences - General Degree and Minor Requirements Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--------|--------|--------|--------|
|--------|--------|--------|--------|

| THREE YEAR GENERAL (90 CREDIT HOURS) | |
|--------------------------------------|---|
| BIOL 1020, BIOL 1030 | 18 credit hours of 2000, 3000, and (or) 4000 level Biological Sciences courses (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level.); or Students may choose all 36 credit hours of advanced level courses from the Department of Biological Sciences as long as courses are selected following the provisions outlined below: Each of BIOL 2300 ¹ , BIOL 2500, BIOL 2520; one of BIOL 2200 or BIOL 2210; one of BIOL 2240, BIOL 2242, BIOL 2260 or BIOL 2262; plus 21 additional credit hours from the Biological Sciences including at least 6 credit hours at the 3000 or 4000 level. |
| MINOR | |
| BIOL 1020, BIOL 1030 | 12 credit hours of 2000, 3000, and/or 4000 level Biology courses. |

NOTES:

1 BIOL 2300 has STAT 1000 as a prerequisite or concurrent requirement. Students in this program may want to consider selecting STAT 1000 as part of their Introductory Science requirement. See Section 3.2 for more information.

(The number 6 in brackets indicates a 6 credit hour course.)

4.3.8 Biological Sciences Course Descriptions-1000 Level**BIOL 1000 Biology: Foundations of Life Cr. Hrs. 3**

A course in unifying principles of biology including cell biology, bioenergetics, cell division, genetics and evolution. May not be used for credit in a Major or Honours program in the Biological Sciences. Not to be held with BIOL 1001, BIOL 1020, BIOL 1021. Prerequisite: Any grade 12 or 40S Mathematics course (50%), or equivalent.

BIOL 1010 Biology: Biological Diversity and Interaction Cr. Hrs. 3

An introduction to biological diversity including prokaryotes, protists, fungi, plants and animals; the form and function of plants and animals and basic concepts of ecology. May not be used for credit in a Major or Honours program in the Biological Sciences. Not to be held with BIOL 1011, BIOL 1030, BIOL 1031. Prerequisite: Any grade 12 or 40S Mathematics course (50%), or equivalent.

BIOL 1020 Biology 1: Principles and Themes Cr. Hrs. 3

(Lab Required) A laboratory-based course in unifying principles of biology including cell biology, bioenergetics, cell division, genetics and evolution. This course is intended for major and honours students in the Biological Sciences. Not to be held with BIOL 1021, BIOL 1000, BIOL 1001, BIOE 2590. Prerequisite: Biology 40S (or equivalent) and any 40S Mathematics (or equivalent) and one of 40S Chemistry or 40S Physics (or equivalent); or BIOL 1000 (C). Students who complete BIOL 1000 as the prerequisite for BIOL 1020 will not be allowed to use both BIOL 1000 and BIOL 1020 towards their degree program as the two courses may not be held for credit with one another.

BIOL 1030 Biology 2: Biological Diversity, Function and Interactions Cr. Hrs. 3

(Lab Required) A laboratory-based course introducing biological diversity including prokaryotes, protists, fungi, plants and animals; the form and function of plants and animals and basic concepts of ecology. This course is intended for major and honours students in the Biological Sciences. Not to be held with BIOL 1031, BIOL 1010 or BIOL 1011, BIOE 2590. Prerequisite: BIOL 1020 or BIOL 1021 (C). NOTE: BIOL 1030 is a prerequisite to further

courses in Microbiology and to most courses in Biological Sciences. It is also intended for students proceeding to Agricultural and Food Sciences, Dentistry, Human Ecology, Medicine, Optometry, Pharmacy, Veterinary Science, Physical Education and Science.

BIOL 1300 Economic Plants Cr. Hrs. 3

(Formerly BOTN 1010) A survey of economically important plants and their products. The history of plant use, plants in folklore and medicine, fermentation and viticulture, domestication of plants, and forestry are the major topics covered. Chemical, structural, and nutritional aspects of plant products are also discussed.

BIOL 1340 The State of the Earth's Environment: Contemporary Issues Cr. Hrs. 3

A presentation of contemporary environmental issues focusing on the scientific basis of problems caused by the growth of human population, use and depletion of resources, pollution, and damage to the environment. The current state of our knowledge bases will be discussed, along with improvements in them that may be necessary. The course will consider needs for action, priorities, and opportunities. May not be used to meet a program requirement of an Honours or Major program in the Biological Sciences. Not to be held with ENVR 1000.

BIOL 1410 Anatomy of the Human Body Cr. Hrs. 3

(Lab Required) (Formerly ZOO 1320) Microanatomy and gross anatomy discussed including changes occurring from conception to old age. Although this course may be used as an elective in an Arts or Science program, it may not be used to meet a program requirement of an Honours or Major program in the Biological Sciences. May not be held with BIOL 1411. No prerequisite. High school Biology strongly recommended.

BIOL 1412 Physiology of the Human Body Cr. Hrs. 3

(Lab Required) Function of all systems discussed with homeostatic regulatory mechanisms as foundation themes. Although this course may be used as an elective in an Arts or Science program, it may not be used to meet a program requirement of an Honours or Major program in the Biological Sciences. Not available to students who have previously obtained credit in, or are currently registered in both of BIOL 2410 (ZOO 2530, BIOL 2411, ZOO 2531) and BIOL 2420 (ZOO 2540, BIOL 2421, ZOO 2541) or BIOL 1413. Prerequisite: BIOL 1410 or BIOL 1411 (ZOO 1320) (C); or one of BIOL 1030, BIOL 1031 (C). This prerequisite is waived for students in the Baccalaureate Program for Registered Nurses.

4.3.8 Biological Sciences Course Descriptions-2000 Level**BIOL 2200 The Invertebrates Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 2600) Biology and phylogeny of invertebrates. Emphasis on common taxa and on those groups of particular phylogenetic significance. Not to be held with BIOL 2201 (ZOO 2601). Prerequisite: one of BIOL 1030, BIOL 1031 (C).

BIOL 2210 The Chordates Cr. Hrs. 3

(Lab Required) (Formerly ZOO 2320) A study of the origin, evolutionary history and structure of the major groups of Chordates. Provides the foundation for more specialized courses such as Biology of Fishes, Ornithology, and Systematics and Biogeography of Fishes. Not to be held with BIOL 2231 (ZOO 2501). Prerequisite: one of BIOL 1030, BIOL 1031 (C).

BIOL 2240 The Non-Flowering Plants Cr. Hrs. 3

(Lab Required) (Formerly BOTN 2110) An introduction to the mosses and liverworts, ferns and their allies, and conifers, specifically treating their structure, reproduction, identification and ecological significance. Not to be held with the former BOTN 2110. Prerequisite: one of BIOL 1030, BIOL 1031 (C).

| | |
|---|-------------------|
| BIOL 2242 The Flowering Plants | Cr. Hrs. 3 |
| (Lab Required) (Formerly BOTN 2010) A study of the structure and function of the flowering plants. Lecture topics are supplemented by laboratory exercises that focus on the anatomy and morphology of roots, stems, leaves and reproductive organs. Prerequisite: one of BIOL 1010 (B), BIOL 1011 (B), BIOL 1030 (C), BIOL 1031 (C). | |
| BIOL 2260 Biology of Fungi and Lichens | Cr. Hrs. 3 |
| (Lab Required)(Formerly BOTN 2210) An introduction to the fungi, both free living and lichenized, with emphasis on the major taxonomic groupings, their organization and structure, their life histories, identification and general economic significance. Not to be held with BIOL 2261. Prerequisite: one of BIOL 1010 (B), BIOL 1011 (B), BIOL 1030 (C), BIOL 1031 (C). | |
| BIOL 2262 Biology of Algae | Cr. Hrs. 3 |
| (Lab Required) (Formerly BOTN 2290, BIOL 3260) Lectures and laboratories dealing with the cellular features of major groups of algae and their phylogenetic and adaptive significance. The basics of algal taxonomy are also covered. Not to be held with the former BIOL 3260. Prerequisite: One of BIOL 1030, BIOL 1031 (C). | |
| BIOL 2300 Principles of Ecology | Cr. Hrs. 3 |
| (Lab Required) (Formerly BOTN 2370, ZOOOL 2370) Principles of ecology at the individual, population, community, and ecosystems levels. This course is also offered as AGECE 2370. It is the normal prerequisite to other courses in ecology. Not to be held with BIOL 2301 (BOTN 2371, ZOOOL 2371), BIOL 2390 (BOTN 2280, ZOOOL 2290), AGECE 2370. Prerequisite: one of BIOL 1030, BIOL 1031 (C). Prerequisite or concurrent requirement: STAT 1000 or STAT 1001 (D). | |
| BIOL 2380 Introductory Toxicology | Cr. Hrs. 3 |
| (Formerly BOTN 2180, ZOOOL 2180) A survey of general principles underlying the effects of toxic substances on biological systems, including consideration of the history, scope and applications of toxicology, the mechanisms of toxic action, and some major types of toxicants. This course is also taught in Environmental Science as ENVR 2180 and in Agriculture as AGRI 2180. Not to be held with BIOL 2381, BIOL 2382 (BOTN 2190, ZOOOL 2190), ENVR 2190, or AGRI 2190. Prerequisites: one of BIOL 1030, BIOL 1031 (C); and one of CHEM 1310, CHEM 1311 or CHEM 1320 (C). | |
| BIOL 2390 Introductory Ecology | Cr. Hrs. 3 |
| (Formerly BOTN 2280, ZOOOL 2290) The course involves a study of the interrelationships of living organisms (including human) with each other and with their environment. It is not normally acceptable as a prerequisite to other courses in ecology. Not to be held with BIOL 2300 (BOTN 2370, ZOOOL 2370), BIOL 2301 (BOTN 2371, ZOOOL 2371), or AGECE 2370. Prerequisite: one of BIOL 1010, BIOL 1030, BIOL 1031 (C). | |
| BIOL 2410 Human Physiology 1 | Cr. Hrs. 3 |
| (Formerly ZOOOL 2530) The mechanisms of action of the body's major control systems (nervous and endocrine) and of the muscular and reproductive systems are examined. Not to be held with BIOL 2411 (ZOOOL 2531) or BIOL 3460 (ZOOOL 3530). Prerequisite: a "C" or better in one of BIOL 1030, BIOL 1031 or BIOL 1412 (ZOOOL 1330); or a "C+" or better in both BIOL 1000 (or equivalent - BIOL 1001) and BIOL 1010 (or equivalent - BIOL 1011). | |
| BIOL 2420 Human Physiology 2 | Cr. Hrs. 3 |
| (Formerly ZOOOL 2540) An examination of homeostatic regulation by the body's major effector organ systems (cardiovascular, respiratory, digestive, renal, and immune). Not to be held with BIOL 2421 (ZOOOL 2541). Prerequisite: Completion of BIOL 2410 (ZOOOL 2530) (D), or BIOL 2411 (ZOOOL 2531), or BIOL 3460 (ZOOOL 3530) (D); or consent of department. | |
| BIOL 2440 Human Reproductive Physiology | Cr. Hrs. 3 |

(Formerly ZOOOL 2140) This course provides an in-depth understanding of human reproduction with particular emphasis on intrinsic control mechanisms and extrinsic methods of regulation of reproduction. This course also provides the basis for the understanding of alterations from normal mechanisms of reproductive processes. Prerequisites: BIOL 1410 (ZOOOL 1320) (C) and BIOL 1412 (ZOOOL 1330) (C); or consent of department. Check with the Department of Biological Sciences for course availability.

BIOL 2500 Genetics 1 **Cr. Hrs. 3**

(Lab Required) (Formerly BOTN 2460) Principles of heredity, gametogenesis and the cytological basis of inheritance in plants and animals. The concepts of dominance and genetic interaction, sex and inheritance, linkage, chromosomal variations, quantitative and population genetics, the genetic code. Not to be held with BIOL 2501 (BOTN 2461), or PLNT 2520. Prerequisite: one of BIOL 1030, BIOL 1031 (C).

BIOL 2520 Cell Biology **Cr. Hrs. 3**

(Formerly ZOOOL 2280) The microscopic and submicroscopic aspects of cellular structure and function are considered with emphasis on the living cell as a dynamic system. Not to be held with BIOL 2521 (ZOOOL 2281). Prerequisite: one of BIOL 1030, BIOL 1031 (C).

4.3.8 Biological Sciences Course Descriptions-3000 Level

BIOL 3100 Skills in Biological Sciences **Cr. Hrs. 3**

This course will introduce students to the concepts and skills necessary to succeed in a research directed Biology-based career, including: communication skills (scientific writing and oral presentations), critical thinking, strategies for employment and graduate training, familiarization with the range of biological research, and exposure to a variety of Biology-based careers. This course may not be held with the former BOTN 3570 or ZOOOL 3750. Prerequisite: This course is restricted to Honours students in the Biological Sciences or departmental permission.

BIOL 3200 Advanced Invertebrate Biology **Cr. Hrs. 3**

Topics of current interest within diverse phyla of Invertebrates to be surveyed. Students may develop approved research proposals and present up-to-date research summaries. Prerequisite: BIOL 2200 or BIOL 2201.

BIOL 3242 Vascular Flora of Manitoba **Cr. Hrs. 3**

(Lab Required) A survey of the vascular plants of Manitoba emphasizing identification, nomenclature and classification, and including brief accounts of the distribution and post-glacial history of the main floristic associations within the province. Students must submit a collection of at least 20 different vascular plants identified to species. A guide to the collection should be obtained from the Department of Biological Sciences office in the Spring/Summer prior to commencing the course. Not to be held with the former BOTN 3070. Prerequisite: BIOL 2240 (or the former BOTN 2110) or BIOL 2242 (or the former BOTN 2010) or permission of the department.

BIOL 3250 Lichens and Bryophytes **Cr. Hrs. 3**

(Lab Required) The biology, evolution, and ecology of lichens and bryophytes. Emphasis is placed on the role of lichens and bryophytes in the ecosystem, gene flow, animal interactions, co-evolution, secondary compounds, and species identification. Not to be held with BIOL 3240 (BOTN 3260) or BIOL 4246 (BOTN 4050). Prerequisite: BIOL 1030 or BIOL 1031 (C).

BIOL 3270 Introductory Parasitology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOOOL 3460) General course covering major parasitic phyla: namely, Protozoa, Platyhelminthes, Aschelminthes, Acanthocephala, and Arthropoda. Emphasis will be on principles of parasitology. Prerequisite or concurrent requirement: BIOL 2200 (ZOOOL 2600) (C), or BIOL 2201 (ZOOOL 2601), or consent of department.

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| BIOL 3280 Forest Botany | Cr. Hrs. 3 |
| (Formerly BOTN 3270) An examination of the structure and dynamics of plant communities in forested ecosystems. Topics include forest type classification, physiological and anatomical responses of representative forest species, decomposition and nutrient cycling, disturbance and forest succession. Prerequisites: BIOL 2242 (BOTN 2010) (C); and one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370 (C); or consent of the department. | |
| BIOL 3290 Medicinal and Hallucinogenic Plants | Cr. Hrs. 3 |
| (Formerly BOTN 3280) A botanical and historical survey of medicinal, hallucinogenic and poisonous plants used in various cultures. Not to be held with BIOL 3291. Prerequisite: a minimum of 30 hours of university credit, or consent of department. | |
| BIOL 3300 Evolutionary Biology | Cr. Hrs. 3 |
| (Lab Required) (Formerly BOTN 3000, ZOOL 3000) Evolution is the ultimate cause of biological diversity. This course introduces the major questions and research methods in evolutionary biology. Topics include evolutionary genetics, adaptation, speciation, and the reconstruction of evolutionary history. May not be held with the former BOTN 3000, ZOOL 3000. Prerequisites: a "C" or better in one of BIOL 2500 (BOTN 2460), BIOL 2501 (BOTN 2461), or PLNT 2520; and any one of the following with a minimum grade of "C": BIOL 2200 (ZOOL 2600), BIOL 2210 (ZOOL 2320), BIOL 2231 (ZOOL 2501), BIOL 2240 (BOTN 2110), BIOL 2260 (BOTN 2210), BIOL 2261, BIOL 3260 (BOTN 2290); or consent of department. | |
| BIOL 3310 Foundations of Population Ecology | Cr. Hrs. 3 |
| (Lab Required) (Formerly ZOOL 3680) The study of living populations, through experimentation and theory, will be examined. Topics investigated will include population regulation, competition, predation, disease, harvest, nonlinear and spatial dynamics and individual based models. Concepts and methods are reinforced through tutorials and evaluated by assignments and examinations. May not be held with the former ZOOL 3680. Prerequisites: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; and STAT 2000 or STAT 2001 (C); or consent of department. | |
| BIOL 3312 Community Ecology | Cr. Hrs. 3 |
| (Formerly BOTN 3540) Lectures and laboratories emphasizing the structure and function of terrestrial biotic communities with emphasis upon selected Manitoba situations. Prerequisite: a C or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; or consent of department. | |
| BIOL 3314 Field Ecology | Cr. Hrs. 3 |
| (Formerly BOTN 3420, ZOOL 3450) Problems, techniques and assumptions involved in measuring parameters of biological populations and environmental variables. A field trip will be held prior to the start of classes. Students must register in the department office by August 5. Prerequisites: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; and STAT 2000 or STAT 2001 (D). | |
| BIOL 3318 Boreal Ecology | Cr. Hrs. 3 |
| (Formerly ZOOL 3380) A survey of ecological factors in the formation, evolution, and survival of northern biota including northern peoples. There will be optional weekend field trips. Prerequisite: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; or BIOL 2390 (ZOOL 2290, BOTN 2280) (C); or consent of department. | |
| BIOL 3340 Biology of Primitive Fungi and Allies | Cr. Hrs. 3 |

Studies on the evolution of ancestral fungi, relevant Chromista and slime molds within the broader context of evolution of derived fungi and ancient groups basal to fungi and animals. The course also encompasses cogent life histories, development, structure, taxonomy, and fundamental biochemistry. General methods for environmental collection, isolation and study of these organisms will be presented in lectures. Prerequisite: BIOL 1010 or BIOL 1011 (B); or BIOL 1030 or BIOL 1031 (C+); Pre-or co-requisite: BIOL 2260 or BIOL 2261 or the former BOTN 2210; or consent of the department.

BIOL 3350 Methods of Data Collection and Analysis in Ecology **Cr. Hrs. 3**

This course will consider methods of collection and analysis of ecological data, emphasizing experimental design of ecological studies, sampling, analysis of ecological data sets, and presentation techniques. This course may not be held for credit with BIOL 4320 (ZOOL 4200). Prerequisites: BIOL 2300 (C) and STAT 2000 or STAT 2001 (D); or consent of department.

BIOL 3360 Animal Behaviour **Cr. Hrs. 3**

(Lab Required) (Formerly ZOOL 3100) An introduction to the study of animal behaviour including key concepts from the parent disciplines of ethology and comparative psychology, the genetic and physiological bases of behaviours, and evolutionary aspects introducing optimality and game theoretical models characteristic of modern behavioural ecology. Laboratory work involves the design and execution of a behavioural project at the Assiniboine Park Zoo. Prerequisites: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; and BIOL 2210 (ZOOL 2320) (C); or consent of department.

BIOL 3370 Limnology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOOL 3500) Lectures and laboratories providing an introduction to the physics, chemistry and biology of lakes. Prerequisite: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370.

BIOL 3372 Wetland Ecology **Cr. Hrs. 3**

Lectures and field exercises examine the biotic (algae, macrophytes, invertebrates, and vertebrates) and abiotic (hydrology, nutrient cycling) properties of Manitoba's wetlands. Various wetland types, including prairie potholes, peatlands, and coastal marshes will be considered in lectures and field work. The course is offered in Summer Session. May not be held with the former BOTN 3580, ZOOL 3580. Prerequisite: a C or better in one of BIOL 2300 (BOTN 2370, ZOOL 2370), BIOL 2301 (BOTN 2371, ZOOL 2371) or AGECE 2370; or consent of department.

BIOL 3400 Plant Physiology **Cr. Hrs. 3**

(Lab Required) (Formerly BOTN 2020, BIOL 3450, PLNT 3500) An integrative view of major physiological processes in plants, spanning the biochemical, cellular, tissue, organ and whole plant levels of organization. The focus will be on photosynthesis, respiration, plant water relations, plant mineral nutrition, and the role of hormonal and extrinsic factors in the regulation of plant growth. This course is taught together with PLNT 3400. Students may not hold credit for both BIOL 3400 and PLNT 3400. Not to be held with the former BIOL 3450 or BOTN 2020 or PLNT 3500. Prerequisites: BIOL 1030 (C); and BIOL 2242 (or equivalent)(C); and a grade of "C" or better in one of CHEM 2360, MBIO 2360, CHEM 2770 or MBIO 2770; or consent of the department.

BIOL 3452 Environmental Plant Physiology **Cr. Hrs. 3**

(Lab Required) A physiological study of plant-environment interactions with emphasis on the development of strategies to survive abiotic stresses including heat, cold, drought, flooding, shade, excess light and UV light. The unique mechanisms used by plants (including the fascinating carnivorous species) to obtain nutrients in deficient environments will also be covered. May not be held with the former BOTN 3010. Prerequisite: one

of BIOL 3400, the former BIOL 3450, the former BOTN 2020, PLNT 3400, or the former PLNT 3500 (C) or consent of the department.

BIOL 3470 Environmental Physiology of Animals 1 Cr. Hrs. 3

(Lab Required) This course is intended to acquaint students with some of the major environmental challenges encountered by animals and stresses the diversity of physiological solutions to these problems in aquatic and terrestrial organisms. Areas covered may include thermal biology, circulation, gas exchange and buoyancy regulation. Laboratories explore related subjects in various animals. This course may not be held for credit with the former BIOL 3462, ZOO 3540. Prerequisite: BIOL 2200 (C) or BIOL 2210 (C); or consent of department.

BIOL 3472 Environmental Physiology of Animals 2 Cr. Hrs. 3

(Lab Required) This course is intended to acquaint students with the control and integration of organ systems and body functions of animals, and their biochemical and physiological adaptations to environmental perturbations. Areas covered may include neuroendocrinology, excretion, and water, salt, and acid-base balance. Laboratories explore related subjects in various animals. This course may not be held for credit with BIOL 3460, or the former ZOO 3530. Prerequisites: BIOL 2200 (C) or BIOL 2210 (C) or consent of department.

BIOL 3500 Genetics 2 Cr. Hrs. 3

(Lab Required) (Formerly BOTN 3460) The course complements Genetics I (BIOL 2500, BOTN 2460, BIOL 2501, BOTN 2461) and deals with various aspects of linkage and crossing over, gene function, allelism, mutation and repair, the use of bacteria and viruses as genetic tools, basics of developmental genetics and extra-nuclear inheritance. May not be held with BIOL 3501. Prerequisite: BIOL 2500 (BOTN 2460) (C), or BIOL 2501 (BOTN 2461) or PLNT 2520 (C). Prerequisite or concurrent requirement: One of CHEM 2370, CHEM 2371, MBIO 2370, MBIO 2371, CHEM 2780, or MBIO 2780; or consent of department.

BIOL 3542 Developmental Biology Cr. Hrs. 3

Principles and concepts of developmental biology will be presented including early embryo development, tissue patterning, morphogenesis, germ cell formation, stem cell biology, organ and nervous system development, growth and regeneration. Fundamental developmental concepts as well as the cellular, genetic and molecular mechanisms behind development will be covered utilizing invertebrate, vertebrate and plant examples. May not be held with the former BIOL 2540 or the former ZOO 2150. Prerequisites: [A "C" or better in one of BIOL 2500, BIOL 2501, PLNT 2520 the former BOTN 2460, or the former BOTN 2461] and [a "C" or better in one of BIOL 2520, BIOL 2521, the former ZOO 2280 or the former ZOO 2281], or consent of the department.

BIOL 3550 Plant Anatomy Cr. Hrs. 3

(Lab Required) (Formerly BOTN 3190) A study of the anatomical aspects of the growth and development of plants cells, tissues and organs. Laboratory exercises will complement material. Prerequisite: BIOL 2242 (BOTN 2010) (C).

BIOL 3560 Comparative Animal Histology Cr. Hrs. 3

(Lab Required) (Formerly ZOO 3060) This course focuses on the cell and tissue organization of animals. Cell morphology and specialization, tissue types and a survey of the cellular and tissue organization of all organ systems are covered. The primary focus is on mammals but comparative aspects of other animal groups are also included. Not to be held with BIOL 3561 (ZOO 3061). Prerequisite: One of BIOL 1030, BIOL 1031 (C). Recommended prerequisite: one of BIOL 2210 (ZOO 2320), BIOL 2231 (ZOO 2501), BIOL 2520 (ZOO 2280), or BIOL 2521 (ZOO 2281).

BIOL 3600 Biological Diversity and Sustainability Cr. Hrs. 3

Anthropogenic drivers of change of many components of biological diversity; the resulting impacts on ecosystem capacity to provide on-going goods and services that are essential constituents of well-being and ultimately sustainability. Prerequisites: BIOL 2300 (C); or BIOL 1030 (C) and BIOL 2390 (C).

BIOL 3980 Work Term 1 Cr. Hrs. 0

(Formerly ZOO 3980, BOTN 3980) Work assignment in business, industry, or government for students registered in the Biological Sciences Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

BIOL 3990 Work Term 2 Cr. Hrs. 0

(Formerly ZOO 3990, BOTN 3990) Work assignment in business, industry, or government for students registered in the Biological Sciences Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.3.8 Biological Sciences Course Descriptions-4000 Level

BIOL 4100 Honours Thesis Cr. Hrs. 6

The student will conduct a research project, chosen in consultation with a Biological Sciences faculty member acting as an advisor, and produce a thesis in which the project, the results and conclusions are presented. The student will defend the thesis at an oral examination held on completion of the thesis. This course is restricted to 3rd and 4th year Honours Biological Science students. Not to be held with the former BOTN 4600 or the former ZOO 4110. Prerequisite: BIOL 3100 or the former BOTN 3570 or the former ZOO 3750, or consent of department.

BIOL 4210 Biology of Fishes Cr. Hrs. 3

(Lab Required) (Formerly ZOO 4170) Lectures survey organ systems, life history, and the population biology of fishes. The ecological analysis of fish communities is addressed through a field trip and a series of workshops on the analysis of field data. Evaluation is based upon work related to the field trip and examinations based upon the lecture material. Prerequisite: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C).

BIOL 4212 Systematics and Biogeography of Fishes Cr. Hrs. 3

(Lab Required) (Formerly ZOO 4220) A study of the evolutionary history, interrelationships and distribution patterns of the fish-like vertebrates. Laboratories will cover the identification of the major groups of fish-like vertebrates. Prerequisite: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C); or consent of department.

BIOL 4214 Biology of Amphibians and Reptiles Cr. Hrs. 3

(Lab Required) (Formerly ZOO 4230) Lectures consider the evolution, biology and adaptations of amphibians and reptiles. Laboratories and student presentations will deal with classification, structure, identification, and methods of field and laboratory study of these animals. Prerequisite: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C); or consent of department.

BIOL 4216 Biology of Birds Cr. Hrs. 3

(Lab Required) (Formerly ZOO 4240) Biology of birds including: morphology, systematics, evolution, life histories and breeding biology, ecology, migration, and distribution of birds. Prerequisite: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C). Prerequisite or concurrent requirement: BIOL 3360 (ZOO 3100).

BIOL 4218 Biology of Mammals Cr. Hrs. 3

(Lab Required) (Formerly ZOO 4250) Structure, classification, evolution, life histories and distribution of mammals and their relation to human cultures.

Techniques of studying mammals. Identification of the mammals of Manitoba. Offered in 2009-2010 and alternate years thereafter. Prerequisites: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C); and one of BIOL 2300 (BOTN 2370, ZOO 2370), BIOL 2301 (BOTN 2371, ZOO 2371) or AGE 2370 (C); or consent of department.

BIOL 4220 Marine Biodiversity **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4260) Examines key ecological principles governing the maintenance of marine biodiversity, particularly in northern ecosystems. Topics include the definitions and global patterns of biodiversity and the ecological mechanisms influencing changes in these patterns in the context of applied population, community and ecosystem ecology. The course will also emphasize practical solutions, including fisheries' harvest models and marine protected areas. Prerequisites: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOO 2370), BIOL 2301 (BOTN 2371, ZOO 2371) AGE 2370, or BIOL 2390 (BOTN 2280, ZOO 2290); or consent of department.

BIOL 4262 Wildlife and Fisheries Parasitology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4720) Parasites of major vertebrate groups of economic importance in temperate regions. Emphasis on: identification, means of control, and how to evaluate the impact of parasites on animal populations. A major project is required. Prerequisite: BIOL 3270 (ZOO 3460) (C).

BIOL 4300 Evolution and Adaptation **Cr. Hrs. 3**

Lectures and discussion on advances in evolutionary research. Topics will include systematics, evolutionary genetics, evolution and development, co-evolution, mating systems, species ranges, eco-evolutionary dynamics, and evolution in society. This course may not be held for credit with either of BIOL 4240 or BIOL 4242. Prerequisite: BIOL 3300.

BIOL 4310 Applications of Population Ecology in Fisheries and Wildlife **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4850) The material introduced in BIOL 3310 (ZOO 3680) is developed into the quantitative analyses of field data to form a basis for conservation and management. Topics covered include: surplus harvest models, virtual population analysis, spatial population modeling, bioeconomics, and quantitative adaptive management. Concepts are reinforced through tutorials. Prerequisite: BIOL 3310 (ZOO 3680).

BIOL 4312 Analysis of Biological Communities **Cr. Hrs. 3**

(Formerly BOTN 4650) A survey of methods and approaches to the analysis of biological and environmental data containing many variables. Offered in alternate years. Not to be held with BIOL 7440 (BOTN 7440). Prerequisites: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOO 2370), BIOL 2301 (BOTN 2371, ZOO 2371) or AGE 2370; and STAT 2000 or STAT 2001 (C).

BIOL 4330 Plant Interactions **Cr. Hrs. 3**

(Formerly BOTN 4150) This course examines the ecology of interactions between plants and their biotic environment - other plants, animals and soil microbes. This is a reading course. Students will participate in discussions of key papers, examine recent and historic literature, and write a term paper examining a selected topic. Prerequisite: a "C" or better in BIOL 2300; or consent of department.

BIOL 4362 Behavioural Ecology and Cognitive Ethology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4280) Examines proximate and ultimate questions relating to mating and parental behaviour, communication, social parasitism and animal intellect to provide insight into the intimate relationship between behavioural evolution and the environment. Laboratory and field exercises complement major topics considered in lectures. Prerequisite: BIOL 3360 (ZOO 3100) (C); or consent of department.

BIOL 4374 Aquatic Botany **Cr. Hrs. 3**

(Formerly BOTN 4010) This course examines the relationship between algae, fungi and macrophytes, and the physical, chemical and biological properties of the aquatic environment. Specific adaptations to life in water, and patterns of distribution and succession in rivers, lakes and wetlands will be covered. Prerequisite: a "C" or better in one of BIOL 2300 (BOTN 2370, ZOO 2370), BIOL 2301 (BOTN 2371, ZOO 2371) or AGE 2370; or consent of department.

BIOL 4380 Environmental Toxicology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4840) A survey of the principles governing the dynamics of chemicals in the environment, with emphasis on the biological systems, using case histories of known pollution problems. Prerequisites: a "C" or better in one of CHEM 2370, CHEM 2371, MBIO 2370, MBIO 2371, CHEM 2780, or MBIO 2780; plus a "C" or better in one of BIOL 2300 (BOTN 2370, ZOO 2370), BIOL 2301 (BOTN 2371, ZOO 2371) or AGE 2370; plus a "C" or better in one of BIOL 2410 (ZOO 2530), BIOL 2411 (ZOO 2531) or BIOL 3460 (ZOO 3530); and BIOL 3462 (ZOO 3540) (C); or consent of department.

BIOL 4400 Revegetation of Disturbed Lands **Cr. Hrs. 3**

A physiological and ecological study of disturbed plant communities with emphasis on stresses associated with both mining activities and agricultural practices and processes of assisted recovery. Prerequisites: BIOL 3400 or PLNT 3400 (or the former BOTN 2020, BIOL 3450 or PLNT 3500) (C); and one of BIOL 2300, BIOL 2301 or AGE 2370 (or the former BOTN 2370 or BOTN 2371 or ZOO 2370 or ZOO 2371) (C); or consent of instructor.

BIOL 4460 Comparative Animal Energetics **Cr. Hrs. 3**

(Formerly ZOO 4830) Energetic strategies of animals living in ecologically diverse environments. Integration of physiological, morphological and behavioural adaptations with an emphasis on vertebrate species. Prerequisites: BIOL 2210 (ZOO 2320) (C) or BIOL 2231 (ZOO 2501) (C); and one of BIOL 2410 (ZOO 2530) (C), BIOL 2411 (ZOO 2531), BIOL 3470 (BIOL 3462, ZOO 3530) (C), or BIOL 3472 (BIOL 3460, ZOO 3540) (C); or consent of department.

BIOL 4470 Sensory-Motor Physiology **Cr. Hrs. 3**

(Formerly ZOO 4160) Information flow in the nervous system and the control of behaviour. The diverse roles that ion channels and synaptic circuitry play in sensory reception, neuronal integration and motor control are emphasized. Prerequisite: a "C" or better in BIOL 2410 and BIOL 2420 (the former ZOO 2530 and ZOO 2540) or BIOL 2411 and BIOL 2421 or BIOL 3470 and BIOL 3472 (the former BIOL 3460 and BIOL 3462) or consent of department. This course is restricted to students in year 3 or 4 of a Major or Honours degree program in Biological Sciences or in Chemistry (Biopharmaceutical Focus Area), or in the B.Sc. in Biosystems Engineering.

BIOL 4480 Comparative Endocrinology **Cr. Hrs. 3**

(Lab Required) (Formerly ZOO 4600) The structure, control, and function of vertebrate endocrine systems. BIOL 2520 (or equivalent - ZOO 2280, BIOL 2521, ZOO 2281), and one of BIOL 2410 (or equivalent - ZOO 2530, BIOL 2411, ZOO 2531), BIOL 3460 (ZOO 3530), and a course in biochemistry are strongly recommended as prerequisites. Prerequisite: one of BIOL 1030, BIOL 1031 (C).

BIOL 4500 Molecular Genetics of Plant Development **Cr. Hrs. 3**

(Formerly BOTN 4180) Analysis of plant development at the molecular level. Recent advances in model system genetics will be highlighted including seedling, root, shoot, and flower development as well as environmental responses. Prerequisite: BIOL 2500 (BOTN 2460) or BIOL 2501 (BOTN 2461) (C).

BIOL 4510 Evolutionary Genetics **Cr. Hrs. 3**

(Lab Required) Evolutionary genetic processes are the foundation upon which much of understanding of biology is built. This course uses lectures, discussions, and computer-based analyses of real data sets to introduce the core concepts of theoretical population genetics and the applications of these ideas for the study of evolution. May not be held with BIOL 4890 when the topic is "Evolutionary Genetics". Registration is restricted to students in the B.Sc. Honours or Major programs, including Co-op programs, in Biological Sciences and Genetics. Prerequisites: (one of BIOL 3300, BIOL 3301, the former BOTN 3000, the former ZOO 3000, the former ZOO 3001, or consent of department) and (one of MATH 1200, MATH 1210, MATH 1211, MATH 1220, MATH 1230, MATH 1240, MATH 1241, MATH 1300, MATH 1301, MATH 1310, MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1530, or MATH 1690).

BIOL 4540 Developmental Molecular Biology **Cr. Hrs. 3**

(Lab Required) An examination of early development with emphasis on the molecular events. Sex determination, gametogenesis and early embryogenesis will be discussed. May not be held with the former ZOO 4150. Prerequisite: BIOL 3542 or the former BIOL 2540 or the former ZOO 2150 (C); or consent of department.

BIOL 4542 Genes and Development **Cr. Hrs. 3**

(Formerly ZOO 4270) An in depth examination of selected topics in embryonic development, emphasizing the genetic control of the cell and molecular mechanisms that direct embryogenesis. The course emphasizes hypothesis testing and the evolution of development, including studies of both animal and plant development. Prerequisites: BIOL 2520 (or the former ZOO 2280) or BIOL 2521 (or the former ZOO 2281)(C); and BIOL 3542 (or the former BIOL 2540, ZOO 2150) (C); or consent of department.

BIOL 4544 Advanced Developmental and Cellular Biology **Cr. Hrs. 3**

(Lab Required) The course focuses on contemporary concepts and approaches in developmental biology, including theoretical and practical aspects. The emphasis is on the laboratory component. May not be held with the former BIOL 3540. Prerequisites: BIOL 2520 or BIOL 2521 and BIOL 3542 (C) or the former BIOL 2540; or consent of the department.

BIOL 4554 Molecular Biology Techniques for Eukaryotes - DNA **Cr. Hrs. 3**

(Lab Required) A techniques intensive course focusing on the understanding of molecular biology techniques, troubleshooting problems, writing reproducible laboratory experiments for publications, accurate recording of procedures in lab journals, and bioinformatics exercises from a DNA perspective. This course is designed for 4th year undergraduate and graduate students interested in understanding the theory and application of molecular methods specifically focusing on eukaryotic DNA. Students will learn essential and cutting-edge molecular biology techniques involved in gene structure, amplification, transformation, and sequencing among others. This course may not be held for credit with BIOL 4552. Prerequisite: BIOL 2520

BIOL 4556 Molecular Biology Techniques for Eukaryotes - RNA **Cr. Hrs. 3**

(Lab Required) This is a "hands-on" techniques course designed for the 3rd and 4th year undergraduate level. The purpose of this course is to train students in the current molecular biology techniques dealing with highly sensitive RNA molecules. The students will learn all essential steps involved to identify the messenger RNA expression of a particular target protein in plant or animal (invertebrates) systems. This course may not be held for credit with BIOL 4552. Prerequisite: BIOL 2520.

BIOL 4560 Microtechnique **Cr. Hrs. 3**

(Lab Required) This intensive course covers a spectrum of animal tissue and cell preparation techniques for microscopy and a survey of the variety of types of microscopy. These span all types of microscopy; live cell

techniques, fixation and tissue processing methods for both paraffin embedding media and plastic media, sectioning and staining imaging and image processing, introduction to histochemistry and immunocytochemistry and electron microscopy. This is a practical course with a major hands-on laboratory emphasis. Prerequisites: BIOL 1030 or BIOL 1031 (C+); or consent of department. This course is restricted to students in year 3 or 4 of a Major or Honours degree program.

BIOL 4650 Biology and Society **Cr. Hrs. 3**

(Lab Required) An exploration of the intersection of biology with society and the societal implications of research in areas such as genetics, biotechnology, ecology and evolution through lectures and tutorials. The course will examine how biological research is presented in the public sphere, and consider common public misunderstandings of the science. Students will examine some of the ethical issues that arise in the practice and application of biological sciences and develop skills in the communication and clarification of biological principles to the public. May not be held with BIOL 4890 when titled "Biology and Society". Prerequisites: One of BIOL 2500, BIOL 2501, PLNT 2520, the former BOTN 2460 or the former BOTN 2461 (C+), or permission of instructor. Students must be enrolled in third year (or higher) of a major or honours program in Biological Sciences, Biotechnology or Genetics.

BIOL 4800 Special Topics in Field Biology **Cr. Hrs. 3**

(Formerly BOTN 4800, ZOO 4800) Lectures, field studies and research projects on a selected topic. Course content to vary from year to year depending on instructor. Usually offered during the summer months. Prerequisite: consent of department.

BIOL 4890 Special Topics in Biology **Cr. Hrs. 3**

(Formerly BOTN 4890, ZOO 4890) Biology encompasses a broad array of ideas and special topic areas. In this course, students can pursue a specific topic in detail through lectures, seminars and research projects. Normally restricted to third and fourth year Honours and Major students. Prerequisite: Consent of department.

BIOL 4980 Work Term 3 **Cr. Hrs. 0**

(Formerly BOTN 4980, ZOO 4980) Work assignment in business, industry, or government for students registered in the Biological Sciences Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only)

BIOL 4990 Work Term 4 **Cr. Hrs. 0**

(Formerly BOTN 4990, ZOO 4990) Work assignment in business, industry, or government for students registered in the Biological Sciences Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only)

4.4 Biotechnology

Campus Address/General Office: 418 Buller Building / 360 Parker Building
Telephone: 204 474 9372 / 204 474 9321

Email Address: Deborah.Court@umanitoba.ca

Chemistry_Dept@umanitoba.ca

Website: <http://umanitoba.ca/faculties/science/departments/microbiology/>
<http://umanitoba.ca/chemistry>

4.4.1 Program Information

NOTE: As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.

Biotechnology Honours Degree Requirements

To enter the Biotechnology Joint Honours program a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in CHEM 1310 and a minimum grade of "C+" in BIOL 1020. CHEM 1300, BIOL 1030, MATH 15001, PHYS 1020 (or PHYS 1050), and STAT 1000 are required courses in the program and students are strongly encouraged to complete these courses in first year. Six credit hours of Arts electives, including the written English course should also be taken in Year 1.

Students will select one stream (Analytical or Molecular Biotechnology). Students are also encouraged to select a Minor in a complementary area. There are enough free electives to cover the 18 credit hours required for a Minor. All students must complete a Common Core of required courses plus required Stream Specific courses. The remaining courses can be selected from the list of Recommended Electives. This list is meant to give students some idea of appropriate electives; however, students have the option to choose courses not on the list in consultation with the Program Advisors.

To continue in the Biotechnology Joint Honours program, students must maintain a minimum DGPA of 3.00 and complete a minimum of 9 credit hours during each Fall and Winter Term. No more than 15 credit hours of F grades may be accumulated, regardless of whether any course has been repeated and a higher grade achieved. Research Project in Biotechnology ([BTEC 4000](#)) must be taken in the final year of the program.

To graduate from the Biotechnology Joint Honours program students must achieve a minimum DGPA of 3.00 and obtain minimum grade of "C" on the courses that contribute to the 120 credit hours that make up the degree.

Students who do not meet these minimum requirements will be required to withdraw from the program and may be eligible to enter the 4-Year Major degree program in Biotechnology. Depending on course selection students may also be eligible to enter other Major Programs (e.g. Biochemistry, Biological Sciences, Chemistry, or Microbiology) and/or the 3-year B.Sc. General Degree program.

Biotechnology Honours Cooperative Option

Students interested in alternating academic terms and terms of paid employment as part of their Honours Biotechnology program may enter the Cooperative Option in April of their second year in Honours Biotechnology. This program provides students with a minimum of 12 months of paid employment by the time they graduate. It enables them to obtain work experience in research and industry with participating firms, government agencies and university units.

The course and grade requirements **for entry** to this option are the same as those required for entry to the regular Honours program, as indicated in the chart. Students are required to complete the first and second year requirements of the program; and MBIO 3410 before they begin their first employment term. Students should refer to the general faculty regulations for B.Sc. (Honours) Cooperative Options in Section 3.6.

To continue in the Honours Cooperative program a student must maintain a minimum DGPA of 3.00, successfully complete each work term, and complete a minimum of 9 credit hours during each academic term. Students should note that the grade requirements for the Cooperative Option are the same as that for the regular Honours program (see above).

Students must check with the Co-op office for the April application deadline information. They will normally be notified of their provisional acceptance in the program by September. Acceptance into the program is

dependent upon the student receiving an employment placement. Employment term positions available to the students will be approved by the department, and the employers will select the students they wish to employ. Students are advised that satisfying the entrance requirements does not guarantee a place in the Cooperative Option if the demand for places exceeds the number of places available. The department reserves the right to determine and select the best qualified applicants.

Students are required to register in and pay fees for each employment term prior to the commencement of each employment term. Students will be required to submit an employment report upon the completion of each employment term.

Biotechnology 4-Year Major Degree Requirements

To enter the Biotechnology Joint Major program a student must have completed at least 24 credit hours with a minimum DGPA of 2.00 and also obtained a minimum grade of "C+" in CHEM 1310 and a minimum grade of "C" in BIOL 1020. BIOL 1030, CHEM 1300, MATH 15001, PHYS 1020 or 1050, and STAT 1000 are required courses in the program and students are strongly urged to complete these courses in first year. Six credit hours of Arts electives, including the written English course should also be taken in Year 1.

Students will select one stream (Analytical or Molecular Biotechnology). Students are also encouraged to select a Minor in a complementary area. There are enough free electives to cover the 18 credit hours required for a Minor. All students must complete a Common Core of required courses plus required Stream Specific courses. The remaining courses can be selected from the list of Recommended Electives. This list is meant to give students some idea of appropriate electives; however, students have the option to choose courses not on the list in consultation with the Program Advisors.

To continue in the Major program a student must maintain a minimum DGPA of 2.00. No more than 18 credit hours of F grades can be accumulated regardless of whether any course has been repeated and a higher grade achieved.

To graduate from the Biotechnology Joint Major degree, students must maintain a minimum DGPA of 2.00. Students must also obtain a minimum grade of "C" on all common core and stream specific courses outlined below. There is no term registration load requirement in the Major degree.

Students who do not meet these minimum requirements will be required to withdraw from the program and will normally be eligible to enter the 3-Year B.Sc. General degree program.

Biotechnology 4 Year Major Cooperative Option

Students interested in alternating academic terms and terms of paid employment as part of their Major program in Biotechnology may enter the Cooperative Option in April of their second year in Biotechnology. This program provides students with a minimum of 12 months of paid employment by the time they graduate. It enables them to obtain work experience in research and industry with participating firms, government agencies and university units.

The course and grade requirements **for entry** to this option are the same as those required for entry to the regular Major program. MBIO 3410 is required in Year 3. Students are required to complete the first and second year requirements of the program and MBIO 3410 before they begin their first employment term. Students should refer to the general faculty regulations for B.Sc. (Major) Cooperative Options in Section 3.4.

Students must check with the Co-op office for the April application deadline information. They will normally be notified of their provisional acceptance in the program by September. Acceptance into the program is dependent upon the student receiving an employment placement.

Employment term positions available to the students will be approved by the department, and the employers will select the students they wish to employ. Students are advised that satisfying the entrance requirements does not guarantee a place in the Cooperative Option if the demand for places exceeds the number of places available. The department reserves the right to determine and select the best qualified applicants.

Students are required to register in and pay fees for each employment term prior to the commencement of each employment term. Students will be required to submit an employment report upon the completion of each employment term.

Common Core Courses:

BIOL 2500, BIOL 2520, CHEM 2210, CHEM 2220, CHEM/MBIO 2360, CHEM /MBIO 2370, CHEM 2470, CHEM 3590, CHEM 4630, MBIO 1010, MBIO 2020, MBIO 3000, MBIO 3030, MBIO 3410, MBIO 4520

Optional Courses:

Appropriate prerequisites must be taken for all Optional courses.

BIOL 2500, BIOL 2520, CHEM 2210, CHEM 2220, CHEM/MBIO 2360, CHEM /MBIO 2370, CHEM 2470, CHEM 3590, CHEM 4630, MBIO 1010, MBIO 2020, MBIO 3000, MBIO 3030, MBIO 3410, MBIO 4520

Program Stream Courses:

Analytical Biotechnology: MATH 17001, CHEM 4370, CHEM 4590, CHEM 4670, CHEM 4700

Molecular Biotechnology: MATH 17001, CHEM 4370, CHEM 4590, CHEM 4670, CHEM 4700

Note: In some instances pre-requisites will be waived upon approval by the appropriate department.

Complementary Existing Minors that could satisfy the Recommended Electives (Minors require 18 cr hrs of prescribed courses):

Management, Animal Systems, Food Science, Plant Biotechnology, or Human Nutrition and Metabolism

Recommended General Electives if not required in Program stream:

All courses in above described Minors.

Appropriate pre-requisites must also be taken for all Electives.

BIOE 3200, BIOE 3530, BIOE 4510, BIOL 1300 (BOTN 1010), BIOL 2242 (BOTN 2010), BIOL 2380 (BOTN/ZOOL 2180), BIOL 2260 (BOTN 2210), BIOL 2300 (BOTN/ZOOL 2370), BIOL 3550 (BOTN 3190), BIOL 3290 (BOTN 3280), BIOL 3500 (BOTN 3460), BIOL 4500 (BOTN 4180), BIOL 3542 (BIOL 2540), BIOL 4540 (ZOOL 4150), BIOL 4544 (BIOL 3540); CHEM 4360, CHEM 4370, CHEM 4590, CHEM 4620, CHEM 4670, CHEM 4700; COMP 1010, COMP 1020, COMP 1260, COMP 1270; ENG 1420; ENTR 2020; MATH 17001; MBIO 3280 (MBIO 2280), MBIO 3010, MBIO 3430, MBIO 4440 (MBIO 3440), MBIO 3450, MBIO 3460, MBIO 3470, MBIO 4480 (MBIO 3480), MBIO 4010, MBIO 4410, MBIO

4470, MBIO 4600, MBIO 4610, MBIO 4672; PHAC 4030, PHAC 4040; PHIL 2740, PHIL 2830; PLNT 3140, PLNT 3500, PLNT 3520, PLNT 3570, PLNT 4310, PLNT 4330, PLNT 4550, PLNT 4560, PLNT 4570, PLNT 4580, PLNT 4590, PLNT 4600; STAT 2000

Other suitable courses may be selected through consultation with the department heads.

4.4.2 Biotechnology Programs (incl. Co-operative Option if selected)

NOTE: As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.

| 4.4.2 Biotechnology Programs (incl. Co-operative Option if selected) - Offered Jointly by the Departments of Chemistry and Microbiology | | | |
|--|--|---|--|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| JOINT HONOURS (incl. Co-operative Option if selected) 120 CREDIT HOURS | | | |
| BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 PHYS 1020 (or PHYS 1050) MATH 1500 ¹ STAT 1000 | CHEM 2210, CHEM 2220, CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370), CHEM 2470 MBIO 1010, MBIO 2020 BIOL 2500, BIOL 2520 | CHEM 3590 MBIO 3000, MBIO 3030, MBIO 3410 | CHEM 4630 MBIO 4520 BTEC 4000 (6) ⁴ |
| The requirements listed below can be completed in Year 1 or Year 2: 6 credit hours from the Faculty of Arts including the required "W" course 6 credit hours of Required Program Stream ² courses or electives ³ | | The requirements listed below can be completed in 3rd or 4th year: 9 credit hours of Optional Courses ² 27 credit hours of Required Program Stream courses ² and electives ³ . | |
| | | Work Terms (if Co-op Selected): BTEC 3980, BTEC 3990 | Work Terms (if Co-op Selected): BTEC 4980 and/or BTEC 4990 |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| JOINT FOUR-YEAR MAJOR (incl. Co-operative Option if selected) 120 CREDIT HOURS | | | |

| | | | |
|---|--|---|---|
| BIOL 1020, BIOL 1030 | CHEM 2210, CHEM 2220, CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370), CHEM 2470 | CHEM 3590 | CHEM 4630 |
| CHEM 1300, CHEM 1310 | | MBIO 3000, MBIO 3030, MBIO 3410 | MBIO 4520 |
| PHYS 1020 (or PHYS 1050) | | | |
| MATH 1500 ¹ | MBIO 1010, MBIO 2020 | | |
| STAT 1000 | BIOL 2500, BIOL 2520 | | |
| The requirements listed below can be completed in Year 1 or Year 2: 6 credit hours from the Faculty of Arts including the required "W" course 6 credit hours of Required Program Stream courses ² and/or approved electives ³ | | The requirements listed below can be completed during 3rd and 4th year: 9 credit hours of Optional Courses ² 33 credit hours of Required Program Stream Courses ² and approved electives ³ | |
| | | Work Terms (if Co-op Selected): BTEC 3980, BTEC 3990 | Work Terms (if Co-op Selected): BTEC 4980 and/or BTEC 4990 |
| <p>NOTES:</p> <p>¹ MATH 1230, MATH 1510 or MATH 1520 may be used in place of MATH 1500; MATH 1232 or MATH 1710 may be used in place of MATH 1700.</p> <p>² Optional courses and program stream courses requirements can be found above the Biotechnology program charts in section 4.4.1.</p> <p>³ Refer to list of recommended elective courses and complementary Minor programs (listed above charts) prior to registration in your electives.</p> <p>⁴ BTEC 4000 is required for students in the Honours program only. Students in the Honours Co-operative program will require 6 credit hours of approved electives.</p> <p>⁵ Choice of BIOL 4554 or BIOL 4556 not already chosen for stream. (The number 6 in brackets indicates a 6 credit hour course.)</p> | | | |

4.4.3 Biotechnology Course Descriptions

BTEC 3980 Work Term 1 **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Biotechnology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

BTEC 3990 Work Term 2 **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Biotechnology Honours or Major Cooperative program.

Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

BTEC 4000 Research Project in Biotechnology **Cr. Hrs. 6**

(Lab Required) Students can carry out independent biotechnology based research in their area of interest under the supervision of a faculty member or an approved external biotechnology professional. Results will be presented as an interim oral report and a written journal style paper. Registration restricted to Year 4 Honours Biotechnology students. Not to be held with any other Research Project courses such as MBIO 4530 or CHEM 4710.

BTEC 4980 Work Term 3 **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Biotechnology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

BTEC 4990 Work Term 4 **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Biotechnology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.5 Department of Chemistry

Head: Viktor Nemykin
Campus Address/General Office: 360 Parker Building
Telephone: (204) 474 9321
Fax: (204) 474 7608
Email Address: Chemistry_Dept@umanitoba.ca
Website: <http://umanitoba.ca/chemistry>

4.5.1 Department of Chemistry Program Information

Chemistry is the science concerned with the properties of atoms and molecules, of which all matter is composed. Chemistry is important for all aspects of the material world - food production; the manufacture of medicines, textiles, and plastics; energy production; identifying environmental problems and remedies; and understanding the workings of living organisms. The department offers study in analytical, inorganic, organic and physical chemistry, and in biochemistry.

Chemistry Club: The Chemistry Club is the University of Manitoba Student Chapter of the Chemical Institute of Canada. The aim of the organization is to advance interest in chemistry. All students engaged in chemical studies are eligible for membership in the chapter and are encouraged to apply. Regular meetings, tours, publications, etc., are planned by each year's membership.

Scholarships and Awards: Several scholarships and awards are granted each year to Honours and Major students in Chemistry, Biochemistry, and Biotechnology on the basis of outstanding academic performance. To be eligible for these awards for any regular session, students are normally required to have completed a full program with a minimum of 18 credit hours of Chemistry in that session. They must also be registered for a full program with a minimum of 18 credit hours of Chemistry in the next regular session. Additional information is available from the Chemistry general office.

The department must approve a student's Honour or Major program each session. Students must also obtain departmental approval for any and all revisions to their program.

Honours Requirements

To enter the Honours program in Chemistry, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in CHEM 1310. CHEM 1300, MATH 1500, MATH 1700, PHYS 1020 (PHYS 1050), and PHYS 1070 are required courses in this program and students are strongly encouraged to complete these courses in first year.

To continue in the Chemistry Honours program, students must maintain a minimum DGPA of 3.00 and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate from the Chemistry Honours program students must achieve a minimum DGPA of 3.00 and obtain a minimum grade of "C" on the courses that make up the 120 credit hours of the degree.

Four Year Major Requirements

To enter the Chemistry Major program a student must have completed at least 24 credit hours with a minimum DGPA of 2.00 and also obtained a minimum grade of "C+" in CHEM 1310. CHEM 1300, MATH 1500, MATH 1700, PHYS 1020 (PHYS 1050), and PHYS 1070 are required courses in this program and students are strongly encouraged to complete these courses in first year.

To continue in the Major program, a student must have a DGPA of 2.00 at each point of assessment.

To graduate with the Bachelor of Science (Major) in Chemistry, a student must obtain a minimum DGPA of 2.00, and a minimum grade of "C" or better in all required Chemistry and Focus Area courses.

Students who, at the end of Year 1, are undecided between the four year Major and Honours programs should note that the prescription for Honours Year 2 satisfies both the Honours and Major program requirements.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students are required to complete 24 credit hours of Chemistry (including CHEM 2470 and either CHEM 2260 (the former CHEM 2280) or CHEM 2290) before beginning their first co-op work term.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students are required to complete 24 credit hours of Chemistry (including CHEM 2470 and either CHEM 2260 (the former CHEM 2280) or CHEM 2290) before beginning their first co-op work term.

Chemistry Program Focus Areas

Students may elect to take courses that, in combination, make up a Chemistry focus area. Currently, there are nine Chemistry focus areas. They

are: Bioanalytical, Biopharmaceutical, Biophysical, Environmental, Inorganic, Materials Science, Organic, Physical, and Quantum/Computational. Each focus area has specific course requirements that students will satisfy in order to graduate and receive the focus area notation on their transcripts. Other focus areas may be selected with approval from the Department Head.

Required Courses for each Chemistry Focus Area (Note: Students are responsible for completing all prerequisite courses required for the completion of a specific Focus Area). The below course listings are not meant to be limiting. Plausible substitutions will be reviewed and approved by the Department of Chemistry on an individual basis.

Bioanalytical: 18 credit hours chosen from: CHEM 2550, CHEM 2370, CHEM 3260, CHEM 3570, CHEM 4550, CHEM 4590, CHEM 4630; plus a minimum of 9 credit hours from: BGEN 3020 (6), MBIO 2020, MBIO 3410, PHYS 2600, PHYS 2610, PHYS 2260, STAT 2000.

Biopharmaceutical: Each of: CHEM 3390, CHEM 3580, CHEM 4580, CHEM 4590, CHEM 4670, CHEM 4690; plus 9 credit hours chosen from: BIOL 2380, BIOL 2410, BIOL 2420, BIOL 2520, BIOL 3290, BIOL 4470.

Biophysical: 18 credit hours chosen from: CHEM 2370, CHEM 3360, CHEM 3370, CHEM 3490, CHEM 3570, CHEM 4590, CHEM 4620, CHEM 4630, CHEM 4640, CHEM 4700; plus 9 credit hours chosen from: BIOL 2500, BIOL 2520, MBIO 1410 or MBIO 3410, MBIO 3460, MBIO 4540.

Environmental: Each of: CHEM 2370, CHEM 2550, CHEM 4550, CHEM 4590, and 6 credit hours of 3000 or 4000 level Chemistry courses; plus at least 9 credit hours chosen from: ENVR 1000, ENVR 2000, ENVR 2180 (BIOL 2380), ENVR 3180, BIOL 4380.

Inorganic: 18 credit hours chosen from: CHEM 3390, CHEM 4680, CHEM 4570 (Topics in Inorganic Chemistry: Catalysis and Small Molecule Activation), CHEM 4570 (Topics in Inorganic Chemistry: Bioinorganic Chemistry), CHEM 4570 (Topics in Inorganic Chemistry: Inorganic Materials), CHEM 4802 (Topics in Analytical Chemistry: Materials Characterization), CHEM 3360; plus 9 credit hours from CHEM 3260, CHEM 3580, CHEM 4690, CHEM 3370, CHEM 3490, PHYS 2210 or PHYS 2600. (Note: The Inorganic Chemistry Focus Area does not include 9 hours of non-Chemistry courses.)

Materials Science: Each of: CHEM 3360, CHEM 3370, CHEM 3490, CHEM 4570, CHEM 4590, CHEM 4680; plus 9 credit hours from: BIOE 3320, ECE 3600, PHYS 2600, PHYS 2610. (MATH 1300 is highly recommended but does not count toward the 9 credit hour of non-Chemistry requirements.)

Organic: 27 credit hours from: CHEM 3260, CHEM 3390, CHEM 3580, CHEM 4580, CHEM 4590, CHEM 4620, CHEM 4630, CHEM 4670, CHEM 4680, CHEM 4690. (Note: There are no non-Chemistry courses in the Organic Chemistry Focus Area)

Physical: 18 credit hours from: CHEM 3260, CHEM 3360, CHEM 3370, CHEM 3490, CHEM 3570, CHEM 3580, CHEM 4100, CHEM 4800 (Topics in Physical/Theoretical Chemistry); plus 9 credit hours from: MATH 2090, PHYS 2260, PHYS 2390, PHYS 2490 or PHYS 2496, PHYS 2600, PHYS 2610, the former PHYS 3680 or PHYS 4680. (MATH 1220 or MATH 1300 are highly recommended but will not count toward the 9 credit hours of non-Chemistry requirements.)

Quantum/Computational: Each of: CHEM 3260, CHEM 3360, CHEM 3370, CHEM 3580, CHEM 4640, CHEM 4670; plus 9 credit hours from: COMP 2160, COMP 2190, MATH 2090, MATH 2160, the former PHYS 2380 or PHYS 2386, PHYS 4250, PHYS 4520.

Three Year Requirements

Courses taken as part of a three-year degree program provide an introduction to the major fields of study in Chemistry. Students will have two options for a three year Degree under the Department of Chemistry.

Option A – Three Year General: As prescribed with all other faculty regulations in Section 3.2, students in this program must select 18 credit hours of 2000, 3000, and (or) 4000 level courses from each of two Science areas. To satisfy the requirement in the area of Chemistry, students must select a minimum of 18 credit hours from the following list of advanced level courses: CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2360, CHEM 2370, CHEM 2400 (CHEM 2380), CHEM 2470, CHEM 3260 (CHEM 4660), CHEM 3360, CHEM 3370, CHEM 3390, CHEM 3400 (CHEM 3380), CHEM 3570, CHEM 3580, CHEM 3590, CHEM 4100, CHEM 4360, CHEM 4370, CHEM 4570, CHEM 4580, CHEM 4590, CHEM 4620, CHEM 4630, CHEM 4640, CHEM 4660, CHEM 4670, CHEM 4680, CHEM 4690 (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level).

Courses not allowed for use as advanced level courses in the 3-Year General Degree are: CHEM 2240, CHEM 2550, CHEM 2560, CHEM 2770, CHEM 2780, CHEM 2860, CHEM 4550, the former CHEM 4600, CHEM 4610 (6), CHEM 4650, CHEM 4700, and CHEM 4710.

Option B - Three Year B.Sc. – Chemistry Focus: Students that choose this path for their three-year degree program will follow the program chart below. The 24 credit hours of introductory courses and 36 credit hours of advanced level requirements have been prescribed in such a way so that students that follow the chart can seamlessly transfer to a 4-year Chemistry Honours or Major degree program should they choose to do so after the completion of the 90 credit hours listed in the chart.

Students anticipating a transfer to either the four year Major or Honours program at the end of their second or third year should consult with the Departmental Program Advisor before registering.

Laboratory Exemption Regulations

- valid for two calendar years only
- lab exemption given only one time per course
- laboratory marks are carried forward to the next course attempt
- students are responsible for laboratory questions on tests and examinations
- students must earn a minimum of 60% on the laboratory to be eligible for an exemption.

Biochemistry and Biotechnology* Programs

The Department of Chemistry, in conjunction with the Department of Microbiology, offers Joint Honours programs, Joint Honours Cooperative Options, Joint four year Major programs and a Joint four year Major Cooperative Options in Biochemistry and Biotechnology.* See sections 4.2 Biochemistry Program and 4.4 Biotechnology Program* for full details.

*As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.

4.5.2 Chemistry Honours Degree Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--------|--------|--------|
| HONOURS ³ (incl. Co-operative Option if selected) 120 CREDIT HOURS | | | |

| | | | |
|---|---|---|---|
| CHEM 1300, CHEM 1310 (B) PHYS 1050 (or PHYS 1020), PHYS 1070 MATH 1500 ¹ , MATH 1700 ¹ | CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2400, CHEM 2470, CHEM 2860 (CHEM 2360) | CHEM 3400, CHEM 3590 | CHEM 4610 (6), CHEM 4710 (6) |
| In Year 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts, which should include the required "W" course 3 credit hours from Mathematics, Statistics or Computer Science courses ² 12 credit hours of approved electives in years one and two | | Sufficient credit hours (18) from the 2000, 3000 and 4000 level Chemistry ³ courses not yet taken to total a minimum of 63 credit hours of Chemistry courses at the 1000-4000 level. These credit hours may make up part of a focus area. 9 credit hours of non-Chemistry ⁵ courses which are part of a designated focus area ³ . If no Focus Area is selected, students must choose 9 credit hours of Chemistry courses. 15 credit hours of approved electives in years three and four ⁴ | |
| | | Work Terms (if Co-op selected): <u>CHEM 3980.</u> <u>CHEM 3990</u> | Work Terms (if Co-op selected): <u>CHEM 4980</u> <u>and/or CHEM 4990</u> |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ MATH 1230, MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

² MATH 1010, MATH 1020, the former MATH 1190, MATH 1191, COMP 1500, COMP 1600, the former COMP 1260 and the former COMP 1270, may not be used to satisfy this requirement.

³ Students may elect to complete the requirements set out in one of the Chemistry focus areas. If a student opts for one of the focus areas, they should consult with the Department of Chemistry and a Science Academic Advisor for information regarding specific course requirements for each focus area.

⁴ Elective courses should be selected in consultation with the Department of Chemistry and/or a Faculty of Science Academic Advisor.

⁵ Not all Focus Areas include non-Chemistry courses. Some Focus Areas are all Chemistry courses. Refer to the description of each Focus Area for more information.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

4.5.3 Chemistry Major Degree Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--|
| FOURYEAR MAJOR ^{3,4} (incl. Co-operative Option if selected) 120 CREDIT HOURS (comprising courses listed in chart below, and electives ⁵) | | | |
| CHEM 1300, CHEM 1310 (C+) PHYS 1050 (or PHYS 1020 (C+)), PHYS 1070 MATH 1500 ¹ , MATH 1700 ¹ | CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2400, CHEM 2470, CHEM 2860 (CHEM 2360) | CHEM 3400, CHEM 3590 | CHEM 4610 (6) |
| In Year 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts, which should include the required "W" course. 3 credit hours from Mathematics, Statistics or Computer Science courses ² | | Sufficient credit hours (18) from the 2000, 3000 and 4000 level Chemistry ³ courses not yet taken to total a minimum of 57 credit hours of Chemistry courses at the 1000-4000 level. These credit hours may make up part of a focus area. 9 credit hours of non-Chemistry courses ⁶ which are part of a designated focus area ³ . (Note: If no Focus Area is selected, students must choose 9 credit hours of Chemistry courses.) | |
| | | Work Terms (if Co-op selected): | Work Terms (if Co-op selected): |
| | | CHEM 3980, CHEM 3990 | CHEM 4980 and/or CHEM 4990 |

NOTES:

1.MATH 1230, MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

2 MATH 1010, MATH 1020, the former MATH 1190, MATH 1191, COMP 1500, COMP 1600, the former COMP 1260 and the former COMP 1270 may not be used to satisfy this requirement.

3 Students may elect to complete the requirements set out in one of the Chemistry focus areas. If a student opts for one of the focus areas, they should consult with the Department of Chemistry and a Science Academic

Advisor for information regarding specific course requirements for each focus area.

4 IMPORTANT: The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

5 Elective courses should be selected in consultation with the Department of Chemistry and/or a Faculty of Science Academic Advisor.

6 Not all Focus Areas include non-Chemistry courses. Some Focus Areas are all Chemistry courses. Refer to the description of each Focus Area for more information.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

4.5.4 Chemistry General Degree and Minor Requirements

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--------|--------|
| THREE YEAR GENERAL – Chemistry Focus 90 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 (C+) BIOL 1020, BIOL 1030 MATH 1500 ¹ , MATH 1700 ¹ PHYS 1050 ² , PHYS 1070 ² 6 credit hours from the Faculty of Arts. (Should include the student's "W" requirement.) | 21 hours of required 2000 level Chemistry courses: CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2400 (CHEM 2380), CHEM 2470, CHEM 2360 15 credit hours of 2000 level or higher CHEM: Excluding the Chemistry service courses (CHEM 2240, CHEM 2560, CHEM 2770, CHEM 2780), Co-op courses (CHEM 3980, CHEM 3990, CHEM 4980, CHEM 4990) and specialized courses (CHEM 4610, CHEM 4700, CHEM 4710). A minimum of 6 credit hours must be chosen from the 3000 / 4000 level. 6 credit hours of electives to be chosen from outside the Faculty of Science 18 credit hours of open electives | | |
| THREE YEAR GENERAL 90 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 (C) | a minimum of 18 credit hours from the following list of advanced level courses: CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2360, CHEM 2370, CHEM 2400 (CHEM 2380), CHEM 2470, CHEM 3260 (CHEM 4660), CHEM 3360, CHEM 3370, CHEM 3400 (CHEM 3380), CHEM 3390, CHEM 3570, CHEM 3580, CHEM 3590, CHEM 4100, CHEM 4360, CHEM 4370, CHEM 4570, CHEM 4580, CHEM 4590, CHEM 4620, CHEM 4630, CHEM 4640, CHEM 4670, CHEM 4680, CHEM 4690 (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level). | | |

| | |
|--------------------------|--|
| MINOR | |
| CHEM 1300, CHEM 1310 (C) | Normally CHEM 2210 and CHEM 2220, plus an additional 6 credit hours of Chemistry |

NOTES:

1 MATH 1230 or MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

2 PHYS 1020 may be used in place of PHYS 1050; and, in the 3-year degree only - PHYS 1030 may be used in place of PHYS 1070. Students planning on completing a 4-year degree in Chemistry are required to complete PHYS 1070.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

4.5.5 Chemistry - Physics Joint Honours Program

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--|
| JOINT HONOURS ² 120 CREDIT HOURS | | | |
| <p><u>CHEM 1300 (B), CHEM 1310 (B)</u></p> <p><u>PHYS 1050 (B) (or PHYS 1020 (B+)²), PHYS 1070 (B) (or PHYS 1030 (B+))</u></p> <p><u>MATH 1300, MATH 1500¹ (B), MATH 1700¹ (B)</u></p> <p><u>6 credit hours from the Faculty of Arts, which should include the required "W" course</u></p> <p><u>3 credit hours of electives</u></p> | <p><u>CHEM 2210, CHEM 2220, CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2400 or CHEM 2470 MATH 2720</u></p> <p><u>PHYS 2386, PHYS 2496, PHYS 2600, PHYS 2650</u></p> | <p><u>12 credit hours from whichever of CHEM 2400 or CHEM 2470 not taken and any of CHEM 2860 (CHEM 2360 /MBIO 2360), CHEM 2370 (MBIO 2370) or 3000/4000 level Chemistry courses</u></p> <p><u>PHYS 2260 or PHYS 2610, PHYS 3386, PHYS 3630, PHYS 3670, PHYS 3496</u></p> <p><u>3 credit hours of electives</u></p> | <p><u>CHEM 4610 (6)</u></p> <p><u>CHEM 4710 (6) or both PHYS 4676³ and PHYS 4678</u></p> <p><u>PHYS 4386, PHYS 4680</u></p> <p><u>3 credit hours of 3000/4000 level Physics courses</u></p> <p><u>3 credit hours of 3000/4000 level Chemistry courses</u></p> <p><u>6 credit hours of electives</u></p> |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 MATH 1220 may be taken in place of MATH 1300; MATH 1230 or MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

2 Students are advised to take PHYS 1050 and PHYS 1070.

3 The prerequisite of PHYS 3430 is waived for students in this program.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

4.5.6 Chemistry Course Descriptions-0 Level**CHEM 0900 Preparatory Chemistry Cr. Hrs. 0**

A course designed for students with little, or no background in chemistry who wish to achieve the prerequisites for advanced courses, or for students who require a refresher course in basic chemistry. Concurrent registration in CHEM 0900 and any of CHEM 1300, CHEM 1301, CHEM 1311 or CHEM 1320 is not permitted. (Pass/Fail grade only.) Prerequisite or Concurrent Requirement: Any grade 12 or 40S Mathematics course or equivalent.

4.5.6 Chemistry Course Descriptions-1000 Level**CHEM 1000 Understanding the World through Chemistry Cr. Hrs. 3**

This course introduces students to the principles of chemistry necessary for an understanding of contemporary issues in agriculture, the environment, industry, medicine, and the economy. High school chemistry is not required. May be used as a prerequisite (minimum grade "B") for CHEM 1300 or CHEM 1301 (Developmental section). Not to be held with CHEM 1001. May not be used to fulfill chemistry requirements in a Chemistry Honours, Major, General or Minor program. Not available to students who have previously obtained credit in, or are concurrently registered in, any 2000 level university Chemistry course.

CHEM 1030 Carbon Chemistry in Nature and Society Cr. Hrs. 3

This course introduces organic molecules and illustrates the principles of organic chemistry with topics from cosmetics and personal care products, the petroleum industry, food preparation chemistry, polymers and plastics, poisons and biological toxins, and risk assessment. May not be used to fulfill chemistry requirements in a Chemistry Honours, Major, General or Minor program. Not available to students who have previously obtained credit in, or are concurrently registered in, any 2000 level university Chemistry course. Not to be held with CHEM 1031. Prerequisite: One of CHEM 1000, CHEM 1001 (C), CHEM 1300, CHEM 1301 (C), Chemistry 40S (or equivalent), or CHEM 0900.

CHEM 1300 University 1 Chemistry: Structure and Modelling in Chemistry Cr. Hrs. 3

(Lab Required) Atomic and molecular models and their applications to chemistry, including a discussion of solid, liquid, and gaseous states, and of mixtures. Not to be held with CHEM 1301. Prerequisites: (one of Chemistry 40S, CHEM 0900 (P), CSKL 0100 (P) offered by Extended Education, a grade of "B" or better in CHEM 1000 or the former CHEM 1001, or equivalent) and (one of Applied Mathematics 40S, Pre-calculus Mathematics 40S, the former Mathematics 40S (300), a grade of "C" or better in MSKL 0100 offered by Extended Education, or equivalent).

CHEM 1310 University 1 Chemistry: An Introduction to Physical Chemistry Cr. Hrs. 3

(Lab Required) Thermochemistry, chemical thermodynamics, and chemical kinetics. Prerequisite: CHEM 1300 or CHEM 1301 (C).

CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry Cr. Hrs. 3

(Lab Required) Structures, properties and reactions of organic molecules. Not to be held with CHEM 2210 or CHEM 2211. Prerequisite: CHEM 1300 or CHEM 1301 (C).

4.5.6 Chemistry Course Descriptions-2000 Level**CHEM 2210 Introductory Organic Chemistry 1: Structure and Function Cr. Hrs. 3**

(Lab Required) An introduction to the concepts of organic reactivity and bonding in organic molecules. Preparation and properties of functionalized organic molecules. Not to be held with CHEM 1320 or CHEM 2211. Prerequisite: CHEM 1310 or CHEM 1311 (C).

CHEM 2220 Introductory Organic Chemistry 2: Reactivity and Synthesis **Cr. Hrs. 3**

(Lab Required) An introduction to the reactivity of organic compounds and organic spectroscopy. The application of functional group interconversions to syntheses. Not to be held with CHEM 2221. Prerequisite: CHEM 2210 or CHEM 2211 (C).

CHEM 2240 Applied Chemistry for Engineers **Cr. Hrs. 3**

Bonding, surface chemistry, phase rule, electrochemistry, materials and descriptive inorganic chemistry of selected elements. Prerequisite: CHEM 1300 or CHEM 1301 (C).

CHEM 2260 Introduction to Spectroscopy **Cr. Hrs. 3**

(Lab required) An exploration of the underlying principles of atomic and molecular spectroscopy and the application of such tools to probe chemical and physical properties of matter on a microscopic scale. Aspects of ultraviolet, visible, vibrational, rotational and nuclear magnetic resonance spectroscopies are explored. Not to be held with the former CHEM 2280 or CHEM 2281. Prerequisites: CHEM 1310 or CHEM 1311 (C); PHYS 1030 or PHYS 1031 (C) or PHYS 1070 or PHYS 1071 (C); plus six credit hours of 1000 level mathematics (preferably calculus) with the exception of MATH 1010, the former MATH 1190, MATH 1191, FA 1020, or MATH 1020.

CHEM 2290 Chemical Energetics and Dynamics: Macroscopic Descriptions **Cr. Hrs. 3**

(Lab Required) Chemical energetics, entropy and the second law of thermodynamics, chemical dynamics. May not be held with CHEM 2291. Prerequisites: CHEM 1310 or CHEM 1311 (C); PHYS 1030 or PHYS 1031 (C) or PHYS 1070 or PHYS 1071 (C); plus six credit hours of 1000 level mathematics (preferably calculus) with the exception of MATH 1010, MATH 1190, MATH 1191, MATH 1020, or FA 1020.

CHEM 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy **Cr. Hrs. 3**

(Lab Required) An introductory course dealing with kinds of molecules encountered in biochemistry, and the concept of metabolic energy as a product of catabolism and a requirement for biosynthesis. This course is also given in Microbiology as MBI0 2360. May not be held with CHEM 2361, CHEM 2770, MBI0 2360, MBI0 2361, or MBI0 2770. Prerequisites: CHEM 1310 or CHEM 1311 (C+); and one of BIOL 1030, BIOL 1031 (C). NOTE: Students may hold this course for credit in the B.Sc. General Degree program, but may not use it to fulfill the minimum requirement of 12 credit hours in 2000 level Chemistry (pre-September 2008 regulations). Those students following the new General Degree regulations (effective 2008-09) are able to use this course as part of the 18 credit hours of advanced level Chemistry or Microbiology.

CHEM 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways **Cr. Hrs. 3**

(Lab Required) An introductory course dealing with the basic metabolic processes that occur in living cells, including the production and use of metabolic energy, the breakdown and synthesis of biomolecules; the synthesis of DNA, RNA and proteins; and the regulation of these processes. This course is also given in Microbiology as MBI0 2370. May not be held with CHEM 2371, CHEM 2780, MBI0 2370, MBI0 2371, or MBI0 2780. Prerequisites: one of CHEM 2360, CHEM 2361, MBI0 2360, or MBI0 2361; and CHEM 2210 or CHEM 2211, both courses with a minimum grade of "C". NOTE: Students may hold this course for credit in the B.Sc. General Degree program, but may not use it to fulfill the minimum requirement of 12 credit

hours in 2000 level Chemistry (pre-September 2008 regulations). Those students following the new General Degree regulations (effective 2008-09) are able to use this course as part of the 18 credit hours of advanced level Chemistry or Microbiology.

CHEM 2400 Inorganic chemistry: Structure and Applications **Cr. Hrs. 3**

(Lab Required) Overview of chemical bonding, structure and reactivity across the Periodic Table, illustrated by examples linking Inorganic Chemistry with e.g. materials science and biochemistry. The lab component involves synthesis and analysis of simple inorganic compounds. May not be held with CHEM 2380, CHEM 2381 or CHEM 2401. Prerequisite: CHEM 1310 or CHEM 1311 (C).

CHEM 2470 Introductory Analytical Chemistry **Cr. Hrs. 3**

(Lab Required) A course in quantitative analysis provides training useful for nearly all scientists. It equips the students with the theoretical principles on which the analytical methods are based, with the ability to plan and perform experimental work, to interpret the results. May not be held with CHEM 2471. Prerequisites: CHEM 1310 or CHEM 1311 (C); and three credit hours of mathematics with the exception of MATH 1010, MATH 1190, MATH 1191, MATH 1020, or FA 1020.

CHEM 2550 Environmental Chemistry **Cr. Hrs. 3**

(Lab Required) An introduction to the chemistry of the environment. Emphasis will be on the composition of the natural environment and the processes of natural and human-introduced chemical species that take place within it. The course will provide students with the chemical basis for understanding the environment and environmental problems. This course is also taught in Environmental Science as ENVR 2550. Prerequisite: CHEM 1310 or CHEM 1311 (C).

CHEM 2560 Water Quality Analysis for Engineers **Cr. Hrs. 3**

(Lab Required) Principles and applications of chemical and instrumental methods for the analysis of water quality. This course is restricted to students in Civil Engineering.

CHEM 2770 Elements of Biochemistry 1 **Cr. Hrs. 3**

(Lab Required) Basic concepts of biochemistry including the properties of biomolecules (amino acids and proteins, enzymes, carbohydrates, lipids, and nucleic acids) and aspects of energy production in cells. For students in Agricultural and Food Sciences, Human Ecology, and Four Year Biological Sciences programs in Science. May not be used as part of an Honours, Major, General, or Minor program in Chemistry or in Microbiology. This course is also given in Microbiology as MBI0 2770. May not be held with CHEM 2360, CHEM 2361, MBI0 2360, MBI0 2361, CHEM 2860, or MBI0 2770. Prerequisites: one of CHEM 1310, CHEM 1311 (C), or CHEM 1320 (C); plus six credit hours of university level biological sciences.

CHEM 2780 Elements of Biochemistry 2 **Cr. Hrs. 3**

(Lab Required) The continuation of CHEM 2770 or MBI0 2770, dealing with nitrogen and lipid metabolism, representative biosynthetic pathways, and synthesis and importance of DNA, RNA and proteins. For students in Agricultural and Food Sciences, Human Ecology, and four-year Biological Science programs in Science. May not be used as part of an Honours, Major, General, or Minor program in Chemistry or Microbiology. This course is also given in Microbiology as MBI0 2780. May not be held with CHEM 2370, CHEM 2371, MBI0 2370, MBI0 2371, MBI0 2780. Prerequisites: one of CHEM 2770, MBI0 2770 (C), CHEM 2360, CHEM 2361, MBI0 2360, or MBI0 2361 (C).

CHEM 2860 Chemistry of Biomolecules **Cr. Hrs. 3**

(Lab Required) The chemistry of molecules encountered in biochemistry, including their structures, reactions, and physical properties. The concept of metabolic energy in biochemistry. May not be held with CHEM 2360, CHEM

2361, CHEM 2770, MBO 2360, MBO 2361, MBO 2770. Prerequisite: one of CHEM 1310, CHEM 1311 with a minimum grade of "C". This course is available only to students registered in the Chemistry Honours or Four Year Major program.

4.5.6 Chemistry Course Descriptions-3000 Level

CHEM 3260 Introduction to Computational Chemistry Cr. Hrs. 3

(Lab Required) This course provides an introduction to modern Computational Chemistry and its application to chemical problems, with a strong focus on practical applications. May not be held with the former CHEM 4660. Prerequisite: CHEM 2260 or CHEM 2281 (or the former CHEM 2280); plus six credit hours from CHEM 2290 (recommended) (or CHEM 2291), CHEM 2220 (or CHEM 2221), CHEM 2370 (or CHEM 2371 or MBO 2370, or MBO 2371), CHEM 2400 (or CHEM 2401 or the former CHEM 2380 or CHEM 2381), CHEM 3400 (or the former CHEM 3380).

CHEM 3360 Elementary Quantum Chemistry and Molecular Bonding Cr. Hrs. 3

(Lab Required) Elementary quantum chemistry and its applications to structure and bonding in molecules and solids. Prerequisite: CHEM 2260 or the former CHEM 2280 or CHEM 2281 (C).

CHEM 3370 Symmetry, Spectroscopy and Structure Cr. Hrs. 3

(Lab Required) Applications of symmetry in chemistry; molecular spectroscopy; structure of solids. Prerequisite: CHEM 2260 or the former CHEM 2280 or CHEM 2281 (C).

CHEM 3390 Structural Transformations in Organic Chemistry Cr. Hrs. 3

(Lab Required) An intermediate course dealing with the reactions of organic chemistry involving functional group transformations and carbon-carbon bond forming reactions. Prerequisite: one of CHEM 2220, CHEM 2221 (C), CHEM 2290 or CHEM 2291 is recommended.

CHEM 3400 Inorganic Chemistry: Reactivity and Properties Cr. Hrs. 3

(Lab Required) Advanced chemistry of the elements with emphasis on chemical reactivity, electronic structure and physical properties of inorganic compounds. The laboratory focuses on the preparation, structure determination and spectroscopic characterization of inorganic compounds. This course may not be held for credit with CHEM 3380. Prerequisite: CHEM 2400 or CHEM 2380 (C).

CHEM 3490 Introduction of Polymers Cr. Hrs. 3

An introduction to the formation, structure, physical properties, and degradation of polymers. Prerequisites: one of CHEM 2220, CHEM 2221 (C); and CHEM 2290 or CHEM 2291 (C).

CHEM 3570 Biophysical Chemistry Cr. Hrs. 3

The application of physical chemistry to biological problems, with an emphasis on quantitative interpretation. Topics include enzyme kinetics, bioenergetics, transport processes and spectroscopy. Prerequisites: CHEM 2360 or CHEM 2361 or MBO 2360 or MBO 2361 and MATH 1230 or MATH 1500 or MATH 1501 or MATH 1510 or MATH 1520. CHEM 2260 or the former CHEM 2280 or CHEM 2281 is recommended.

CHEM 3580 Methods in Physical Organic Chemistry Cr. Hrs. 3

(Lab Required) A course dealing with the application of physical chemical principles to organic reaction mechanisms. Prerequisite: one of CHEM 2220, CHEM 2221 (C). Prerequisite or concurrent registration: CHEM 2290 or CHEM 2291.

CHEM 3590 Instrumental Analysis Cr. Hrs. 3

(Lab Required) A course dealing with the theory and use of standard instruments used for chemical and biochemical analyses. An introduction to the interpretation of data obtained from such analyses. This course is designed to follow a classical analytical chemistry course. May not be held with ENVR 3550. Prerequisite: CHEM 2470 (C).

CHEM 3980 Work Term 1 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Chemistry Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only)

CHEM 3990 Work Term 2 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Chemistry Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.5.6 Chemistry Course Descriptions-4000 Level

CHEM 4100 Materials Chemistry Cr. Hrs. 3

This course emphasizes the synthesis, structure, properties and applications of a wide variety of materials, providing insight into the chemistry behind many common and high-tech materials and devices. Specific examples include solar cells, fibre optics, batteries, polymer composites, magnetic and multiferroic materials. May not be held with CHEM 4570 when titled "Materials Chemistry." Prerequisite: CHEM 3400 (C).

CHEM 4360 Signalling and Regulation of Gene Expression Cr. Hrs. 3

The biochemistry of cell response to external stimuli, with emphasis on animals. Cell surface receptors and ligands; signalling to the nucleus; phosphorylation and proteolysis; transcription; gradients in cell patterning. May not be held with CHEM 4361. Prerequisite: a "C" or better in one of CHEM 2370, CHEM 2371, MBO 2370, MBO 2371.

CHEM 4370 Glycobiology and Protein Activation Cr. Hrs. 3

The role of carbohydrate containing biomolecules in biochemistry and their importance for understanding some genetic diseases. The importance of limited proteolysis in activation of biomolecules. May not be held with CHEM 4371. Prerequisite: a "C" or better in one of CHEM 2370, CHEM 2371, MBO 2370, MBO 2371.

CHEM 4550 Aquatic Chemistry Cr. Hrs. 3

An examination of biogeochemical processes affecting the distribution, speciation and bioavailability of chemical substances in the aquatic environment. The theoretical basis for the chemical behaviour of natural water systems is discussed, as well as the description of processes involved in wastewater treatment. This course is also taught in Environmental Science as ENVR 4550. Prerequisite: A grade of "C" or better in one of CHEM 3590 or ENVR 3550; or permission of the department.

CHEM 4570 Topics in Inorganic Chemistry Cr. Hrs. 3

A variety of topics from recent literature. This is an advanced 4000 level course. Registration requires departmental permission. This course may not be offered every year - check with department for availability.

CHEM 4580 Topics in Organic Chemistry Cr. Hrs. 3

Selected topics dealing with the structure and reactivity of organic compounds. This is an advanced 4000 level course. Registration requires departmental permission. This course may not be offered every year - check with department for availability.

CHEM 4590 Bioanalytical Methods Cr. Hrs. 3

(Lab Required) This course introduces different methods used currently for the analysis of biological materials. Qualitative and quantitative aspects are explored. Instrumentation is described and practical methods are designed. Prerequisite: a grade of "C" or better in CHEM 3590 or ENVR 3550.

CHEM 4610 Advanced Chemical Techniques Cr. Hrs. 6

(Lab required) A workshop course consisting of lectures, problem solving, and advanced instrumental techniques. The course is designed to train potential research students in techniques like NMR, mass spectroscopy, and chromatography. This course is required of all final year Honours students in Chemistry. May not hold with the former CHEM 4600. Prerequisite: one of CHEM 3360 (C), CHEM 3370 (C), CHEM 3400 (C), CHEM 3380 (C), CHEM 3390 (C), CHEM 3590 (C) or CHEM 3580 (C).

CHEM 4620 Biochemistry of Nucleic Acids Cr. Hrs. 3

The structure of nucleic acids; synthesis and sequence determination; interaction with drugs and protein. May not be held with CHEM 4621. Prerequisite: a "C" or better in one of CHEM 2370, CHEM 2371, MBI0 2370, MBI0 2371.

CHEM 4630 Biochemistry of Proteins Cr. Hrs. 3

The structure and function of proteins, their physical and chemical properties and methods for studying them. May not be held with CHEM 4631. Prerequisite: a "C" or better in one of CHEM 2370, CHEM 2371, MBI0 2370, MBI0 2371.

CHEM 4640 Spectroscopy, Relaxation and Structure Cr. Hrs. 3

A course dealing with quantum mechanical manipulations and illustrations from magnetic resonance and other spectroscopies; relaxation and polarization phenomena. Prerequisite: CHEM 3370 (C) or permission of the Instructor.

CHEM 4650 Molecular States and Processes Cr. Hrs. 3

A course dealing with various aspects of molecular states and processes including student selected topics. Prerequisite: CHEM 3370 (C).

CHEM 4670 Drug Design and Drug Discovery Cr. Hrs. 3

An understanding of the design, synthesis and interactions of drug molecules. Emphasis will be on novel drug-like molecules in the early stages of drug discovery with special focus on brain diseases and infectious diseases. Prerequisites: CHEM 2220 (C); and one of CHEM 2360, CHEM 2361, MBI0 2360, MBI0 2361 (C) or CHEM 2860 (C).

CHEM 4680 Organometallic Chemistry Cr. Hrs. 3

Chemistry of organometallic compounds of the transition metals and representative elements. Prerequisite: CHEM 3400 (C), or CHEM 3380 (C), or CHEM 3390 (C).

CHEM 4690 Specific Methods in Organic Synthesis Cr. Hrs. 3

Advanced methods and principles of organic synthesis of complex molecules. Prerequisite: CHEM 3390 (C).

CHEM 4700 Advanced Biochemistry Laboratory Cr. Hrs. 3

(Lab required) A laboratory and workshop consisting of lectures, problem solving, and advanced instrumental techniques such as magnetic resonance spectroscopy, mass spectrometry, circular dichroism, x-ray crystallography, fluorescence spectroscopy and computer analysis of protein sequences. This course is required for all final year Honours students in Biochemistry. Prerequisite or concurrent requirement: CHEM 4620 or CHEM 4621; and CHEM 4630 or CHEM 4631.

CHEM 4710 Research Project in Chemistry or Biochemistry Cr. Hrs. 6

(Lab required) A research project in any aspect of chemistry or biochemistry, chosen in consultation with the course administrator and an

appropriate supervising faculty member. Written reports and oral presentation at the end of the project will be required. The course is normally available only to final year students in chemistry programs. May not be held with CHEM 4711 or MBI0 4530. Prerequisite: Permission of the course administrator.

CHEM 4800 Topics in Physical/Theoretical Chemistry Cr. Hrs. 3

Selected topics related to physical chemistry properties of matter, their measurement, and computational methods for studying them. This is an advanced 4000 level course, registration only by Departmental permission. This course may not be offered every year - check with department for availability.

CHEM 4802 Topics in Analytical Chemistry Cr. Hrs. 3

Selected topics on the most recent and sensitive techniques described in the literature in the Analytical, Bioanalytical and Environmental areas. A selection of topics among separation, surface, ionization, spectroscopy, voltammetry and spectrometry techniques will be covered. This is an advanced 4000 level course, registration only by Department permission. This course may not be offered every year - check with department for availability.

CHEM 4804 Topics in Biochemistry Cr. Hrs. 3

Selected advanced topics relevant to the study of biomolecules. This is an advanced 4000 level course, registration only by Departmental permission. This course may not be offered every year - check with department for availability.

CHEM 4980 Work Term 3 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Chemistry Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

CHEM 4990 Work Term 4 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Chemistry Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.6 Department of Computer Science

Head: John Anderson

Campus Address/General Office: E2-445 EITC

Telephone: 204 474 8313

Email Address: queries@cs.umanitoba.ca

Website: www.cs.umanitoba.ca

4.6.1 Program Information

Computer technology continues to advance and computer applications are found in all fields and disciplines. As new applications proliferate, opportunities for careers in computing will continue to be strong. Both the Major and the Honours programs offer a co-op option so students may combine education with paid employment experience. The co-operative (co-op) option in Computer Science is well established with the first class graduating in October 1983.

The department must approve a student's Honour or Major program prior to registration for each Fall/Winter Term. Students must also obtain departmental approval for any and all revisions to their program.

The Computer Science Honours and Major programs, including the Co-op programs, and the Software Engineering area of specialization, are accredited by the Computer Science Accreditation Council.

Honours

The Honours program in Computer Science at the University of Manitoba was the first Honours program in Canada to be given professional accreditation by the Canadian Information Processing Society. The program provides an opportunity to study the subject in greater depth than the other programs in Computer Science and leads to an Honours Bachelor of Computer Science degree (B.C.Sc.). In addition, this program gives professional preparation for careers in areas such as software engineering, system design or project management.

To enter the Honours program in Computer Science, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in COMP 1020, "C+" in both MATH 1220 (or MATH 1300) and MATH 1230 (or MATH 1500) (or their equivalents) and "C" in MATH 1700 (or equivalents).

To continue in the Computer Science Honours program, students must maintain a minimum DGPA of 3.00 and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate from the Computer Science Honours program students must achieve a minimum DGPA of 3.00 and obtain a minimum grade of "C" on the courses that make up the 120 credit hours of the degree.

Students can take a maximum of 90 credit hours of computer science, statistics and mathematics courses. Outside of computer science and mathematics courses, students are encouraged to select courses such that their programs include at least 15 credit hours of study in science, engineering, or business, and at least 9 credit hours of study in the humanities or social sciences.

Four Year Major

To enter the Major Degree program in Computer Science, a student must have completed at least 24 credit hours with a minimum DGPA of 2.00, and also obtained a minimum grade of "C+" in COMP 1020, "C+" in both MATH 1300 and MATH 1500 (or their equivalents) and "C" in MATH 1700 (or equivalents).

To continue in the Major program a student must maintain a minimum DGPA of 2.00.

To graduate with the Computer Science Major degree, a student must present a minimum grade of "C+" in: MATH 1300 (or equivalent), MATH 1500 (or equivalent), and a minimum grade of "C" in MATH 1240, MATH 1700 (or equivalent), (STAT 1000 or STAT 1150), COMP 2080, COMP 2140, COMP 2150, COMP 2160, COMP 2280, COMP 3350, COMP 3370, COMP 3430, COMP 4620 and in each of the 18 credit hours of 3000 and 4000 level Computer Science courses that apply to the Computer Science component of their degree program. Additionally, students must achieve a minimum DGPA of 2.00.

This program is suitable for those students interested in combining a fairly extensive program in Computer Science with broad coverage of another subject or subjects of their choice (Science or non-Science). The program offers greater scheduling flexibility, more relaxed entrance requirements, and a wider range for the inclusion of electives from other disciplines than the Honours program, but it is not considered to offer the same professional training as the Honours program. Admission to graduate programs may be conditional upon completion of additional courses. Students intending to proceed to a master's degree from the four year Major program must consult with the department at the beginning of their second year of undergraduate study and in each subsequent year.

The student will be able to transfer to the Honours program at the end of the second year, provided that departmental and faculty requirements for the Honours program at that stage are satisfied.

Students, who at the end of Year 1, are undecided between the four year Major program and the Honours program, should note that the required courses in Year 2 Honours satisfy the requirements for both the Honours and Major programs. It is suggested that students with the necessary prerequisite standing in Year 1 may wish to register in the courses listed for Year 2 of the Honours program, and thus keep both options open.

Students can take a maximum of 90 credit hours of computer science, statistics and mathematics courses. Outside of computer science and mathematics courses, students are encouraged to select courses such that their programs include at least 15 credit hours of study in science, engineering, or business, and at least nine (9) credit hours of study in the humanities or social sciences. In addition to the faculty maximum, students may be allowed to take up to an additional 12 credit hours of courses outside of the Faculty of Science, with departmental permission. The permission would typically be granted if a student is completing a minor outside of Science and may have completed a variety of electives outside the Faculty prior to declaring a minor in one department.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students are required to complete all the first and second year courses in the program chart before their first co-op work term.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students are required to complete all the first and second year courses in the program chart before their first co-op work term.

Three Year General

As prescribed with all other faculty regulations in Section 3.2, students in this program must select 18 credit hours of 2000, 3000, and (or) 4000 level courses from each of **two** Science areas. To satisfy the requirement in the area of Computer Science, students must select a minimum of 18 credit hours from the 2000, 3000, and (or) 4000 level courses offered by the department (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level.).

| | |
|--|--|
| <p>Area Specializations</p> <p>Students who obtain a grade of "C" or better in the courses listed for an area of specialization will receive a notation on their transcript stating</p> | <p>Human-Computer Interaction and Computer Graphics</p> |
|--|--|

| | |
|---|---|
| that they have met the requirements of that specialization. Students may obtain such a notation for more than one area. | Requires: COMP 3020, and COMP 3490; one of COMP 4020 or COMP 4490. |
| Theoretical Computer Science | Databases |
| Requires: COMP 3170, COMP 3030, and COMP 4420; and two of COMP 4340, 4140, and/or COMP 4510. | Requires: COMP 3380 and COMP 4380; and one of COMP 4710 or COMP 4740. |
| Networks and Security | Software Engineering |
| Requires: COMP 4140, COMP 4300, and COMP 4580. | Requires: COMP 3010, COMP 3020, COMP 3040, COMP 3380, COMP 4050, COMP 4350 and COMP 4620. |
| Artificial Intelligence | Computer Systems |
| Requires: COMP 3190; and two of COMP 4180, COMP 4190, COMP 4200, and/or COMP 4360. | Requires: One of COMP 3010, or COMP 3290; and two of COMP 4430, COMP 4550, COMP 4510, and/or COMP 4690. |
| | Web Based Systems |
| | Requires: COMP 3010, COMP 3020, COMP 3380, COMP 4350, COMP 4580 |

4.6.2 Computer Science

4.6.2 Computer Science Program Charts

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--|
| HONOURS ^{2,3,4,5} (Including Cooperative Option if selected) 2 120 CREDIT HOURS | | | |
| COMP 1010 ¹ , COMP 1020 (B) | COMP 2080, COMP 2140, COMP 2150, COMP 2160, COMP 2280 | COMP 3030, COMP 3170, COMP 3350, COMP 3370, COMP 3430 | COMP 4620 and 21 credit hours of 4000 level Computer Science courses |
| (MATH 1220 ¹ (C+) or MATH 1300 ¹ (C+)) | MATH 1240 ¹ | | |
| (MATH 1230 ¹ (C+) or MATH 1500 ¹ (C+)) | | | |
| MATH 1700 ¹ (C) | | | |

| | | | |
|---|--|--|----------|
| In Year 1 and / or Year 2 the following must be completed: | | 21 credit hours of approved electives ^{3,5} | |
| STAT 1000 (C) or STAT 1150 (C) | | Work Terms (if Co-op Selected): | |
| 6 credit hours from the Faculty of Arts, which should include the required 3 credit hour "W" course. | | COMP 2980, COMP 3980, COMP 4980 must be completed prior to the last academic term | |
| 18 credit hours of approved elective courses ^{3,4} | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| FOUR YEAR MAJOR ^{2,3,4,5} (Including Cooperative Option if Selected) 2 120 CREDIT HOURS | | | |
| COMP 1010 ¹ , COMP 1020 (C+) | COMP 2080, COMP 2140, COMP 2150, COMP 2160, COMP 2280 | COMP 3350, COMP 3370, COMP 3430, COMP 4620 18 credit hours of 3000 or 4000 level Computer Science courses of which 6 credit hours must be at the 4000 level | |
| MATH 1300 (C+), ¹ MATH 1500 (C+), ¹ MATH 1700 ¹ (C) | MATH 1240 ¹ | | |
| In Year 1 or Year 2 the following must be completed: | | 30 credit hours of approved electives ^{3,5} | |
| STAT 1000 (C) or STAT 1150 (C) | | Work Terms (if Co-op Selected): | |
| 6 credit hours from the Faculty of Arts, which should include the required 3 credit hour "W" course. | | COMP 2980, COMP 3980, COMP 4980 must be completed prior to the last academic term | |
| 18 credit hours of approved electives ^{4,5} | | | |
| THREE YEAR GENERAL 90 CREDIT HOURS | | | |
| COMP 1010 ¹ , COMP 1020 | 18 credit hours of 2000, 3000, and (or) 4000 level Computer Science courses (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level) | | |
| MINOR | | | |
| COMP 1010 ¹ , COMP 1020 | COMP 2140 Plus a minimum of 9 credit hours from 2000 and (or) 3000 level Computer Science courses. | | |

NOTES:

1 COMP 1012 may be taken in place of COMP 1010, MATH 1210, MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1230, MATH 1510, MATH 1520, or MATH 1690 (6) may be taken in place of MATH 1500; MATH 1232, MATH 1710 or MATH 1690 (6) may be taken in place of MATH 1700. Honours students are encouraged to take MATH 1220 instead of MATH 1300 and to take MATH 1230 instead of MATH 1500 to better prepare them for later, higher-level studies. Students who have previously completed COMP 2130 may use it in lieu of MATH 1240.

2 Entry to the Honours Co-operative Option and four-year Major Co-operative Option is at the end of second year. Employment terms follow 3A (September-December), 3B (May-August) and 4A (January-April). Students in the Co-operative Option must complete three employment terms and receive a passing grade in COMP 2980, COMP 3980 and COMP 4980 prior to the last academic term.

3 Additional information on how students may select their courses can be found at the beginning of this section.

4 **IMPORTANT:** The Honours and four-year Major degree need not be completed in the order prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. Students in the Co-operative Option should be aware that while other arrangements are possible, they may jeopardize their chances of obtaining employment by selecting such arrangements. Students should discuss their planned sequence of courses with the department prior to making adjustments to the sequence above.

5 **IMPORTANT:** A maximum of 90 credit hours of computer science, statistics and mathematics courses can be included in a Major or Honours program.

4.6.3 Computer Science - Mathematics Joint Honours Program (Including Co-op if selected)

The departments of Computer Science and Mathematics offer a joint Honours program for in-depth study in both Computer Science and Mathematics.

Honours Requirements

To enter the Joint Honours Computer Science-Mathematics program, the student must have a minimum grade of "B" in each of COMP 1020, either MATH 1232 or MATH 1690 (or a minimum grade of "A" in MATH 1700), and have satisfied the Faculty of Science requirements for entry to the honours program. It is recommended that STAT 2150 be completed in Year 1 as an elective.

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|---|--------|
| JOINT HONOURS (Including Co-operative Option if selected) 120 CREDIT HOURS | | | |
| COMP 1010 and COMP 1020 (B) MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 STAT 1150 ¹ | COMP 2080, COMP 2140, COMP 2160, COMP 2280 MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 | COMP 3030, COMP 3170, COMP 3370, COMP 3430 Three of: COMP 3010, COMP 3020, COMP 3290, COMP 3350, COMP 3380, COMP 3190, COMP 3440, COMP 3490, COMP 3820 Three of: COMP 4020, COMP 4140, COMP 4180, COMP 4190, (COMP 4290), COMP 4300, COMP 4340, COMP 4350, COMP 4360, | |

| | | | |
|--|--|--|--|
| 6 credit hours from the Faculty of Arts, which should include the required 3 credit hour "W" course ² | 3 credit hours of approved electives | COMP 4380, COMP 4490, COMP 4510, COMP 4580, COMP 4690, COMP 4710 MATH 2030, MATH 2160, MATH 3320, MATH 3440, MATH 3470, MATH 3472 9 credit hours from MATH 2070, MATH 2170, any 3000 or 4000 level Mathematics courses, of which at least 3 credit hours must be 4000 level 3 credit hours of electives | |
| 3 credit hours of electives | Work Term (if Co-op Selected)²: COMP 2980 | Work Term (if Co-op Selected)²: COMP 3980 | Work Term (if Co-op Selected)²: COMP 4980 |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) or MATH 1710 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150.

² When chosen, the Co-operative Option work terms (COMP 2980, COMP 3980, COMP 4980) will normally be completed during the Summer Terms following years 2, 3, and 4 respectively.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

4.6.4 Computer Science – Physics & Astronomy Joint Honours Program

The departments of Computer Science and Physics & Astronomy offer a joint Honours program for in-depth study in both Computer Science and Physics & Astronomy.

To enter the Joint Honours Computer Science-Physics and Astronomy program, the student must have a minimum grade of "B" in each of PHYS 1050 (or "B+" in PHYS 1020), PHYS 1070 (or B+ in PHYS 1030), MATH 1300, MATH 1500, MATH 1700 (or any equivalent), COMP 1010 (or COMP 1012) and COMP 1020 and a minimum DGPA of 3.00. Students must complete a minimum of 9 credit hours per term in each Fall and Winter term.

To continue in the Honours program, students must maintain a minimum DGPA of 3.00, complete a minimum of 9 credit hours during each Fall and Winter term (or equivalent for students in the Co-operative option).

To graduate with the Honours degree, a student must obtain a minimum DGPA of 3.00 and present a minimum grade of "C" in each course that contributes to the degree

The departments must approve a student's Honours program each session. Students must also obtain departmental approval for any and all revisions to their program.

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|---|--|
| JOINT HONOURS (Including Co-operative Option if selected) 120 CREDIT HOURS | | | |
| PHYS 1050 (B) (or PHYS 1020 (B+)) and PHYS 1070 ¹ (B) (or PHYS 1030 (B+)) COMP 1010 or COMP 1012, COMP 1020 (B) MATH 1300 ² (B), MATH 1500 ² (B), MATH 1700 ² (B) 6 credit hours from the Faculty of Arts, which must include the required 3 credit hour "W" course ³ 3 credit hours of electives | PHYS 2260 or Physics elective ⁵ , PHYS 2386, PHYS 2496, PHYS 2650 MATH 1240 ² , MATH 2720 COMP 2080, COMP 2140, COMP 2160, COMP 2280 | PHYS 2600, PHYS 2610 or Physics elective ⁵ , PHYS 3386, PHYS 3670, PHYS 3496 COMP 2190, COMP 3170, COMP 3430 6 credit hours of 3000 and/or 4000 level Computer Science courses | PHYS 4680 12 credit hours of 3000 and 4000 level Honours Physics courses, with at least 6 credit hours at the 4000 level 12 credit hours of 3000 or 4000 level courses from Computer Science, with at least 9 credit hours at the 4000 level by the end of Year 4 3 credit hours of electives |
| | Work Term (if Co-op Selected): COMP 2980 ⁴ | Work Term (if Co-op Selected): COMP 3980 ⁴ | Work Term (if Co-op Selected): COMP 4980 ⁴ |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

- ¹ PHYS 1050 and PHYS 1070 are recommended.
- ² MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1230, MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700. Students who have previously completed COMP 2130 may use it in lieu of MATH 1240.
- ³ As there are no open electives in Year 2 of the program, students should complete the University written English requirement in Year 1. If not completed in Year 1, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.
- ⁴ When chosen, the Co-operative Option work terms (COMP 2980, COMP 3980, COMP 4980) will normally be completed during the Summer Terms following years 2, 3, and 4 respectively.

⁵ Students are required to take at least one of PHYS 2260 or PHYS 2610.

4.6.5 Computer Science – Statistics Joint Honours Program

The departments of Computer Science and Statistics offer a joint Honours program for in-depth study in both Computer Science and Statistics.

To enter the Joint Honours Computer Science-Statistics Program, the student must have a "B" or better in COMP 1020 and in STAT 2150 and a DGPA of 3.00. Note that MATH 1220¹, MATH 1230¹ and MATH 1232¹ and MATH 1240 are not required to enter the program, however, it is recommended that they be completed in Year 1 as they are prerequisites to Year 2 courses.

To continue in the Joint Honours Computer Science - Statistics Program, students must maintain a DGPA of 3.00.

To graduate with the Honours degree a student must present a minimum grade of "C" in each course that contributes to the degree. In addition, the student must achieve a minimum DGPA of 3.00.

Both departments must approve a student's Honours program each session. Students must also obtain approval from both departments for any and all revisions to the program.

4.6.5 Computer Science – Statistics Joint Honours Program

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--|
| JOINT HONOURS 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| COMP 1010, COMP 1020 (B) STAT 1150 ¹ , STAT 2150 (B) MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 Plus 6 credit hours from the Faculty of Arts, which could include the required 3 credit hour "W" course. | COMP 2080, COMP 2140, COMP 2150, COMP 2160, COMP 2190, STAT 2400 MATH 2080, MATH 2150 6 credit hours of electives | COMP 3170, COMP 3380 STAT 3050, STAT 3400, STAT 3470, STAT 3480, STAT 3800 9 credit hours of electives ³ including 3 credit hours from 3 rd year COMP | STAT 4100, STAT 4520, STAT 4530 21 credit hours of electives including 6 credit hours from 4 th year COMP ² , 3 credit hours from 3 rd year COMP and 6 credit hours from 4 th year STAT courses |

| | | | |
|---|--|---|--|
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| JOINT HONOURS CO-OPERATIVE OPTION⁴ 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| COMP 1010, COMP 1020 (B) STAT 1150 ¹ , STAT 2150 (B) MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 Plus 6 credit hours from the Faculty of Arts, which could include the required 3 credit hour "W" course. | COMP 2080, COMP 2140, COMP 2150, COMP 2160, COMP 2190 STAT 2400 MATH 2080, MATH 2150 6 credit hours of electives | COMP 3170, COMP 3380 STAT 3050, STAT 3400, STAT 3470, STAT 3480, STAT 3800 9 credit hours of electives ³ including 3 credit hours from 3 rd year COMP | STAT 4100, STAT 4520, STAT 4530 21 credit hours of electives including 6 credit hours from 4 th year COMP ² , 3 credit hours from 3 rd year COMP and 6 credit hours from 4 th year STAT courses |
| | COMP 2980 ⁴ | COMP 3980 ⁴ | COMP 4980 ⁴ |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| <p>NOTES:</p> <p>¹ MATH 1510 (B) or MATH 1500 (B) may be taken in place of MATH 1230; MATH 1300 (B) may be taken in place of MATH 1220; MATH 1710 (B) or MATH 1700 (B) may be taken in place of MATH 1232. STAT 1000 (C) and STAT 2000 (B) may be taken in place of STAT 1150.</p> <p>² COMP 4710 and COMP 4380 are suggested if offered.</p> <p>³ The following courses are suggested: COMP 3350, COMP 3020, COMP 3490, STAT 3490, STAT 4630, STAT 4690.</p> <p>⁴ The work terms COMP 2980, COMP 3980 and COMP 4980 will be completed in the summers following Year 2, Year 3 and Year 4, respectively and must be completed by the last academic term.</p> | | | |

4.6.6 Computer Science Course Descriptions-1000 Level

COMP 1010 Introductory Computer Science 1 Cr. Hrs. 3

(Lab Required) An introduction to computer programming using a procedural high level language. May not be held with COMP 1011 or COMP 1012 or COMP 1013. Prerequisite: any grade 12 or 40S Mathematics, or equivalent.

COMP 1012 Computer Programming for Scientists and Engineers Cr. Hrs. 3

(Lab Required) An introduction to computer programming suitable for solving problems in science and engineering. Students will implement algorithms for numerical processing, statistical analysis and matrix operations. Not to be held with COMP 1010, COMP 1011 or COMP 1013. Prerequisite: Mathematics 40S or equivalent. Co-requisite: MATH 1230 or MATH 1500 or MATH 1501 (or equivalent).

COMP 1020 Introductory Computer Science 2 Cr. Hrs. 3

(Lab Required) More features of a procedural language, elements of programming. May not be held with COMP 1021. Prerequisite: COMP 1010 or COMP 1011 (C); or COMP 1012, or COMP 1013 (C); or High School Computer Science 40S (75%) and any grade 12 or 40S Mathematics, or equivalent.

COMP 1500 Computing: Ideas and Innovation Cr. Hrs. 3

An introduction to the topics of Computer Science and problem solving. Students will learn concepts in computer programming. May not be used to fulfill computer science requirements in a Computer Science Honours, Major, General or Minor program. Not available to students who have previously obtained credit in, or are concurrently registered in any of COMP 2080, COMP 2130, COMP 2140, COMP 2150, COMP 2160 or COMP 2280.

COMP 1600 Navigating Your Digital World Cr. Hrs. 3

Topics related to digital society such as security, encryption and data storage, issues of social and ethical importance, and current events. May not be used to fulfill computer science requirements in a Computer Science Honours, Major, General or Minor program. Not available to students who have previously obtained credit in, or are concurrently registered in any of COMP 2080, COMP 2130, COMP 2140, COMP 2150, COMP 2160 or COMP 2280. May not be held with the former COMP 1270.

4.6.6 Computer Science Course Descriptions-2000 Level

COMP 2080 Analysis of Algorithms Cr. Hrs. 3

Methods of analyzing the time and space requirements of algorithms. Average case and worst case analysis. Models of computation. Prerequisites: MATH 1240 (C), MATH 1241 (C) or COMP 2130 (C); and one of COMP 2140, or the former COMP 2061 (C). STAT 1000 or STAT 1001 or STAT 1150 is strongly recommended.

COMP 2130 Discrete Mathematics for Computer Science Cr. Hrs. 3

An introduction to the set theory, logic, integers, combinatorics and functions for today's computer scientists. Prerequisites: COMP 1020 or COMP 1021 (C), and a "C" in one of: MATH 1210, MATH 1211, MATH 1220, MATH 1300, MATH 1301, MATH 1310; and one of: MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, or MATH 1690.

COMP 2140 Data Structures and Algorithms Cr. Hrs. 3

(Lab Required) Introduction to the representation and manipulation of data structures. Topics will include lists, stacks, queues, trees, and graphs. May not be held with COMP 2061. Prerequisites: one of COMP 1020, COMP 1021 (C).

COMP 2150 Object Orientation Cr. Hrs. 3

Design and development of object-oriented software. Topics will include inheritance, polymorphism, data abstraction and encapsulation. Examples will be drawn from several programming languages. Prerequisite: COMP 2160; and one of COMP 2140 or COMP 2061(C).

COMP 2160 Programming Practices Cr. Hrs. 3

(Lab Required) Introduction to issues involved in real-world computing. Topics will include memory management, debugging, compilation,

performance, and good programming practices. Prerequisite: COMP 1020 (C+) or COMP 1021 (C+).

COMP 2190 Introduction to Scientific Computing Cr. Hrs. 3

An applied computational course introducing topics such as approximation by polynomials, solution of non-linear equations, linear systems, simulation and computational geometry. May not hold with COMP 2191. Prerequisites: One of COMP 1020 or COMP 1021, or COMP 1012 (C) or COMP 1013 (C); and one of MATH 1230, MATH 1500, MATH 1501 (C), MATH 1510 (C), MATH 1520 (C), or MATH 1690 (C). Prerequisite or concurrent registration: One of MATH 1220, MATH 1300, MATH 1301, or MATH 1310.

COMP 2280 Introduction to Computer Systems Cr. Hrs. 3

(Lab Required) Data representation and manipulation, machine-level representation of programs, assembly language programming, and basic computer architecture. Not available to students who have previously completed ECE 3610. Prerequisites: COMP 2140 (C), COMP 2160 (C), and one of MATH 1240 (C), MATH 1241 (C) or COMP 2130 (C).

COMP 2980 Workterm 1 Cr. Hrs. 0

Work assignment in business, industry, or government for students registered in the Computer Science Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail)

4.6.6 Computer Science Course Descriptions-3000 Level

COMP 3010 Distributed Computing Cr. Hrs. 3

An introduction to the development of client server and peer-to-peer systems through web applications, distributed programming models, and distributed algorithms. Prerequisite: COMP 2150 (C) or ECE 3740 (C).

COMP 3020 Human-Computer Interaction 1 Cr. Hrs. 3

Human-computer interaction: human factors and usability, user-centered design, prototyping, usability evaluation. Prerequisite: one of COMP 2140 or COMP 2061 (C). A course in cognitive psychology, such as PSYC 2480, is recommended.

COMP 3030 Automata Theory and Formal Languages Cr. Hrs. 3

An introduction to automata theory, grammars, formal languages and their applications. Topics: finite automata, regular expressions and their properties; context-free grammars, pushdown automata and properties of context-free languages; Turing machines and their properties. Prerequisite: COMP 2080 (C).

COMP 3040 Technical Communication in Computer Science Cr. Hrs. 3

This course is designed to help students become more effective and confident writers in the context of the computing profession. Students will be introduced to a broad range of written and oral presentation styles used in the computing workplace. Prerequisite: Students must be enrolled in third year (or higher) of a majors or honours program in the Department of Computer Science.

COMP 3090 Digital Logic 2 Cr. Hrs. 3

Design and implementation of digital circuits. Minimization and state reduction, asynchronous circuits, arithmetic circuits, implementation using modern hardware techniques. May not to be held with ECE 2220. Prerequisite: COMP 2280 (C).

COMP 3170 Analysis of Algorithms and Data Structures Cr. Hrs. 3

Fundamental algorithms for sorting, searching, storage management, graphs, databases and computational geometry. Correctness and analysis of those algorithms using specific data structures. An introduction to lower

bounds and intractability. Prerequisites: one of COMP 2140 or COMP 2061(C); and COMP 2080 (C).

COMP 3190 Introduction to Artificial Intelligence Cr. Hrs. 3

Principles of artificial intelligence: problem solving, knowledge representation and manipulation; the application of these principles to the solution of 'hard' problems. Prerequisite: one of COMP 2140 or COMP 2061(C).

COMP 3290 Introduction to Compiler Construction Cr. Hrs. 3

Introduction to the standard compiler phases: scanning, parsing, symbol-table management, code generation, and code optimization. The emphasis is on the simpler techniques for compiler construction such as recursive descent. Prerequisites: COMP 2140 (or COMP 2061) (C) and COMP 2280 (or ECE 3610) (C). COMP 2160 is recommended.

COMP 3350 Software Engineering 1 Cr. Hrs. 3

Introduction to software engineering. Software life cycle models, system and software requirements analysis, specifications, software design, testing and maintenance, software quality. Prerequisites: COMP 2150 (C) or ECE 3740 (C).

COMP 3370 Computer Organization Cr. Hrs. 3

Principles of computer systems architecture, organization and design. Performance, instruction sets, processors, input/output, memory hierarchies. Prerequisite: COMP 2280 (C) or ECE 3610 (C).

COMP 3380 Databases Concepts and Usage Cr. Hrs. 3

An introduction to database systems including the relational, hierarchical, network and entity-relationship models with emphasis on the relational model and SQL. Prerequisite: one of COMP 2140 or COMP 2061(C).

COMP 3430 Operating Systems Cr. Hrs. 3

(Lab Required) Operating systems, their design, implementation, and usage. Prerequisites: one of COMP 2140 or COMP 2061(C); and COMP 2280 (C) or ECE 3610 (C). COMP 2160 is recommended.

COMP 3440 Programming Language Concepts Cr. Hrs. 3

An introduction to major concepts involved in the design of modern programming languages. The imperative, functional, and logical families and differences between them. Facilities for high level data and control structures, modular programming, data typing, and other topics will be covered. Prerequisite: one of COMP 2140 or COMP 2061(C).

COMP 3490 Computer Graphics 1 Cr. Hrs. 3

An introductory course in computer graphics including topics such as raster graphics, two and three dimensional transforms, and simple rendering. Prerequisite: COMP 2140 (C); and either COMP 2190 (C), or a C in both: MATH 1300 (or MATH 1220, MATH 1310, MATH 1301, MATH 1210 or MATH 1211) and MATH 1500 (or MATH 1230, MATH 1501, MATH 1510 or MATH 1520).

COMP 3820 Introduction to Bioinformatics Algorithms Cr. Hrs. 3

An introduction to problems in molecular biology and computational solutions. Focus on design and analysis of efficient algorithms. Prerequisites: COMP 2080. Suggested prerequisite: MBIO 1410. Suggested concurrent requirement: COMP 3170.

COMP 3980 Workterm 2 Cr. Hrs. 0

Work assignment in business, industry, or government for students registered in the Computer Science Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisite: COMP 2980 (P).

4.6.6 Computer Science Course Descriptions-4000 Level**COMP 4020 Human-Computer Interaction 2 Cr. Hrs. 3**

Advanced issues in the field of human-computer interaction. Topics will be selected from current research and development issues in the field of HCI. Prerequisite: COMP 3020 (C). A course in cognitive psychology such as PSYC 2480 is recommended.

COMP 4050 Project Management Cr. Hrs. 3

Introduction to the issues involved in managing large, complex software projects. Prerequisite: COMP 3350 (C).

COMP 4060 Topics in Computer Science Cr. Hrs. 3

This course will examine topics of interest at the fourth-year level. Specific topics will vary from year to year. Topics will be selected from current research in computer science. Prerequisite: Departmental permission.

COMP 4140 Introduction to Cryptography and Cryptosystems Cr. Hrs. 3

Description and analysis of cryptographic methods used in the authentication and protection of data. Classical cryptosystems and cryptoanalysis, the Advanced Data Encryption Standard (ADES) and Public-key cryptosystems. Prerequisite: one of MATH 1240 (C), MATH 1241 (C) or COMP 2130 (C). Students must be registered in Computer Engineering or fourth year of a Major or Honours program in the Department of Computer Science.

COMP 4180 Intelligent Mobile Robotics Cr. Hrs. 3

Topics include artificial intelligence, computer vision, human-robot interaction, and multi-robot systems. These abstract components are grounded in the problem of developing a team of intelligent mobile robots. All topics are covered with specific emphasis on applied problems, e.g. real-time performance. Not to be held with the former COMP 4060 – "Mobile Robotics". Prerequisites: COMP 2160 and COMP 3190 (C).

COMP 4190 Artificial Intelligence Cr. Hrs. 3

Reasoning with temporal knowledge; causal reasoning; plausible reasoning; nonmonotonic reasoning; abductive reasoning. Prerequisite: COMP 3190 (C).

COMP 4200 Expert Systems Cr. Hrs. 3

Organization of expert systems; knowledge representation in expert systems; inference; knowledge engineering; tools for building expert systems; limitations of expert systems. Prerequisite: COMP 3190 (C).

COMP 4300 Computer Networks Cr. Hrs. 3

(Lab required) This course examines the principles of computer networks, including network architectures, algorithms, protocols, and performance. May not be held with the former COMP 3720 or the former COMP 4720 or ECE 3700. Prerequisite: COMP 2280 (C) and COMP 3010 (C).

COMP 4340 Graph Theory Algorithms 1 Cr. Hrs. 3

Spanning trees, connectivity, planar graphs, directed graphs, networks, colouring problems and tours are studied and their applications to computer science will be highlighted. Prerequisite: COMP 3170 (C).

COMP 4350 Software Engineering 2 Cr. Hrs. 3

Advanced treatment of software development methods. Topics will be selected from requirements gathering, design methodologies, prototyping, software verification and validation. Prerequisite: COMP 3350 (C).

COMP 4360 Machine Learning Cr. Hrs. 3

Learning strategies; evaluation of learning; learning in symbolic systems; neural networks, genetic algorithms. May not be held with ECE 4450. Prerequisite: COMP 3190.

COMP 4380 Database Implementation Cr. Hrs. 3

Implementation of modern database systems including query modification/optimization, recovery, concurrency, integrity, and distribution. Prerequisite: COMP 3380 (C).

COMP 4420 Advanced Design and Analysis of Algorithms Cr. Hrs. 3

Algorithm design with emphasis on formal techniques in analysis and proof of correctness. Computational geometry, pattern matching, scheduling, numeric algorithms, probabilistic algorithms, approximation algorithms and other topics. Prerequisites: COMP 3170 (C) and (STAT 1000 (C) or STAT 1001 (C) or STAT 1150 (C)).

COMP 4430 Operating Systems 2 Cr. Hrs. 3

Design and implementation of modern operating systems. Detailed analysis of an open source modern operating system and hands-on experience with its kernel and major components. Prerequisites: COMP 2160 (C) and COMP 3430 (C).

COMP 4490 Computer Graphics 2 Cr. Hrs. 3

Methods in computer graphics including topics such as representation of curves and surfaces, viewing in three dimensions, and colour models. Prerequisite: COMP 3490 (C).

COMP 4510 Introduction to Parallel Computation Cr. Hrs. 3

An overview of the architectures of current parallel processors and the techniques used to program them. Not to be held with ECE 4530. Prerequisites: COMP 3370 (C) and COMP 3430 (C).

COMP 4520 Undergraduate Honours Project Cr. Hrs. 3

A research based project on a specific area of computer science. Students must find a faculty supervisor and write a proposal in their penultimate term. If acceptable, the defined research is to be carried out in the student's final term. Permission to take the course is given on an individual basis. Available to 4th Year students only. Prerequisite: departmental permission.

COMP 4550 Real-Time Systems Cr. Hrs. 3

An introduction to the theory and practice of real-time systems. Topics include the design of real-time systems, scheduling, event based processing, and real-time control. This course may not be held for credit if a student has previously completed both of ECE 4240 and ECE 3760. Prerequisites: COMP 3430 (C) and COMP 3370 (C).

COMP 4560 Industrial Project Cr. Hrs. 3

Students will work in teams on an industrial project. Projects are supplied by the Department. Prerequisites: COMP 3350 (C) and departmental permission.

COMP 4580 Computer Security Cr. Hrs. 3

(Lab Required) Computer security and information management. This course will examine state-of-the-art knowledge about the issues relevant to data and computer security. Prerequisite: COMP 3430 (C) and COMP 3010 (C).

COMP 4620 Professional Practice in Computer Science Cr. Hrs. 3

Background and rationale to view Computer Science in a professional context. Examination of professional ethics, intellectual property, and privacy considerations important to Computer Scientists. May not be held with the former COMP 3620. Prerequisite: COMP 3350 (C).

COMP 4690 Computer Systems and Architecture Cr. Hrs. 3

Investigation of today's modern computer architecture and system design concepts, including requirements, specifications, and implementation. Instruction sets, instruction-level parallelism, speculative execution, multi-threaded architectures, memory hierarchy, multiprocessors, storage design and implementation, and interconnection networks. Prerequisite: COMP 3370 (C).

COMP 4710 Introduction to Data Mining **Cr. Hrs. 3**

Introduction to data mining concepts and their applications. Prerequisite: COMP 3380 or consent of department.

COMP 4740 Advanced Databases **Cr. Hrs. 3**

Parallel, distributed, object-oriented, object-relational, and XML databases; other emerging database technologies. Prerequisite: COMP 3380 (C).

COMP 4980 Workterm 3 **Cr. Hrs. 0**

Work assignment in business, industry, or government for students registered in the Computer Science Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisite: COMP 3980 (P).

COMP 4990 Workterm 4 **Cr. Hrs. 0**

Work assignment in business, industry, or government for students registered in the Computer Science Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment (Pass/Fail). Prerequisite: COMP 4980 (P).

4.7 Genetics Program

Campus Address/General Office: 212 Biological Sciences Building

Telephone: 204 474 9245

Email Address: George.Hausner@umanitoba.ca

Jeffrey.Marcus@umanitoba.ca

Website: umanitoba.ca/science/biological_sciences

Program Coordinator: George Hausner, Associate Head, Department of Microbiology

Jeffrey Marcus, Department of Biological Sciences

4.7.1 Program Information

The Faculty of Science offers an interdisciplinary program leading to a B.Sc. (Honours) degree or B.Sc. Major in Genetics. Genetics is the science of heredity dealing with the mechanisms of inheritance and has generated concepts basic to modern biology. Three areas are represented in this program: classical genetics, population genetics, and molecular genetics. Courses from Arts, Agricultural and Food Sciences, and Medicine are included in this program.

Genetics Entry, Continuation, and Graduation Requirements

Honours

To enter the Honours program in Genetics, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in BIOL 1030, and a minimum grade of "C+" in CHEM 1310. STAT 1000, MATH 1500 and the additional 3 credit hours of specified Mathematics courses are program requirements and students are strongly encouraged to complete these courses in first year.

* Students interested in studying Genetics should note that Grade 12 mathematics and chemistry are prerequisite to CHEM 1300. Effective 2009-2010, students will also require Biology 40S (or equivalent) and any Grade

12 mathematics course (or equivalent) for entry to BIOL 1020 (the required prerequisite for BIOL 1030).

To continue in the Genetics Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must maintain a minimum 3.00 DGPA and achieve a minimum grade of "C" on all courses that make up the 120 credit hours of the degree.

Major

To enter the Major Degree program in Genetics, a student must have completed at least 24 credit hours with a minimum DGPA of 2.00, and also obtained a minimum grade of "C+" in BIOL 1030 and CHEM 1310. STAT 1000, MATH 1500 and the additional 3 credit hours of specified Mathematics courses are program requirements and students are strongly encouraged to complete these courses in first year.

* Students interested in studying Genetics should note that Grade 12 mathematics and chemistry are prerequisite to CHEM 1300. Effective 2009-2010, students will also require Biology 40S (or equivalent) and any Grade 12 mathematics course (or equivalent) for entry to BIOL 1020 (the required prerequisite for BIOL 1030).

To continue in the Genetics Major Degree program, students must maintain a minimum DGPA of 2.00.

To graduate with the Bachelor of Science (Major) in Genetics, a student must obtain passing grades on all courses, obtain a minimum DGPA of 2.00, and a minimum grade of C in all required and optional courses that contribute to the Major.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students are required to complete the first and second year requirements of the program and MBIO 3410 before beginning their first co-op work term.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students are required to complete the first and second year requirements of the program and MBIO 3410 before beginning their first co-op work term.

4.7.2 Genetics Program Charts

4.7.2 Genetics

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|----------|
| HONOURS⁴ 120 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 | BIOL 2500, BIOL 2520 | BIOL 3500 MBIO 3410 | |
| BIOL 1020, BIOL 1030 | CHEM 2210, CHEM 2220, CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370) | PLNT 3140 BGEN 3022, BGEN 3024 | |
| STAT 1000 or STAT 1150 | | BGEN 4010 ⁴ (6) or MBIO 4530 ⁴ (6) | |
| MATH 1500 ¹ | MBIO 1010, MBIO 2020 | One of: ANTH 2240, ANTH 2560, ANTH 2860, or ANTH 2890 | |
| One of: MATH 1200 ¹ , MATH 1300 ¹ , or MATH 1700 ¹ | STAT 2000 or STAT 2150 | 36 credit hours from list of optional courses (a minimum of 12 of these credit hours must be 4000 level) | |
| In Year 1 or Year 2: 3 credit hours from the Faculty of Arts | | | |
| 3 credit hour "W" course ² | | | |
| 6 credit hours of electives | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| HONOURS Co-operative Option^{3,4} 120 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 | BIOL 2500, BIOL 2520 | BIOL 3500 MBIO 3410 | |
| BIOL 1020, BIOL 1030 | CHEM 2210, CHEM 2220, CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370) | PLNT 3140 BGEN 3022, BGEN 3024 | |
| STAT 1000 or STAT 1150 | | One of: ANTH 2240, ANTH 2560, ANTH 2860, or ANTH 2890 | |
| MATH 1500 ¹ | MBIO 1010, MBIO 2020 | 42 credit hours from list of optional courses (a minimum of 18 of these credit hours must be 4000 level) | |
| One of: MATH 1200 ¹ , MATH 1300 ¹ , or MATH 1700 ¹ | STAT 2000 or STAT 2150 | | |
| In Year 1 or Year 2: 3 credit hours from the Faculty of Arts | | Work Terms: ^{3,4} | |
| 3 credit hour "W" course ² | | MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |
| 6 credit hours of electives | | | |

| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
|---|---|---|----------|
| FOUR YEAR MAJOR (Including Co-operative Option if selected)^{3,4} 120 CREDIT HOURS | | | |
| CHEM 1300, CHEM 1310 | BIOL 2500, BIOL 2520 | BIOL 3500 MBIO 3410 | |
| BIOL 1020, BIOL 1030 | CHEM 2210, CHEM 2220, CHEM 2360 (MBIO 2360), CHEM 2370 (MBIO 2370) | PLNT 3140 BGEN 3022, BGEN 3024 | |
| STAT 1000 or STAT 1150 | | One of: ANTH 2240, ANTH 2560, ANTH 2860, or ANTH 2890 | |
| MATH 1500 ¹ | MBIO 1010, MBIO 2020 | 33 credit hours from list of optional courses (a minimum of 15 of these credit hours must be 4000 level) | |
| One of: MATH 1200 ¹ , MATH 1300 ¹ , or MATH 1700 ¹ | STAT 2000 or STAT 2150 | 9 credit hours of approved elective courses | |
| In Year 1 or Year 2: 3 credit hours from the Faculty of Arts | | Work Terms (if Co-op Selected): ^{3,4} | |
| 3 credit hour "W" course ² | | MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |
| 6 credit hours of electives | | | |

NOTES:

1 MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1230, MATH 1510, or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700; MATH 1240 may be taken in place of MATH 1200.

2 As there are no electives in Year 2 of the program, students should complete the University written English requirement in Year 1. If not completed in Year 1, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.

3 IMPORTANT: Students in the co-operative program are advised to ensure that they are able to satisfy the prerequisites for all 3000 and 4000 level courses they plan to take.

4 MBIO 4530 and BGEN 4010 are required courses for students in Genetics Honours, but are not available to students in Co-operative Option, and require department consent for students in the Genetics Major.

(The number 6 in brackets indicates a 6 credit hour course.)

The optional courses are:

Biochemistry and Medical Genetics: BGEN 4010¹ (6)

Biological Sciences: BIOL 2410, BIOL 2420, BIOL 3290, BIOL 3300, BIOL 3400 (or PLNT 3400), BIOL 3542, BIOL 3560, BIOL 4500, BIOL 4510, BIOL 4540, BIOL 4542, BIOL 4560, BIOL 4650

Chemistry: CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 4360, CHEM 4370, CHEM 4620, CHEM 4630

Microbiology: MBIO 2420, MBIO 3000, MBIO 3010, MBIO 3030, MBIO 3430, MBIO 3450, MBIO 3460, MBIO 4010, MBIO 4020², MBIO 4410, MBIO 4530¹ (6), MBIO 4540, MBIO 4670 (or the former MBIO 4570), MBIO 4672², MBIO 4600, MBIO 4610

Computer Science: COMP 1010, COMP 1020, COMP 1500, COMP 1600

Physics: PHYS 1020, PHYS 1030, PHYS 1050, PHYS 1070

Animal Science: ANSC 3500, ANSC 4280

Pharmacology: PHAC 4030, PHAC 4040

Plant Science: PLNT 2530, PLNT 3400 (or BIOL 3400), PLNT 3520, PLNT 4330, PLNT 4610

By an appropriate selection of courses from this list, students can obtain particular program emphasis in either plant, human or molecular genetics.

The Honours Co-op program must contain a minimum of 18 credit hours of 4000 level courses as options in Years 3 and 4.

Other suitable optional courses may be arranged through consultation with the Genetics program committee.

NOTES:

1 MBIO 4530 (6) and BGEN 4010 (6) are project courses. A research project is chosen in consultation with the Microbiology department (MBIO 4530) or Biochemistry and Medical Genetics (BGEN 4010) and the Genetics program committee, and is supervised by a staff member. Only one of MBIO 4530 or BGEN 4010 may be selected in this program. These are required courses for students registered in the Genetics Honours program and may be available to students registered in the Genetics Major program by departmental consent.

2 MBIO 4020 and MBIO 4672 are not available options for students in the Genetics Honours Degree program.

4.8 Interdisciplinary Courses in Forensic Science and Science

FORS 2000 Title: Introductory Forensic Science Cr. Hrs. 3

Survey course which introduces forensic science via a series of guest lectures provided by experts from within the university and from the community (e.g., Winnipeg Police, RCMP, Chief Medical Examiner, etc.). Multidisciplinary topics will be covered including how a case is studied, use of scientific techniques in investigations, collection of evidence, the role of the expert witness, and presentation of evidence in court. Prerequisites: BIOL 1030 (C+), CHEM 1310 (C+).

FORS 3000 Title: Forensics Processing and Analysis Cr. Hrs.3

(Lab Required) Theory and practice of processing and analysis of various types of forensic evidence. Lectures will be given by experts from within the university and within the community. Topics covered in lecture and lab exercises include protocols to identify, document and protect visible and latent forensic scientific evidence, analytical methods with forensic applications, rules and procedures governing the collection of evidence and the use of scientific data in court. Prerequisite: FORS 2000.

SCI 1000 Title: Topics in Science 1 Cr. Hrs. 3

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. Non-science students should check with their department. Prerequisite: consent of the instructor. This course is a Topics course and may be completed multiple times under different titles.

SCI 2000 Title: Topics in Science 2 Cr. Hrs. 3

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. Non-science students should check with their department. Prerequisite: consent of the instructor. This course is a Topics course and may be completed multiple times under different titles.

SCI 3000 Title: Topics in Science 3 Cr. Hrs. 3

Topics of current interest in the Faculty of Science. Offerings will be based on the interests and requirements of students and faculty and will include interdisciplinary topics not available in regular course offerings. This course may be used to satisfy a Science elective. Non-science students should check with their department. Prerequisite: consent of the instructor. This course is a Topics course and may be completed multiple times under different titles.

SCI 3980 Title: Co-operative Education Work Term 1 Cr. Hrs.0

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Completion of co-op pre-employment workshops required. Final work term report required. Prerequisite: Written permission from the Faculty of Science Co-operative Education Office. (Pass/Fail grade only).

SCI 3990 Title: Co-operative Education Work Term 2 Cr. Hrs.0

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. Prerequisites: SCI 3980 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office. (Pass/Fail grade only).

SCI 4000 Title: Topics in Science 4 Cr. Hrs.3

This course may be used to satisfy a Science elective. Non-science students should check with their department. Prerequisite: consent of the instructor. This course is a Topics course and may be completed multiple times under different titles.

SCI 4980 Title: Co-operative Education Work Term 3 Cr. Hrs.0

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. Prerequisites: SCI 3990 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office. (Pass/Fail grade only).

SCI 4990 Title: Co-operative Education Work Term 4 Cr. Hrs 0

Supervised work experience with an approved employer for a minimum of 12 weeks full-time. Restricted to students admitted to the Honours or Major Co-operative Education Option in the Faculty of Science. Final work term report required. Prerequisites: SCI 4980 (P) or equivalent and written permission from the Faculty of Science Co-operative Education Office. (Pass/Fail grade only.)

4.9 Department of Mathematics

Head: (Acting Head) Julien Arino
 Campus Address/General Office: 342A Machray Hall
 Telephone: 204 474 8703
 Email Address: mathematics_dept@umanitoba.ca
 Website: <http://www.math.umanitoba.ca/>

4.9.1 Program Information

Mathematics provides the language, reasoning and analytic tools that many other disciplines use to investigate their areas. These include all the physical sciences, computer and engineering sciences, social sciences, and the biological and health sciences. A wide range of business, industrial, and government programs rely on mathematics to provide insight and analysis. Students may specialize in mathematics alone or in combinations with physics, computer science, economics, or statistics.

NOTE: Students entering either the Faculty of Arts or Science, and intending to take courses from the department, are strongly advised to speak to a Science Academic Advisor or a faculty advisor in the department concerning an appropriate choice of mathematics courses. They may also consult the Department of Mathematics website at umanitoba.ca/science/mathematics.

Honours Requirements

To enter the Honours program in Mathematics, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in either MATH 1232 or MATH 1690, or a minimum grade of "A" in MATH 1700.

To continue in the Mathematics Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must maintain a minimum 3.00 DGPA and achieve a minimum grade of "C" on all courses that make up the 120 credit hours of the degree.

List of Year 2 Mathematics electives (of which two are required for the core requirements): MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160, MATH 2170.

Students are encouraged to discuss potential electives with a department advisor.

Double Honours: A student may elect Honours in Mathematics and one other field, subject to the approval of both departments. The Mathematics prescription for a Double Honours program is as indicated in the table below.

Four Year Major Requirements

To enter the four year Major in Mathematics, a student must have a "C+" in either MATH 1232 or MATH 1690 or a minimum grade of "B" in MATH 1700, and have satisfied all Faculty requirements for entry to the program.

To continue in the Mathematics Major degree program students must maintain a minimum DGPA of 2.00.

To graduate with the B. Sc. Major degree, a student must achieve a minimum DGPA of 2.00, and a minimum grade of "C" in each of the Major Program Specific courses (see below).

Major Program Specific Courses

MATH 1220, MATH 1230, MATH 1232, MATH 1240, MATH 2020, MATH 2030, MATH 2080, MATH 2090, MATH 2150, MATH 2160, MATH 2180,

MATH 3320, MATH 3322, MATH 3340, MATH 3360, MATH 3390, MATH 3440, MATH 3460.

List of Year 2 Mathematics Electives (of which two are required for the core requirements): MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160, MATH 2170.

Other electives can be chosen.

Four Year Major in Applied Mathematics with Option (Computer Science, Economics, Statistics)

These programs provide a sound general knowledge of applied mathematics together with a significant number of courses in the option area. Courses in the Computer Science option provide training in aspects of computer science which are most useful to the practicing mathematician. Courses in the Computer Sciences, Economics, and Statistics options are fundamental to each area and provide a strong, mathematical basis for further study.

To enter the four year Major in Applied Mathematics with one of the above three options, a student must have a "C+" in either MATH 1232 or MATH 1690 or a minimum grade of "B" in MATH 1700, and have satisfied all faculty requirements for entry to the program.

To continue in the Applied Mathematics Major degree programs, students must maintain a minimum DGPA of 2.00.

To graduate with the B. Sc. Major degree, a student must achieve a minimum DGPA of 2.00, and a minimum grade of "C" in each of the Major Program Specific courses (see below).

Applied Mathematics Major Program Specific Courses

MATH 1220, MATH 1230, MATH 1232, MATH 1240, MATH 2070, MATH 2080, MATH 2090, MATH 2140, MATH 2150, MATH 2160, MATH 2180, MATH 3340, MATH 3420, MATH 3440, MATH 3460 and MATH 3470.

It is recommended that students take all 12 credit hours of 1000 level mathematics courses in their initial 30 credit hours; however, students should take at least MATH 1230, MATH 1232 and MATH 1220. See the individual charts below for additional requirements for each option.

Options List: MATH 2030, MATH 2040, MATH 2170, or any 3000/4000 level MATH course.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students will need to have completed MATH 2020, MATH 2080, MATH 2090, MATH 2150 and MATH 2180 (or their equivalents as approved by the department of Mathematics) before entrance into the Co-op Program. Students who plan on, or are required to, take MATH 3470 and MATH 3472 are recommended to take these in the Fall and Winter (respectively) of Year 3 (similarly with MATH 3320 and MATH 3322).

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students will need to have completed MATH 2020, MATH 2080, MATH 2090, MATH 2150 and MATH 2180 (or their equivalents as approved by the department of Mathematics) before entrance into the Co-op Program. Students who plan on, or are required to, take MATH 3470 and MATH 3472 are recommended to take these in the Fall and Winter (respectively) of Year 3 (similarly with MATH 3320 and MATH 3322).

Three Year General

As prescribed with all other faculty regulations in Section 3.2, students in this program must select 18 credit hours of 2000, 3000, and (or) 4000 level courses from each of **two** Science areas. To satisfy the requirement in the area of Mathematics, students must select a minimum of 18 credit hours of 2000, 3000, and (or) 4000 level Mathematics courses (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level).

See a Science Academic Advisor or a Faculty Advisor in the department for information regarding entry to or completion of any of the programs outlined.

4.9.2.1 Mathematics Honours Program Chart

| 4.9.2.1 Mathematics | | | |
|---|--|--|--------|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| MATHEMATICS HONOURS (including Co-operative Option) 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH | MATH 2020, MATH 2080, MATH 2090, | 36 credit hours Mathematics courses, which must include the following: | |

| | | | |
|--|---|--|----------|
| 1232 ¹ , MATH 1240 | MATH 2150, MATH 2180 6 credit hours from the following list: MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160 ² , MATH 2170 | MATH 3320, MATH 3340, MATH 3390, MATH 3440, MATH 3470, MATH 3472; And one of the two concentrations listed below: Applied and Computational Mathematics Concentration: MATH 3420, MATH 3460, MATH 4370; and additional 9 credit hours to be chosen from: MATH 3322, MATH 3330, MATH 4280, MATH 4320 ³ , MATH 4330 ³ , MATH 4380 ³ , MATH 4390 ³ , MATH 4440, MATH 4460 ³ Pure Mathematics Concentration: MATH 3322, one of (MATH 3410 ³ or MATH 3480 ³), MATH 4260, and one of (MATH 4300 ³ or MATH 4340 ³ or MATH 4360 ³); and an additional 6 credit hours to be chosen from: MATH 3360, MATH 4240 ³ , MATH 4270, MATH 4280, MATH 4290, MATH 4450, MATH 4470 ³ | |
| STAT 1150 ¹ , COMP 1010 ¹ | | | |
| The following must be completed in Year 1 or Year 2: 6 credit hours from the Faculty of Arts, which should include the required "W" course. | | 12 credit hours of electives from: MATH 2030, MATH 2070, MATH 2160, MATH 2170 (if not taken as a required 2nd year elective) and all Year 3 and 4 mathematics courses | |
| 15 credit hours of electives | | 12 credit hours of approved (not necessarily mathematics) | |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of

MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) or MATH 1710 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150. COMP 1012 may be used in lieu of COMP 1010.

2 Department strongly recommends choosing MATH 2160 as one of the electives in Year 2.

3 These courses may not be offered every year, but are usually offered once every second year. Please refer to Aurora Student for courses offered in the current year and to the website of the Department of Mathematics for the planned schedule of future course offerings.

4.9.2.2 Mathematics Double Honours Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--|
| MATHEMATICS HONOURS DOUBLE (including Co-operative Option) MINIMUM 120 CREDIT HOURS (comprising courses listed in chart below, and the required courses from the other department) | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 STAT 1150 ¹ COMP 1010 ¹ Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course | MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 6 credit hours from the following list: MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160, MATH 2170 | MATH 3320, MATH 3340, MATH 3390, MATH 3440, MATH 3470, MATH 3472 | 15 credit hours from: MATH 2030, MATH 2070, MATH 2160, MATH 2170 (if not taken as a required 2nd year elective); and all Year 3 and 4 mathematics courses of which at least 9 credit hours must be 4000 level. |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) or MATH 1710 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission of the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150. COMP 1012 may be used in lieu of COMP 1010.

4.9.2.3 MATHEMATICS FOUR YEAR MAJOR Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|--------|
| MATHEMATICS FOUR YEAR MAJOR (including Co-operative Option) 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 6 credit hours from the following: MATH 2030, MATH 2040, MATH 2070, MATH 2140, MATH 2160, MATH 2170 | A total of 48 credit hours from MATH 2030, MATH 2070, MATH 2160, MATH 2170 and any 3000/4000 level Mathematics courses, which must include: MATH 2030 (if not already taken as Year 2 elective), MATH 2160 (if not already taken as Year 2 elective), MATH 3320, MATH 3322, MATH 3340, MATH 3360, MATH 3390, MATH 3440, MATH 3460 | |
| STAT 1150 ¹ , COMP 1010 ¹ 15 credit hours of approved electives The following must be completed in Year 1 or Year 2: 6 credit hours from the Faculty of Arts, which should include the required "W" course. | | 12 credit hours of approved electives Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (B) in place of MATH 1220, MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230, MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232, MATH 1690 (C+) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150. COMP 1012 may be used in lieu of COMP 1010.

4.9.2.4 Applied Mathematics with Computer Science Option Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|---|---|--------|
| APPLIED MATHEMATICS FOUR YEAR MAJOR with COMPUTER SCIENCE OPTION (including Co-operative Option) 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | MATH 2080, MATH 2090, MATH 2150, MATH 2160, MATH 2180 | MATH 2070, MATH 2140, MATH 3340, MATH 3420, MATH 3440, MATH 3460, MATH 3470 | |

| | | |
|---|--|---|
| COMP 1010 ¹ , COMP 1020 | COMP 2140 | |
| 6 credit hours from the Faculty of Arts, which should include the required "W" course 6 credit hours of approved electives | <p>STAT 1150¹ and STAT 2150</p> <p>9 credit hours chosen from:</p> <p>MATH 2030, MATH 2040, MATH 2170, or any 3000/4000 level MATH course</p> <p>One of the following patterns (9 credit hours):</p> <p>Graphics: COMP 2190, COMP 3490, COMP 4490</p> <p>Software: COMP 2150, COMP 2160; and one of: COMP 3380, COMP 3440 or COMP 3020</p> <p>Theoretical Computer Science: COMP 2080, and two of: COMP 3030, COMP 3170, COMP 3820 or COMP 4420</p> <p>Hardware: COMP 2160, COMP 2280; and one of: COMP 3370 or COMP 3430</p> <p>Artificial Intelligence: COMP 3190; and two of: COMP 4180, COMP 4190, COMP 4200, COMP 4360</p> | |
| | 27 credit hours of electives taken during years 2, 3 and 4 | |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (B) in place of MATH 1220, MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230, MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232, MATH 1690 (C+) in place of MATH 1230 and MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150. COMP 1012 may be used in lieu of COMP 1010.

4.9.2.5 Applied Mathematics with Economics Option Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|--|--------|
| APPLIED MATHEMATICS FOUR YEAR MAJOR with ECONOMICS (including Co-operative Option) OPTION 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | MATH 2080, MATH 2090, MATH 2150, MATH 2160, MATH 2180 | MATH 2070, MATH 2140, MATH 3340, MATH 3420, MATH 3440, MATH 3460, MATH 3470, MATH 4370 | |
| ECON 1010 and ECON 1020 (or ECON | | | |

| | | |
|--|---|---|
| 1210 and ECON 1220) | | |
| 9 credit hours of electives | <p>STAT 1150¹, STAT 2150 COMP 1010¹</p> <p>ECON 2030, ECON 3030</p> <p>6 credit hours from:</p> <p>MATH 2030, MATH 2040, MATH 2170, or any 3000/4000 level MATH course</p> <p>6 credit hours from:</p> <p>ECON 2010, ECON 2020, ECON 3010 and ECON 3020</p> | |
| | 24 credit hours of approved electives taken during years 2, 3 and 4 | |
| 3 credit hour "W" course must be taken in Year 1 or Year 2 | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (B) in place of MATH 1220, MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230, MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232, MATH 1690 (C+) in place of MATH 1230 and MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150. COMP 1012 may be used in place of COMP 1010.

4.9.2.6 Applied Mathematics with Statistics Option Program Chart

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|---|---|
| APPLIED MATHEMATICS FOUR YEAR MAJOR with STATISTICS OPTION (including Co-operative Option) 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | MATH 2080, MATH 2090, MATH 2150, MATH 2160, MATH 2180 STAT 2150 | MATH 2070, MATH 2140, MATH 3340, MATH 3420, MATH 3440, MATH 3460, MATH 3470 | STAT 2400, STAT 3400, STAT 3470, STAT 3480, STAT 3800 |
| STAT 1150 ¹ | | | |
| 6 credit hours from the Faculty of Arts, which should include the required "W" course | <p>COMP 1010¹</p> <p>9 credit hours from:</p> <p>MATH 2030, MATH 2040, MATH 2170, or any 3000/4000 level MATH course</p> <p>6 credit hours of 3000 or 4000 level Statistics courses</p> | | |

| | |
|-----------------------------|---|
| 9 credit hours of electives | 18 credit hours of approved electives taken during years 2, 3 and 4 |
| | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (B) in place of MATH 1220, MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230, MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232, MATH 1690 (C+) in place of MATH 1230 and MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150. COMP 1012 may be used in place of COMP 1010.

4.9.2.7 Mathematics General Degree and Minor Requirements

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|--|--------|--------|
| THREE YEAR GENERAL 90 CREDIT HOURS | | | |
| <u>MATH 1220¹</u> , <u>MATH 1230¹</u> , <u>MATH 1232¹</u> , <u>MATH 1240</u> | 18 credit hours of 2000, 3000, and (or) 4000 level Mathematics courses (subject to the Faculty requirement that of the 36 credit hours to be completed in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level). | | |
| MINOR | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , plus a minimum of 9 credit hours from MATH 1240 ¹ and 2000 and (or) 3000 level Mathematics courses. | | | |

NOTES:

1 MATH 1500 or MATH 1510 may be taken in place of MATH 1230; MATH 1300 may be taken in place of MATH 1220; MATH 1700 or MATH 1710 may be taken in place of MATH 1232. MATH 1200 may be taken in place of MATH 1240, but these courses are not equivalent. i.e. students should note that MATH 1240 is a prerequisite to some 2nd year mathematics courses of which MATH 1200 is not a prerequisite.

4.9.2.8 Mathematics – Physics and Astronomy Joint Honours Program

Honours Requirements

To enter the Joint Honours Mathematics – Physics Honours program the student must have a minimum grade of "B" in: MATH 1232 or MATH 1690 (or a minimum grade of "A" in MATH 1700), PHYS 1050 (or "B+" in PHYS 1020) and PHYS 1070 (or "B+" in PHYS 1030).

To continue in the Honours program, students must maintain a minimum DGPA of 3.00, complete a minimum of 9 credit hours each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and a minimum grade of "C+" in each of the Honours Program Specific courses⁶, and a minimum grade of "C" on all remaining courses that contribute to the 120 credit hours of the degree.

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--|--|--|--|
| JOINT HONOURS 120 CREDIT HOURS | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ (B), MATH 1240 | PHYS 2260 or PHYS 2610, PHYS 2386, PHYS 2600, PHYS 2650 ³ 3 credit hours of Physics | MATH 3340, MATH 3440, MATH 3460, MATH 3470, MATH 3472 | MATH 3320, MATH 3322, 3 credit hours of 4000 level Math PHYS 3430 (6), PHYS 4680 ⁵ |
| PHYS 1050 (B) (or PHYS 1020 (B+)) ² and PHYS 1070 (B) (or PHYS 1030 (B+)) | MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 | 3 credit hours from 3000 and 4000 level Physics Honours courses | 6 credit hours from the Department of Mathematics or the Department of Physics & Astronomy: MATH 2030, MATH 2070, MATH 2160, MATH 2170, or any 3000 or 4000 level Mathematics or Physics courses |
| STAT 1150 ⁷ | | | 6 credit hours of electives |
| COMP 1012 | | | |
| 6 credit hours from the Faculty of Arts, which should include the required "W" course ⁴ | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

¹ Students are strongly advised to take MATH 1220, MATH 1230 and MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) or MATH 1710 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150.

² Students are advised to take PHYS 1050 and PHYS 1070.

³ The corequisite or prerequisite of PHYS 2496 is waived for students in this program. It is recommended that students audit PHYS 2496 in second year and PHYS 3496 in third year.

⁴ As there are no electives in Year 2 of the program, students should complete the university written English requirement in Year 1. If not completed in Year 1, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.

⁵ The pre-or corequisite of PHYS 3496 is waived for students in this program. It is recommended that students audit PHYS 2496 in second year and PHYS 3496 in third year.

⁶ The Honours Program Specific courses consists of all the Physics and Astronomy courses listed in the program chart, with the exception of PHYS 1020, PHYS 1050, PHYS 1030 and PHYS 1070.

⁷ Students may take STAT 1000 and STAT 2000 in lieu of STAT 1150.

(Letters in brackets indicate minimum prerequisite standing for further study. The number 6 in brackets indicates a 6 credit hour course.)

MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) or MATH 1710 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH 1230 and MATH 1232. With permission from the department, students may be able to substitute STAT 1000 and STAT 2000 in place of STAT 1150.

2 Some courses may be taken in a different year than indicated; STAT 1150, COMP 1010, ECON 3040 may be taken in Year 2. The normal prerequisite for ECON 3040 is ECON 2040 (or the former ECON 3170), which will be waived for students in this program who have completed Year 1.

3 Of the 24 credit hours in electives in Economics in Years 3 and 4, no more than 6 credit hours may be at the 2000 level or below and at least 6 credit hours must be at the 4000 level. Students are encouraged to take ECON 4010, ECON 4020 and ECON 4040.

4.9.2.9 Mathematics – Economics Joint Honours Program

The Department of Mathematics along with the Department of Economics (Faculty of Arts) offer a joint Honours program for students wishing in depth study in Mathematics and Economics. For Economics course listings, refer to the Faculty of Arts chapter in the Calendar.

To enter the Joint Honours Mathematics - Economics program, the student must have a minimum grade of "B" in: ECON 1010 and ECON 1020 (or ECON 1210 and ECON 1220), either MATH 1232 or MATH 1690 (or a minimum grade of "A" in MATH 1700) and have satisfied the Faculty of Science requirements for entry to the honours program.

| | | | |
|--------|--------|--------|--------|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--------|--------|--------|--------|

JOINT HONOURS 120 CREDIT HOURS

| | | | |
|--|---|--|----------|
| Both ECON 1010, ECON 1020, or both ECON 1210 and ECON 1220 | ECON 2010, ECON 2020 | ECON 3010, ECON 3020, ECON 3040 ³ | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2180 | MATH 2030, MATH 2160, MATH 3320, MATH 3340, MATH 3440, MATH 3470. MATH 3472 | |
| STAT 1150 ^{1,2} | | 24 credit hours of approved Economics courses ³ | |
| COMP 1010 ² | | 3 credit hours from MATH 2140, MATH 3420, MATH 3460, MATH 4370, or any Mathematics course at the 4000 level. | |
| 6 credit hours of electives, including the required "W" course. | 9 credit hours of approved electives | 3 credit hours of Mathematics courses at the 3000 or 4000 level. | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:
1 Students are strongly advised to take MATH 1220, MATH 1230 and

4.9.2.10 Mathematics - Computer Science Joint Honours Program

Mathematics - Computer Science Joint Honours Program (Including Co-op if selected) - [see 4.6.3 Computer Science - Mathematics Joint Honours Program](#)

4.9.2.11 Mathematics - Statistics Joint Honours Program

Mathematics - Statistics Joint Honours Program - [see 4.13.5 Statistics - Mathematics Joint Honours Program](#)

4.9.3 Mathematics Course Descriptions-0 Level

MATH 0500 Preparing for University Mathematics Cr. Hrs. 0

A voluntary non-credit mathematics course for students, holding credit in Pre-Calculus 40S or Applied Mathematics 40S or equivalent, who would benefit from improving their knowledge and skills concerning topics included in the Manitoba secondary school mathematics curriculum.

This course may be taken prior to or concurrently with MATH 1200, 1210, 1300, 1310, 1500, 1510, 1520, 1700, 1710 or 1690. Students participating in this course should purchase the set of notes "Preparing for University Mathematics" from the University of Manitoba Bookstore.

Prerequisite: a grade of 60% in Pre-Calculus 40S, 70% in Applied Mathematics 40S or a grade of 60% or better in the Math Skills course offered by Extended Education. (NOTE: The fee for this course is non-refundable upon withdrawal).

4.9.3 Mathematics Course Descriptions-1000 Level

MATH 1010 Applied Finite Mathematics Cr. Hrs. 3

(Lab Required) For students needing to fill the requirement of a university level mathematics course. Introduces students to modern applications of discrete mathematics. Topics include: mathematics of finance, linear programming, graph theory, and game theory. This is a terminal course and may not be used as a prerequisite for other Mathematics courses. This course cannot be used as part of an Honours, Major, General or Minor program in the mathematical sciences. Not available to any student already holding a grade of "C" or better in any Mathematics course with the exception of MATH 1020, FA 1020, the former MATH 1190 or MATH 1191. Not to be taken concurrently with any other Mathematics course with the exception of MATH 1020, FA 1020 or MATH 1191. No prerequisite.

MATH 1020 Mathematics in Art Cr. Hrs. 3

Specific theory, structuring systems, and mathematical methods and principles used in works of art from various historical periods and contexts will be explored in relation to Euclidean and non-Euclidean geometries. Topics include: linear perspective; shapes, patterns, balance and symmetry; ratio, proportion and harmony; and order, dynamics, and chaos. The course will be one half art and one half mathematics, team-taught by faculty from the School of Art and the Department of Mathematics. This course is also given in the School of Art as FA 1020. This is a terminal course and may not be used as a prerequisite for other Mathematics courses. This course cannot be used as part of an Honours, Major, General or Minor program in the mathematical sciences. Not available to any student already holding a grade of "C" or better in any Mathematics course with the exception of MATH 1010, the former MATH 1190, or MATH 1191. Not to be taken concurrently with any other Mathematics course with the exception of MATH 1010 or MATH 1191. No prerequisite.

MATH 1080 Fundamentals of Mathematical Reasoning Cr. Hrs. 3

(Lab required) Logic, reasoning, problem solving, introduction to set theory, mathematical induction, introduction to number theory, bases of arithmetic and the standard algorithms, working with fractions and functions. The course is recommended for students intending to become early or middle years school teachers. This course cannot be used as part of an Honours, Major, General or Minor program in the mathematical sciences. Prerequisite: Pre-Calculus Mathematics 40S or the former Mathematics 40S (300) or a minimum grade of 65% in Applied Mathematics 40S or a grade of "C" or better in MSKL 100 offered by Extended Education.

MATH 1090 Mathematical Reasoning in Euclidean Geometry Cr. Hrs. 3

(Lab required) Introduction to Euclidean geometry with emphasis on mathematical reasoning. Perimeter, area, volume, triangle congruence, parallel lines and quadrilaterals, similarity, circles, coordinate geometry or transformation geometry. The course is recommended for students intending to become early or middle years school teachers. This course cannot be used as part of an Honours, Major, General or Minor program in the mathematical sciences. Prerequisite: MATH 1080.

MATH 1200 Elements of Discrete Mathematics Cr. Hrs. 3

(Lab Required) Sequences and series, trigonometry, complex numbers, algebra of polynomials, approximation of zeros of functions, linear difference equations. Not to be held with MATH 1210, MATH 1211 or MATH 1201. Not available to any student holding credit in any Mathematics course numbered 2000 or higher, unless MATH 1200 is a required course in a student's program. Prerequisite: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a grade of 60% or better in the MSKL 100 offered by Extended Education.

MATH 1210 Techniques of Classical and Linear Algebra Cr. Hrs. 3

(Lab Required) To introduce a variety of practical algebraic concepts and skills necessary for the study of calculus and advanced engineering mathematics. The emphasis of this course is in the development of methodology and algebraic skill necessary for successful completion of subsequent engineering mathematics courses. This course is intended for Engineering and Geophysics students only. May not be held with MATH 1200, MATH 1201, MATH 1211, MATH 1220, MATH 1300, MATH 1301, or MATH 1310. Prerequisites: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a grade of "C" or better in the MSKL 100 offered by Extended Education.

MATH 1220 Linear Algebra 1 Cr. Hrs. 3

(Lab required) This course is intended for students in mathematically rich disciplines including those planning to enter an Honours or Major program in Mathematics or Statistics. An introduction to vectors, matrices, systems

of linear equations and three-dimensional geometry. May not be held with MATH 1210, MATH 1211, MATH 1300, MATH 1301, MATH 1310, or the former MATH 1680. Prerequisite: Pre-calculus Mathematics 40S (70%) or the former Mathematics 40S (300) (70%), or the MSKL 100 offered Extended Education (B).

MATH 1230 Differential Calculus Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines including those planning to enter an Honours or Major program in Mathematics or Statistics. Rigorous treatment of limits, continuity, and differentiation (with epsilon-delta proofs), applications in optimization problems, related rates, l'Hopital's rule, curve sketching, Taylor polynomials. Not to be held with MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1680, or MATH 1690. Prerequisite: Pre-calculus Mathematics 40S (70%) or the former Mathematics 40S (300) (70%), or the MSKL 100 offered by Extended Education (B).

MATH 1232 Integral Calculus Cr. Hrs. 3

(Lab required) This course is intended for students in mathematically rich disciplines including those planning to enter an Honours or Major program in Mathematics or Statistics. Integral calculus: theory and techniques of integration, curve sketching (parametric and polar), volume, arc length, surface area and partial derivatives. Sequences and series. Not to be held with MATH 1690, MATH 1700, MATH 1701, MATH 1710. Prerequisite: MATH 1230 (C) or MATH 1500 (B) or MATH 1501 (B) or MATH 1510 (B).

MATH 1240 Elementary Discrete Mathematics Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines including those planning to enter an Honours or Major program in Mathematics or Statistics. An introduction to Discrete Mathematics. Topics include mathematical induction, modular arithmetic, Boolean algebras, basic sentential logic, elementary set theory and functional notation, partial orders, basic graph theory, basic counting. May not be held with MATH 1241 or MATH 3120. Prerequisite: Pre-calculus Mathematics 40S (60%) or the former Mathematics 40S (300) (60%), or the MSKL 100 offered by Extended Education (C).

MATH 1300 Vector Geometry and Linear Algebra Cr. Hrs. 3

(Lab Required) An introduction to vectors, matrices, systems of linear equations and three-dimensional geometry. May not be held for credit with MATH 1210, MATH 1211, MATH 1220, MATH 1310, MATH 1301, or the former MATH 1680. Prerequisite: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a grade of "C" or better in the MSKL 100 offered by Extended Education. NOTE: A minimum grade of 70% in Applied Mathematics 40S may be used as a prerequisite to this course.

MATH 1310 Matrices for Management and Social Sciences Cr. Hrs. 3

(Lab Required) Matrix methods with examples relevant to the Management and Social Sciences. Topics include vectors, matrices, systems of linear equations, and determinants; applications include economic models, the simplex method for linear programming, Markov chains, and game theory. May not be held with MATH 1210, MATH 1211, MATH 1220, MATH 1300, MATH 1301, or the former MATH 1680. Prerequisite: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a grade of "C" or better in the MSKL 100 offered by Extended Education. NOTE: A minimum grade of 70% in Applied Mathematics 40S may be used as a prerequisite to this course.

MATH 1500 Introduction to Calculus Cr. Hrs. 3

(Lab Required) Differentiation and integration of elementary functions, with applications to maxima and minima, rates of change, area, and volume. May not be held with MATH 1230, MATH 1501, MATH 1510, MATH 1520, the former MATH 1680, or MATH 1690. Prerequisite: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a grade of "C" or better in the MSKL 100 offered by Extended Education.

MATH 1510 Applied Calculus 1 Cr. Hrs. 3

(Lab Required) Functions and graphs; limits and continuity; differentiation of functions defined explicitly, implicitly and parametrically; applications of derivatives to velocity and acceleration, related rates, maxima and minima; differentials, indefinite and definite integrals, application of integration to area. Physical applications in this course make it especially suitable for students intending to take programs in engineering. May not be held with MATH 1230, MATH 1500, MATH 1501, MATH 1520, the former MATH 1530, the former MATH 1680, or MATH 1690. Prerequisites: (a grade of 60% in one of Pre-calculus Mathematics 40S, or the former Mathematics 40S (300), or a grade of "C" or better in the MSKL 0100 offered by Extended Education) and (one of Physics 40S (300), PHYS 0900 (P), or PSKL 0100 (P) offered by Extended Education).

MATH 1520 Introductory Calculus for Management and Social Sciences Cr. Hrs. 3

(Lab Required) Differentiation and integration of functions of one variable and partial differentiation of functions of several variables. Emphasizes applications in the areas of management and social science. May not be held with MATH 1230, MATH 1500, MATH 1501, MATH 1510, the former MATH 1680, or MATH 1690. Prerequisite: a minimum grade of 60% in Pre-calculus Mathematics 40S or the former Mathematics 40S (300), or a minimum grade of "C" in the MSKL 100 offered by Extended Education.

MATH 1690 Calculus Cr. Hrs. 6

(Lab Required) An introduction to the calculus of functions of one variable. This course covers the same material as MATH 1500 and MATH 1700 together, but in greater depth. Exposure to high school calculus (45S) is desirable, but not essential. This course is intended for students planning to enter an Honours or 4 year Major program in Mathematics. May not be held with MATH 1230, MATH 1232, MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1680, MATH 1700, MATH 1701, MATH 1710. Prerequisite: a minimum grade of 80 % in Pre-calculus Mathematics 40S or the former Mathematics 40S (300).

MATH 1700 Calculus 2 Cr. Hrs. 3

(Lab Required) Theory and techniques of integration, curve sketching, volume, arc length, surface area and partial derivatives. May not be held with MATH 1232, MATH 1690, MATH 1701, MATH 1710. Prerequisite: A grade of "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, or the former MATH 1680.

MATH 1710 Applied Calculus 2 Cr. Hrs. 3

(Lab Required) Applications of integration to volumes, centres of mass, moments of inertia, work and fluid pressure; differentiation of trigonometric, inverse trigonometric, exponential, and logarithmic functions; techniques of integration; polar coordinates. Physical applications in this course make it especially suitable for students intending to take programs in engineering. May not be held with MATH 1232, MATH 1690, MATH 1700, MATH 1701. Prerequisite: A grade of "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, or the former MATH 1680. Prerequisite or concurrent Requirement: PHYS 1050 or PHYS 1051.

4.9.3 Mathematics Course Descriptions-2000 Level

MATH 2020 Algebra 1 Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines. Groups, rings, fields: elementary concepts and examples. May not be held with MATH 2021 or the former MATH 3350. Prerequisite: MATH 2090 or MATH 2091 (C) or the former MATH 2352 (C) or the former MATH 2300 (B) or MATH 2301 (B).

MATH 2030 Combinatorics 1 Cr. Hrs. 3

(Lab required) Introductory combinatorics, including basic counting, permutations and combinations, enumeration, inclusion-exclusion, pigeonhole principle, solving basic recursions, relations, and derangements. May not be held with MATH 2031 or the former MATH 3400. Prerequisites: MATH 1240 (C) or MATH 1241 (C) or [the former MATH 2202 (C) and one of the former MATH 2350 or the former MATH 2352 (C)] or consent of instructor.

MATH 2040 Curves and Surfaces Cr. Hrs. 3

(Lab required) Curves and surfaces in the plane and space. Intrinsic geometry of curves and surfaces: Serret Frenet frames, first and second fundamental forms, curvature and the Gauss map. Geodesics and parallel transport. Theorema Egregium and Gauss-Bonnet theorems. Prerequisites: [MATH 1232 (C) or MATH 1690 (C) or MATH 1700 (B) or MATH 1701 (B) or MATH 1710 (B)] and [MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B)]; or consent of instructor. Pre-or corequisite: MATH 2150 or MATH 2151 or MATH 2720 or MATH 2721.

MATH 2070 Graph Theory 1 Cr. Hrs. 3

(Lab required) Introduction to graphs, digraphs, and multigraphs. Topics include trees, cycles and circuits, planarity, basic graph algorithms, and applications of graph theory to social and physical sciences. May not be held with MATH 2071 or the former MATH 2400 or COMP 4340. Prerequisites: [MATH 1240 (C) or MATH 1241 (C)] and [MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B)].

MATH 2080 Introduction to Analysis Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines. Fundamental properties of the real number system as a complete ordered field, Archimedean property, existence of square roots, density of rational numbers, uncountability of real numbers. Sequences, subsequences, limit theorems, monotonicity, Bolzano-Weierstrass theorem, Cauchy sequences. Rigorous treatment of limits and continuity of functions of one and several variables. Uniform continuity. Applications. May not be held with MATH 2081 or the former MATH 2202. Prerequisites: [MATH 1232 (C) or MATH 1690 (C) or MATH 1700 (B) or MATH 1701 (B) or MATH 1710 (B)] and [MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B)] and [MATH 1240 (C) or MATH 1241 (C)].

MATH 2090 Linear Algebra 2 Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines. Abstract vector spaces, linear transformations, bases and coordinatization, matrix representations, orthogonalization, diagonalization, principal axis theorem. May not be held with MATH 2091 or the former MATH 2300 or the former MATH 2301 or the former MATH 2350 or the former MATH 2352. Prerequisite: MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B).

MATH 2120 Introductory Numerical Methods for Engineers Cr. Hrs. 4

(Lab Required) Numerical methods applied to problems in engineering; roots of nonlinear equations and systems of linear equations, numerical differentiation and integration, initial-value problems. For Engineering and Geophysics students only. May not be held with MATH 2600 or MATH 2601.

Prerequisites: one of COMP 1010, COMP 1011, COMP 1012, COMP 1013 (C); pre- or corequisite: MATH 2132 or the former MATH 2100 (C).

MATH 2130 Engineering Mathematical Analysis 1 Cr. Hrs. 3

(Lab required) Multivariable differential and integral calculus up to and including multiple integrals in cylindrical and spherical coordinates. For Engineering and Geophysics students only. May not be held for credit with MATH 2720, MATH 2750, or the former MATH 2110. Prerequisites: MATH 1210 or MATH 1211 and MATH 1710 (C).

MATH 2132 Engineering Mathematical Analysis 2 Cr. Hrs. 3

(Lab required) Infinite series, Taylor and Maclaurin Series; ordinary differential equations including Laplace transforms. For Engineering and Geophysics students only. May not be held for credit with MATH 2800, MATH 2730, or the former MATH 2100. Prerequisites: MATH 1210 (C) or MATH 1211 (C), and MATH 1710 (C).

MATH 2140 Modelling Cr. Hrs. 3

(Lab required) Introductory course on the design and analysis of mathematical models for real-life phenomena arising in the natural, engineering and social sciences. May not be held with the former MATH 3820 or the former MATH 3821. Prerequisite: MATH 1230 (C+) or MATH 1690 (C+) or MATH 1500 (B) or MATH 1501 (B) or MATH 1510 (B) or MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B) or consent of instructor.

MATH 2150 Multivariable Calculus Cr. Hrs. 3

(Lab required) The course is intended for students in mathematically rich disciplines. Parametric curves, arc length and curvature. Functions of several variables. Level curves. Partial derivatives, gradient, divergence and curl. Max/min problems. Double and triple integrals, line and surface integrals of functions and vector fields, and applications. Green's, Stokes, and divergence theorems. May not be held with MATH 2130, MATH 2151, MATH 2720, MATH 2721, or the former MATH 2750. Prerequisite: MATH 2080 (C) or MATH 2081 (C) or the former MATH 2202 (C).

MATH 2160 Numerical Analysis 1 Cr. Hrs. 3

(Lab required) Elementary techniques of numerical solution of mathematical problems: solution of equations, linear systems of equations, nonlinear equations; finite and divided differences, interpolation; numerical differentiation and integration. May not be held with MATH 2120, MATH 2161, the former MATH 2600, or the former MATH 2601. Prerequisites: [MATH 1232 (C) or MATH 1690 (C) or MATH 1700 (B) or MATH 1701 (B) or MATH 1710 (B)] and [MATH 1220 (C) or MATH 1300 (B) or MATH 1301 (B)].

MATH 2170 Number Theory 1 Cr. Hrs. 3

(Lab required) Prime numbers, unique factorization, linear congruences, Chinese remainder theorem, multiplicative functions, primitive roots and quadratic reciprocity. May not be held with the former MATH 2500 or the former MATH 2501. Prerequisite: MATH 2090 or MATH 2091 or [(the former MATH 2350 (C) or the former MATH 2352 (C) or the former MATH 2300 (B) or the former MATH 2301 (B)) and consent of instructor].

MATH 2180 Real Analysis 1 Cr. Hrs. 3

(Lab required) Introduction to metric spaces including connectedness, compactness and continuity; topics in infinite series of numbers, and sequences and series of functions. May not be held with the former MATH 3230. Prerequisite: MATH 2080 (C) or MATH 2081 (C) or the former MATH 2202 (C).

MATH 2720 Multivariable Calculus Cr. Hrs. 3

Calculus of several variables. For students in one of the following programs: Actuarial Mathematics, Statistics (honours or majors), Physics (honours or majors) Geophysics (honours or majors), and Physical Geography. May not be held with the former MATH 2750, the former MATH 2110, MATH 2130, MATH 2150, MATH 2151 or MATH 2721. Prerequisites: (One of MATH 1220, MATH 1300, MATH 1301, or MATH 1310) and (one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710, or the former MATH 1730).

4.9.3 Mathematics Course Descriptions-3000 Level

MATH 3120 Applied Discrete Mathematics Cr. Hrs. 3

(Lab Required) Sets, groups, graphs, and Boolean algebra. For Engineering students only. May not be held with COMP 2130. Prerequisites: ECE 2220 (C) and MATH 2130 (C).

MATH 3132 Engineering Mathematical Analysis Cr. Hrs. 3

Vector integral calculus; series of Ordinary differential equations; Fourier series and Partial differential equations. For Engineering and Geophysics students only. May not be held with MATH 3740, MATH 3800, or the former MATH 3100. Prerequisites: MATH 2130 (C) and MATH 2132 (C).

MATH 3142 Engineering Mathematical Analysis 4 Cr. Hrs. 3

Introduction to discrete mathematics; systems of linear differential equations; complex function theory and applications. For Engineering and Geophysics students only. May not be held with MATH 3110, MATH 3700, MATH 3710, or MATH 3800. Prerequisites: MATH 2130 (C); and MATH 2132 or the former MATH 2110 (C). NOTE: MATH 3132 is highly recommended.

MATH 3320 Algebra 2 Cr. Hrs. 3

Basic structure theory of groups, integral domains and field extensions. Not to be held with the former MATH 3350. Prerequisite: MATH 2020 (C) or MATH 2021 (C) or [the former MATH 3300 (C) and consent of instructor].

MATH 3322 Algebra 3 Cr. Hrs. 3

A continuation of topics in Algebra 1 and Algebra 2. More structure theory of groups, general ring theory, fields and field extensions, Galois theory. Prerequisite: MATH 3320 (C) or [the former MATH 3350 (C) and consent of instructor].

MATH 3330 Computational Algebra Cr. Hrs. 3

An introduction to the use of computers for symbolic mathematical computation, involving solving nonlinear systems and differential equations. A suitable software package will be used to explore applications. Prerequisite: MATH 2090 (C) or MATH 2091 (C) or the former MATH 2300 (C) or the former MATH 2301 (C) or the former MATH 2350 (C) or the former MATH 2352 (C) or consent of instructor.

MATH 3340 Complex Analysis 1 Cr. Hrs. 3

Analytic functions, Cauchy's theorem and integral formula, series representation of analytic functions, calculus of residues, Rouché's theorem and the principle of the argument. May not be held with the former MATH 3710. Prerequisites: [MATH 2180 (C) or the former MATH 3230 (C)] and [MATH 2150 (C) or MATH 2151 (C) or MATH 2720 (B) or MATH 2721 (B) or the former MATH 2750 (C)].

MATH 3360 Combinatorics 2 Cr. Hrs. 3

Advanced topics in combinatorics, including generating functions, elementary design theory, recurrences, chains and antichains, Polya counting. The course is challenging and is intended for students in mathematically rich disciplines. May not be held with the former MATH

4400. Prerequisite: MATH 2030 (C) or MATH 2031 (C) or the former MATH 3400 (C).

MATH 3370 Graph Theory 2 Cr. Hrs. 3

Advanced topics in graph theory, including matchings and coverings, optimization, factors, flows, extremal graph theory, basic Ramsey theory, connectivity, and spectral graph theory. Selected applications in science and operations research are studied. The course is challenging and is intended for students in mathematically rich disciplines. May not be held with COMP 4340. Prerequisite: MATH 2070 (C) or MATH 2071 (C) or the former MATH 2400 (B) or permission of instructor.

MATH 3380 Introduction to Projective Planes Cr. Hrs. 3

Affine planes and projective planes, cross ratio, complex projective plane (the great unifier), Desargues' theorem, projective planes over division rings, Pappus' theorem and commutativity, the fundamental theorem for projectivities on a line, introduction of coordinates in a projective plane. May not be held with the former MATH 2552 or the former MATH 3430. Prerequisite: MATH 2020 (C) or MATH 2021 (C) or the former MATH 3300 (C) or the former MATH 3350 (C) or consent of instructor.

MATH 3390 Introduction to Topology Cr. Hrs. 3

Topological spaces, continuity, connectedness, compactness, separation properties. May not be held with the former MATH 3240. Prerequisite: MATH 2180 (C) or the former MATH 3230 (C) or consent of instructor.

MATH 3410 Introduction to Mathematical Logic Cr. Hrs. 3

Propositional and first-order logic. Recursion theory. May not be held with the former MATH 4250. Prerequisite: MATH 2020 (C) or MATH 2021 (C) or the former MATH 2202 (C) or the former MATH 2352 (C) or consent of instructor.

MATH 3420 Numerical Analysis 2 Cr. Hrs. 3

Numerical methods for eigenvalue problems, nonlinear systems, initial-value problems, boundary-value problems; finite difference methods for ordinary and partial differential equations; error analysis. Not to be held with the former MATH 3600 or the former MATH 3601. Prerequisites: [MATH 2090 (C) or MATH 2091 (C) or the former MATH 2300 (B) or the former MATH 2301 (B) or the former MATH 2352 (C)] and [MATH 2150 (C) or MATH 2151 (C) or MATH 2720 (B) or MATH 2721 (B) or the former MATH 2750 (C)] and [MATH 2160 (C) or MATH 2161 (C) or the former MATH 2600 (C) or the former MATH 2601 (C)]. Pre- or corequisite: MATH 3440 or the former MATH 2800 or the former MATH 2801.

MATH 3440 Ordinary Differential Equations Cr. Hrs. 3

Theory and applications of ordinary differential equations; existence and uniqueness of solutions, linear systems, simple nonlinear systems. This course is theory-based and is intended for students in mathematically rich disciplines. Not to be held with the former MATH 3800. Prerequisite: MATH 2180 (C) or [(MATH 1300 (B) or MATH 1301 (B)) and (the former MATH 2730 (B) or the former MATH 2731 (B) or the former MATH 2750 (C))].

MATH 3460 Partial Differential Equations Cr. Hrs. 3

Method of characteristics for first order PDEs, wave, beam, heat and Laplace equations, derivation of PDEs, existence and uniqueness, energy estimates, well-posedness, maximum principles, separation of variables. Not to be held with the former MATH 3810. Prerequisites: [MATH 2150 (C) or MATH 2151 (C) (the former MATH 2750 (C)) or ((MATH 2720 (B) or MATH 2721 (B)) and (the former MATH 2730 (B) or the former MATH 2731 (B)))] and [MATH 3440 (C) or the former MATH 3800 (C)].

MATH 3470 Real Analysis 2 Cr. Hrs. 3

Functions of bounded variation, Riemann-Stieltjes integration and Lebesgue integration. Not to be held with the former MATH 3740 or the former MATH 3760. Prerequisites: [MATH 2150 (C) or MATH 2151 (C) or MATH 2720 (B) or MATH 2721 (B) or the former MATH 2750 (C)] and [MATH 2180 (C) or the former MATH 3230 (C)].

MATH 3472 Real Analysis 3 Cr. Hrs. 3

Fourier series and Fourier transforms; orthogonal systems and L2 theory, convergence and approximation. Multivariable calculus of maps from R^n to R^m , general chain rule and general notion of derivative, implicit function and inverse function theorems. Not to be held with the former MATH 3740 or the former MATH 3760. Prerequisite: MATH 3470 (C).

MATH 3480 Set Theory Cr. Hrs. 3

Axiomatic set theory. Cardinality, well-ordered sets, ordinal numbers, cardinal numbers. Axiom of Choice. Ordinal and cardinal arithmetic. Transfinite induction and recursion. May not be held with the former MATH 3220. Prerequisite: MATH 2020 (C) or MATH 2021 (C) or the former MATH 2202 (C) or consent of instructor.

4.9.3 Mathematics Course Descriptions-4000 Level

MATH 4240 Advanced Group Theory Cr. Hrs. 3

Representation theory of finite groups, presentations of finite and infinite groups, or other topics. Prerequisite: MATH 3322 (C) or the former MATH 3350 (C) or consent of instructor.

MATH 4260 Abstract Measure Theory Cr. Hrs. 3

Lebesgue and abstract measures, measurable functions, convergence theorems, absolutely continuous functions, measure spaces, the Radon-Nikodym theorem, Fubini's and Tonelli's theorems. Not to be held with the former MATH 4750. Prerequisite: MATH 3472 (C) or the former MATH 3740 (B+) or the former MATH 3760 (C).

MATH 4270 Algebraic Topology Cr. Hrs. 3

This course will serve as an introduction to elements of homotopy or homology theory. Not to be held with the former MATH 4230. Prerequisites: [MATH 3320 (C) or the former MATH 3300 (C)] and [MATH 3390 (C) or the former MATH 3240 (C)], or consent of instructor.

MATH 4280 Basic Functional Analysis Cr. Hrs. 3

Banach spaces, Hahn-Banach, open mapping and closed graph theorems, principle of uniform boundedness, linear operators and functionals, dual space, L_p and L_q spaces, weak and weak* topologies, Hilbert spaces and compact operators on a Hilbert space. Not to be held with the former MATH 4750. Prerequisites: [MATH 3472 (C) or the former MATH 3740 (B+) or the former MATH 3760 (C)] and [MATH 3390 (C) or the former MATH 3240 (C)], or consent of instructor.

MATH 4290 Complex Analysis 2 Cr. Hrs. 3

Conformal mappings, normal families, harmonic and subharmonic functions, Perron's family, Dirichlet problem and Green's function. Not to be held with the former MATH 4710. Prerequisites: [MATH 3340 (C) or the former MATH 3700 (B+) or the former MATH 3710 (C)] and [MATH 3390 (C) or the former MATH 3240 (C)].

MATH 4300 Combinatorial Geometry Cr. Hrs. 3

Topics in combinatorial geometry, including arrangements of convex bodies, introduction to polytopes, problems in discrete geometry, repeated

distances, and geometric graphs. Prerequisite: MATH 3360 (C) or the former MATH 3400 (C) or consent of instructor.

MATH 4320 Dynamical Systems Cr. Hrs. 3

Techniques for the qualitative analysis of nonlinear systems of ordinary differential equations and discrete-time systems. Not to be held with the former MATH 4800. Prerequisite: MATH 3440 (C) or the former MATH 3800 (C).

MATH 4330 Fundamentals of Approximation Theory Cr. Hrs. 3

Theoretical aspects of approximation theory: density, existence, uniqueness; direct and inverse theorems for polynomial approximation. Prerequisites: [MATH 2080 (C) or MATH 2081 (C) or the former MATH 2202 (C)] and [MATH 2160 (C) or MATH 2161 (C) or the former MATH 2600 (C) or the former MATH 2601 (C)], or consent of instructor.

MATH 4340 Introduction to Algebraic Geometry Cr. Hrs. 3

This course will introduce students to the basics of affine and projective varieties through a combination of basic theoretical tools and elementary examples. Prerequisite: MATH 3322 (C) or the former MATH 3350 (C) or consent of instructor.

MATH 4360 Introduction to Differential Geometry Cr. Hrs. 3

Manifolds and submanifolds; vector and tensor fields, Lie brackets and derivatives. Also at least one of the following: exterior differential calculus and Stokes' theorem, introduction to Riemannian geometry, symplectic geometry and hamiltonian mechanics. Not to be held with the former MATH 4730. Prerequisites: [MATH 3472 (C) or the former MATH 3740 (B) or the former MATH 3760 (C)] and [MATH 3390 (C) or the former MATH 3240 (C)].

MATH 4370 Linear Algebra and Matrix Analysis Cr. Hrs. 3

Vector and matrix norms, matrix factorizations, eigenvalues and eigenvectors, theory of non-negative matrices. Applications to differential equations, math biology, numerical analysis, digital image processing, data mining, GPS, Markov chains, graph theory, etc will be given in this course. Not to be held with the former MATH 4310. Prerequisite: MATH 2090 (C) or MATH 2091 (C) or the former MATH 2300 (B) or the former MATH 2301 (B) or the former MATH 2350 (C) or the former MATH 2352 (C).

MATH 4380 Mathematical Biology Cr. Hrs. 3

Formulation, analysis and simulation of suitable models in mathematical biology. Applications will be chosen from fields such as population dynamics, epidemiology, ecology, immunology and cellular dynamics. Not to be held with the former MATH 3530. Prerequisite: MATH 4320 (C) or the former MATH 3800 (C) or consent of instructor.

MATH 4390 Numerical Approximation Theory Cr. Hrs. 3

Computational aspects of approximation by interpolatory polynomials, convolutions, artificial neural networks, splines and wavelets. Prerequisites: [MATH 2150 (C) or MATH 2151 (C) or MATH 2720 (B) or MATH 2721 (B) or the former MATH 2750 (C)] and [MATH 2160 (C) or MATH 2161 (C) or the former MATH 2600 (C) or the former MATH 2601 (C)], or consent of instructor.

MATH 4440 Numerical Analysis of Partial Differential Equations Cr. Hrs. 3

Finite difference method, mathematical theory of Elliptic PDEs, finite element method, iterative solution of linear systems. Emphasis will be on the error analysis (stability, consistency and convergence) of the various

methods. Prerequisites: [MATH 3420 (C) or the former MATH 3600 (C) or the former MATH 3601 (C)] and [MATH 3460 (C) or the former MATH 3810 (C)] and [MATH 3470 (C) or the former MATH 3740 (B) or the former MATH 3760 (C)], or consent of instructor. It is recommended that MATH 4370 be taken prior to or at the same time.

MATH 4450 Number Theory 2 Cr. Hrs. 3

Algebraic number theory, arithmetic geometry and analytic number theory, Diophantine equations, examples such as arithmetic of elliptic curves and Dirichlet L-functions. Not to be held with the former MATH 3450. Prerequisites: [MATH 2020 (C) or MATH 2021 (C) and MATH 2170 (C)] or [(the former MATH 2500 (C) or the former MATH 2501 (C) and the former MATH 2202 (C) and the former MATH 2750 (C)], or consent of instructor.

MATH 4460 Partial Differential Equations 2 Cr. Hrs. 3

Green's function, Poisson, heat, Schrodinger and wave equations in two and three spatial dimensions, variational characterization of eigenvalues, Fourier and Laplace transforms, introduction to functional analytic techniques in PDEs. Not to be held with the former MATH 4810. Prerequisites: [MATH 3460 (C) or the former MATH 3810] and [MATH 3470 (C) or the former MATH 3740 (B) or the former MATH 3760 (C)], or consent of instructor.

MATH 4470 Rings and Modules Cr. Hrs. 3

The general theory of (non-commutative) rings, modules and algebras. Prerequisite: MATH 3322 (C) or the former MATH 3350 or consent of instructor.

MATH 4910 Project Course in Mathematics Cr. Hrs. 3

A research project by the student in consultation with the department head and an appropriate supervising Faculty member. A written report will be required to be submitted by the end of the term. An oral examination may be required. This course is restricted to students in the fourth year of the Honours or Major program in Mathematics and is not available to Graduate Students. This course may not be held for credit with MATH 4900. Prerequisite: Consent of Department.

MATH 4920 Topics in Mathematics Cr. Hrs. 3

Topics of current interest in Mathematics or Applied Mathematics upon the interests and requirements of students and faculty, and will include specialized topics not available in regular course offerings. Prerequisite: consent of department.

4.10 Department of Microbiology

Head: Deborah Court

Campus Address/General Office: 213 Buller Building

Telephone: 204 474 9372

Email Address: Deborah.Court@umanitoba.ca

Website: umanitoba.ca/faculties/science/departments/microbiology/

4.10.1 Program Information

Microbiology is the study of microorganisms such as bacteria, viruses, fungi, protozoa, and algae, and their interactions with the environment. It is also an area of study that plays a pivotal role in understanding other life science disciplines, such as medicine, agriculture, ecology, and pharmacy. Molecular and systems microbiology are part of the program, which spans applied, environmental and medical microbiology. The departments of Microbiology and Chemistry offer joint Honours programs (including Co-op) and joint Four Year Major programs (including Co-op) in biochemistry and biotechnology* (See Sections 4.2 and 4.4).

(*As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.)

Microbiology Prerequisite Information

Students are advised to take courses in the year suggested in the charts below; otherwise difficulties may arise with timetabling and prerequisite requirements. Students are responsible for all prerequisites and corequisites of the courses required or selected in all programs below. Since Chemistry courses form an integral part of all Microbiology programs, students should note that Grade 12 mathematics and chemistry are prerequisite to CHEM 1300. Students will also require Biology 40S (or equivalent) and any Grade 12 mathematics course (or equivalent) for entry to BIOL 1020 (the prerequisite for BIOL 1030).

Honours Requirements and Options

To enter the Honours program in Microbiology, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in MBIO 1010, and a minimum grade of "C+" in CHEM 1310. BIOL 1020, BIOL 1030, STAT 1000 (or STAT 1150) and the 3 credit hours of specified Mathematics or Physics are program requirements and students are strongly encouraged to complete these courses in first year.

To continue in the Microbiology Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate from the Microbiology Honours program students must achieve a minimum DGPA of 3.00 and obtain a minimum grade of "C" on the courses that make up the 120 credit hours of the degree.

Students who wish to elect CHEM 2260, CHEM 2290 or CHEM 2470 as options should note the prerequisites in making a choice of mathematics courses.

CHEM 2210 must be taken before MBIO 2370 (CHEM 2370). Courses (MBIO 2360 and CHEM 2360), (MBIO 2370 and CHEM 2370) are the same and credit cannot be held for both. Microbiology students will normally register in MBIO 2360 and MBIO 2370, but CHEM 2360 and CHEM 2370 will be regarded as equivalents.

By careful choice of electives, programs may be selected giving emphasis to various areas of Microbiology, e.g., Biochemistry and Molecular Biology or Environmental and Ecological Microbiology. In choosing optional courses, students should be aware of any prerequisite requirements.

Four Year Major

To enter the Major Degree program in Microbiology, a student must have completed at least 24 credit hours with a minimum DGPA of 2.00, and also obtained a minimum grade of "C+" in MBIO 1010, and CHEM 1310. BIOL 1020, BIOL 1030, STAT 1000 (or STAT 1150) and the 3 credit hours of specified Mathematics or Physics are program requirements and students are strongly urged to complete these courses in first year.

* Students interested in studying Microbiology should note that Grade 12 mathematics and chemistry are prerequisite to CHEM 1300. Students will also require Biology 40S (or equivalent) and any Grade 12 mathematics course (or equivalent) for entry to BIOL 1020 (the prerequisite for BIOL 1030).

To continue in the Microbiology Major Degree, students must maintain a minimum DGPA of 2.00.

To graduate from, the 4-year Major degree program in Microbiology, students are required to obtain a minimum DGPA of 2.00.

Potential entrants to this program should also note the following:

Students who wish to elect CHEM 2260, CHEM 2290 or CHEM 2470 as options should note the prerequisites in making a choice of mathematics courses.

Chemistry CHEM 2210 must be taken before MBIO 2370 (CHEM 2370). Courses MBIO 2360 and CHEM 2360, and MBIO 2370 and CHEM 2370 are the same and credit cannot be held for both. Microbiology students will normally register in MBIO 2360 and MBIO 2370, but CHEM 2360 and CHEM 2370 will be regarded as equivalents in the four year Major program.

Students must note course and grade prerequisites when selecting 3000 and 4000 level Microbiology courses.

Microbiology MBIO 4530 is not available in this program without special permission.

By careful choice of electives, programs may be selected giving emphasis to various areas of Microbiology, e.g., Biochemistry and Molecular Biology or Environmental and Ecological Microbiology. In choosing optional courses, students should be aware of any prerequisite requirements.

The listed requirements are minimum requirements. Students are reminded that should they wish to take further courses in Microbiology, they are at liberty to do so within the degree regulations.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Before beginning their first co-op work term, students are required to complete the first and second year requirements of the program, in addition to MBIO 2370(CHEM 2370), MBIO 3010 and MBIO 3410.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Before beginning their first co-op work term, students are required to complete the first and second year requirements of the program, in addition to MBIO 2370 (CHEM 2370), MBIO 3010 and MBIO 3410.

Three Year General

As prescribed with all other faculty regulations in Section 3.2, students in this program must select 18 credit hours of 2000, 3000 and (or) 4000 level courses from each of **two** Science areas. To satisfy the requirement in the area of Microbiology, students must take a minimum of 18 credit hours of Microbiology courses as prescribed in the chart below (subject to the

Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level.).

Students wishing to elect courses in Microbiology in fulfilment of the requirements for the B.Sc. (General) degree should note the following:

- Students must obtain a grade of "C" or better in the following: MBIO 1010, BIOL 1020, BIOL 1030, CHEM 1300 and CHEM 1310.
- Students are encouraged to elect additional Microbiology courses above the required minimum.
- Microbiology MBIO 2770 and MBIO 2780 (CHEM 2770 and CHEM 2780) are not available in this program.

Minor

Students must complete MBIO 1010, CHEM 1300, CHEM 1310, BIOL 1020, BIOL 1030, plus 12 credit hours of Microbiology courses at the 2000 and (or) 3000 level.

Biochemistry and Biotechnology* Programs

The Department of Microbiology, in conjunction with the Department of Chemistry, offers Joint Honours programs, Joint Honours Co-operative Option programs, Joint four year Major programs and Joint four year Major Co-operative Option programs in Biochemistry and Biotechnology.* **See Sections 4.2 Biochemistry Program and 4.4 Biotechnology Program*** for full details.

(*As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office.)

4.10.2 Microbiology Program Charts

| 4.10.2 Microbiology | | | |
|--|---|---|---|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS⁶ 120 CREDIT HOURS | | | |
| MBIO 1010 ⁵ BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 | MBIO 2020, MBIO 2360 (CHEM 2360), MBIO 2370 (CHEM 2370) BIOL 2500, BIOL 2520 CHEM 2210, CHEM 2220 | MBIO 3010, MBIO 3030, MBIO 3280, MBIO 3410, MBIO 3470 | MBIO 4020, MBIO 4440, MBIO 4480 One of: MBIO 4600, MBIO 4610 or MBIO 4672 |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 STAT 1000 or STAT 1150 | | 18 credit hours of Microbiology courses including 3 credit hours at the 4000 level 9 credit hours chosen from Microbiology courses or from the option list (see below) | |

| | | | |
|--|---|---|---|
| 6 credit hours from the Faculty of Arts, which should include the required "W" course | | | |
| 9 credit hours of approved electives | | | |
| 3 credit hours from Microbiology or from the option list | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| HONOURS CO-OPERATIVE OPTION^{6,7} 120 CREDIT HOURS | | | |
| MBIO 1010 ⁵ BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 | MBIO 2020, MBIO 2360 (CHEM 2360), MBIO 2370 (CHEM 2370) BIOL 2500, BIOL 2520 CHEM 2210, CHEM 2220 | MBIO 3010, MBIO 3030, MBIO 3280, MBIO 3410, MBIO 3470 | MBIO 4020, MBIO 4440, MBIO 4480 One of: MBIO 4600, MBIO 4610 or MBIO 4672 |
| In Year 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 STAT 1000 or STAT 1150 | | 24 credit hours of Microbiology courses including 3 credit hours at the 4000 level 9 credit hours chosen from Microbiology courses or from the option list (see below) | |
| 6 credit hours from the Faculty of Arts, which should include the required "W" course | | Work Terms: MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |
| 9 credit hours of approved electives | | | |
| 3 credit hours chosen from Microbiology courses ³ or from the option list (see below) | | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| FOUR YEAR MAJOR (Including Co-op)^{4,6,7} 120 CREDIT HOURS | | | |
| MBIO 1010 ⁵ BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 | MBIO 2020, MBIO 2360 (CHEM 2360), MBIO 2370 (CHEM 2370) | MBIO 3010, MBIO 3030, MBIO 3410 | |

| | | |
|---|--|--|
| | BIOL 2500, BIOL 2520 | |
| | CHEM 2210, CHEM 2220 | |
| In Year 1 or Year 2 the following must be completed: | | |
| 3 credit hours of Mathematics or Physics chosen from: MATH 1200 ¹ , MATH 1300 ¹ , MATH 1500 ¹ , PHYS 1020 or PHYS 1050 | 24 credit hours of Microbiology courses including 15 credit hours at the 4000 level | |
| STAT 1000 or STAT 1150 | 9 credit hours of Microbiology courses ² or courses chosen from the option list (see below) | |
| 6 credit hours from the Faculty of Arts, which should include the required "W" course | 18 credit hours of approved electives | |
| 12 credit hours of approved electives | Work Terms: MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990 | |
| THREE YEAR GENERAL 90 CREDIT HOURS | | |
| MBIO 1010 | 18 credit hours of 2000, 3000, and (or) 4000 level Microbiology courses (subject to the Faculty requirement that of the 36 credit hours in the two advanced level Science areas, at least 6 credit hours must be at the 3000/4000 level) | |
| MINOR | | |
| MBIO 1010 (C) | 12 credit hours of Microbiology at the 2000 and (or) 3000 level | |
| CHEM 1300, CHEM 1310 (C) | | |
| BIOL 1020, BIOL 1030 (C) | | |
| BIOCHEMISTRY – Joint Microbiology and Chemistry Programs: See Section 4.2 Biochemistry | | |
| BIOTECHNOLOGY* – Joint Microbiology and Chemistry Programs: See Section 4.4 Biotechnology | | |
| *As of Fall 2018, admission to the Biotechnology programs has been temporarily suspended. For further information, see the Faculty of Science office. | | |

NOTES:

1 MATH 1220 or MATH 1310 may be taken in place of MATH 1300; MATH 1230, MATH 1510, MATH 1520 or MATH 1690 may be taken in place of MATH 1500. MATH 1240 may be taken in place of MATH 1200.

2 MBIO 4530 may be selected only by special permission.

3 It is strongly recommended that MBIO 2370 (CHEM 2370) be completed prior to year 3 as it is the prerequisite to many upper level MBIO courses.

4 **IMPORTANT:** The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

5 MBIO 1010 may be completed in either year 1 or year 2. It is recommended that it be completed in first year.

6 MBIO 1220 and MBIO 1410 cannot be used to satisfy course requirements in a Major or Honours program.

7 Students in the Co-operative Option must complete MBIO 3010 and MBIO 3410 before their first employment term.

(The number 6 in brackets indicates a 6 credit hour course.)

Option List for All Microbiology Programs:

Agroecology: AGEC 2370

Biological Sciences:

BIOL 2242, BIOL 2260, BIOL 2261, BIOL 2300, BIOL 2301, BIOL 2380, BIOL 2381, BIOL 2410, BIOL 2411, BIOL 2420, BIOL 2421, BIOL 3260, BIOL 3290, BIOL 3291, BIOL 3330, BIOL 3370, BIOL 3400, BIOL 3450, BIOL 3452, BIOL 3460, BIOL 3462, BIOL 3470, BIOL 3472, BIOL 3500, BIOL 3501, BIOL 3542, BIOL 3560, BIOL 3561, BIOL 4242, BIOL 4244, BIOL 4246, BIOL 4430, BIOL 4480, BIOL 4540, BIOL 4542, BIOL 4544 (BIOL 3540), BIOL 4554, BIOL 4556, BIOL 4560

Chemistry:

CHEM 2260 (CHEM 2280), CHEM 2290, CHEM 2400 (CHEM 2380), CHEM 2470, CHEM 3390, CHEM 3590, CHEM 3570, CHEM 4590, CHEM 4360, CHEM 4370, CHEM 4620, CHEM 4630, CHEM 4670

Environmental Science: ENVR 2180

Food Sciences: FOOD 4150, FOOD 4280

General Agriculture: AGRI 2180

Pharmacology: PHAC 4030, PHAC 4040

Plant Science: PLNT 3400

Statistics: STAT 2000 or STAT 2150

4.10.3 Microbiology Course Descriptions-1000 Level**MBIO 1010 Microbiology I****Cr. Hrs. 3**

(Lab Required) Topics will include the definition and history of microbiology, concepts of practical microbiology, prokaryotic cell structure, prokaryotic specialization in gene expression and transfer of genetic information, the role of microbes in environments including the human body, and applications of microbiology to food production and biotechnology. May not be held with MBIO 1011 or the former MBIO 2100 (MBIO 2101) or MBIO 2110 (MBIO 2111). Prerequisite: BIOL 1020.

MBIO 1220 Essentials of Microbiology**Cr. Hrs. 3**

An introduction to the essential principles of microbiology including immunity, with emphasis on microbial disease. Not available to students who have previously obtained credit in or are currently enrolled in MBIO

1010 or MBIO 1011 (or the former MBIO 2100 or MBIO 2101). NOTE: MBIO 1220 is intended for students planning to enter the College of Nursing or other health care or related programs. Students that have completed MBIO 1010 but wish to take MBIO 1220 to satisfy Faculty of Nursing entrance requirements must obtain departmental permission prior to registering for MBIO 1220. MBIO 1220 cannot be used to satisfy the requirements of the Microbiology Honours or Major degree programs. MBIO 1220 can be used as an elective course in any Science program.

MBIO 1410 Introduction of Molecular Biology Cr. Hrs. 3

An introduction to the mechanisms, themes and patterns that are present in the molecular biology of organisms ranging from bacteria to humans. The basic applications of molecular biology to disciplines such as medical microbiology, criminology, genetic fingerprinting, genome sequencing, and bioinformatics will be discussed. Not available to students who have previously obtained credit in, or are currently enrolled in the following courses: the former MBIO 2410, BIOL 2500, BIOL 2501, MBIO 2020, MBIO 2021, the former MBIO 2100, MBIO 2101, MBIO 3410 or MBIO 3411. Prerequisite: one of grade 12 Biology, grade 12 Chemistry, BIOL 1000, CHEM 1000, or higher level Chemistry or Biology course; or consent of department. NOTE: MBIO 1410 is intended for students outside of Microbiology and Biological Sciences who require an introduction to molecular biology, such as those with interests in bioinformatics, biophysics, or bioengineering. Although this course may be used as an elective in an Arts or Science program, it may not be used to meet a program requirement for an Honours or Major program in Microbiology.

4.10.3 Microbiology Course Descriptions-2000 Level

MBIO 2020 Microbiology II Cr. Hrs. 3

(Lab Required) Topics will include bacterial growth, chromosome replication, the specifics of transcription and translation and their application to the regulation of microbial gene expression. Families of bacterial and animal viruses, their modes of reproduction and pathogenicity will be discussed. Mutation and gene transfer in bacteria will be introduced. May not be held with MBIO 2021 or MBIO 2110, MBIO 2111. Prerequisites: MBIO 1010 or MBIO 1011 and one of CHEM 1310, CHEM 1311 or CHEM 1320 (C).

MBIO 2230 Introductory Biogeochemistry Cr. Hrs. 3

The roles and interactions of biological, chemical and geological reactions in determining the composition of the environment. Microorganisms as major agents of biogeochemical change and their roles in the element cycles will be especially emphasized. Not available to students who have previously obtained credit in MBIO 4320 or MBIO 4440 or are currently registered in MBIO 4440. Prerequisite: one of MBIO 1010, MBIO 1011, BIOL 1030, BIOL 1031 (C); and CHEM 1310 or CHEM 1311 (C).

MBIO 2360 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy Cr. Hrs. 3

(Lab Required) An introductory course dealing with kinds of molecules encountered in biochemistry, and the concept of metabolic energy as a product of catabolism and a requirement for biosynthesis. This course is also given in Chemistry as CHEM 2360. May not be held with MBIO 2361, MBIO 2770, CHEM 2360, CHEM 2361, CHEM 2860, or CHEM 2770. Prerequisites: CHEM 1310 or CHEM 1311 (C+); and one of BIOL 1030, BIOL 1031 (C). NOTE: Students may hold this course for credit in the B.Sc. General Degree program, but may not use it to fulfill the minimum requirement of 12 credit hours in 2000 level Chemistry (pre-September 2008 regulations). Those students following the new B.Sc. General Degree regulations (effective 2008-09) are able to use this course as advanced level credit in both Microbiology and Chemistry.

MBIO 2370 Biochemistry 2: Catabolism, Synthesis, and Information Pathways Cr. Hrs. 3

(Lab Required) An introductory course dealing with the basic metabolic processes that occur in living cells, including the production and use of metabolic energy, the breakdown and synthesis of biomolecules; the synthesis of DNA, RNA and proteins; and the regulation of these processes. This course is also given in Chemistry as CHEM 2370. May not be held with MBIO 2371, MBIO 2780, CHEM 2370, CHEM 2371, or CHEM 2780. Prerequisites: CHEM 2210 (C); and one of MBIO 2360, MBIO 2361, CHEM 2360 or CHEM 2361 (C). NOTE: Students may hold this course for credit in the B.Sc. General Degree program, but may not use it to fulfill the minimum requirement of 12 credit hours in 2000 level Chemistry (pre-September 2008 regulations). Those students following the new B.Sc. General Degree regulations (effective 2008-09) are able to use this course as advanced level credit in both Microbiology and Chemistry.

MBIO 2420 Introductory Virology Cr. Hrs. 3

An introduction to the general principles of eukaryotic virology, with emphasis on animal virus systems. These principles will be reinforced and expanded to deal with specific viruses that cause acute and chronic infections in humans. Topics to be discussed include the molecular structure of viruses; the basic multiplication strategies of the major virus families; mechanisms of host immune evasion and viral latency, persistence, and oncology. Prerequisite: MBIO 1010

MBIO 2770 Elements of Biochemistry 1 Cr. Hrs. 3

(Lab Required) Basic concepts of biochemistry including the properties of biomolecules (amino acids and proteins, enzymes, carbohydrates, lipids, and nucleic acids) and aspects of energy production in cells. For students in Agricultural and Food Sciences, Human Ecology, and four-year Biological Sciences programs in Science. May not be used as part of an Honours, Major, General, or Minor program in Chemistry or in Microbiology. This course is also given in Chemistry as CHEM 2770. May not be held with CHEM 2770, MBIO 2360, MBIO 2361, CHEM 2360, CHEM 2361, or CHEM 2860. Prerequisites: CHEM 1310 or CHEM 1311 (C) or CHEM 1320 (C), plus six credit hours of university level biological sciences.

MBIO 2780 Elements of Biochemistry 2 Cr. Hrs. 3

(Lab Required) The continuation of MBIO 2770, dealing with nitrogen and lipid metabolism, representative biosynthetic pathways, and synthesis and importance of DNA, RNA and proteins. For students in Agricultural and Food Sciences, Human Ecology, and four-year Biological Sciences programs in Science. May not be used as part of an Honours, Major, General, or Minor program in Chemistry or Microbiology. This course is also given in Chemistry as CHEM 2780. May not be held with CHEM 2780, MBIO 2370, MBIO 2371, CHEM 2370, or CHEM 2371. Prerequisite: A grade of "C" or better in one of MBIO 2770, CHEM 2770, MBIO 2360, MBIO 2361, CHEM 2360, or CHEM 2361.

4.10.3 Microbiology Course Descriptions-3000 Level

MBIO 3000 Applied Biological Safety Cr. Hrs. 3

A comprehensive overview of (i) applied biological safety in research and industrial environments and (ii) the disease-causing features of relevant infectious agents and considerations for their containment. The course consists of lectures and demonstration components. Prerequisite: MBIO 1010 (MBIO 1011)(C) or the former MBIO 2100 (or equivalent MBIO 2101) (C); and one of CHEM 1310, CHEM 1311, CHEM 1320 or permission of instructor. Check with department for availability.

MBIO 3010 Mechanisms of Microbial Disease Cr. Hrs. 3

A consideration of host-parasite relationships, an introduction to the immune response, microbial pathogenesis, viral diseases, clinical microbiology and public health, and an introduction to antimicrobial agents. May not be held with MBIO 3011. Prerequisites: MBIO 2020 (MBIO 2021)(C) or the former MBIO 2100 or former MBIO 2101 (C).

MBIO 3030 Microbiology III Cr. Hrs. 3

(Lab Required) The course will include an introduction to microbial growth and genomics approaches used for the analysis of microbial metabolism. Using these tools, the physiology of microbial cell walls, transport, and motility, as well as microbial metabolism as related to ATP production, respiration, fermentation and carbon fixation will be discussed. May not be held with MBIO 3031 or the former MBIO 2100. Prerequisites: MBIO 2020 (MBIO 2021)(C); and one of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371 (C); or consent of instructor.

MBIO 3280 Microbial Communities Cr. Hrs. 3

(Lab Required) This course will examine microbial communities, which will be discussed in terms of their composition, physiological adaptations and their effects on their abiotic and biological surroundings. Topics will include nutrient cycling, biodegradation and adaptation to extreme environments, and the applications arising from these microbial functions. Methods for quantitation of microbial biomass and biological activity will be discussed. This course may not be held for credit with MBIO 2280. Prerequisites: both MBIO 1010 (MBIO 1011)(C) and CHEM 1310 (CHEM 1311)(C); or MBIO 2100 (MBIO 2101)(C). MBIO 2020 (MBIO 2020, MBIO 2110) and MBIO 2410 are recommended prerequisites.

MBIO 3410 Molecular Biology Cr. Hrs. 3

A rigorous treatment of the foundations of modern day molecular biology as it pertains to molecular disease, gene and cell manipulation, and cellular controls. May not be held with MBIO 3411. Prerequisites: One of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371, MBIO 2780, or CHEM 2780 (C); and a C or better in one of MBIO 2020 (MBIO 2021), MBIO 2110 (MBIO 2111), BIOL 2520 (BIOL 2521, ZOOL 2280, ZOOL 2281) or BIOL 2500 (BIOL 2501, BOTN 2460, BOTN 2460).

MBIO 3430 Molecular Evolution Cr. Hrs. 3

An analysis starting with prebiotic evolution, progressing through the elaboration of macromolecules and examining their adaptation to their function as cellular components. Proteins, carbohydrates, and nucleic acids as structural, catalytic, and genetic elements in evolution of living systems. Prerequisite: A "C" or better in one of: MBIO 2020, MBIO 2021, the former MBIO 2110, the former MBIO 2111, BIOL 2500, BIOL 2501, the former BOTN 2460, the former BOTN 2461, PLNT 2520, BIOL 2520, the former ZOOL 2280, the former ZOOL 2281, MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371, MBIO 2780 or CHEM 2780.

MBIO 3450 Regulation of Biochemical Processes Cr. Hrs. 3

Mechanisms of regulation of enzyme activity, including allostery, control of selected biosynthetic and degradative pathways and regulation of gene expression. Contact department regarding availability. May not be held with MBIO 3451. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111) (C); and one of MBIO 2370, MBIO 2371, CHEM 2370, or CHEM 2371 (C); or consent of the department.

MBIO 3460 Membrane and Cellular Biochemistry Cr. Hrs. 3

(Lab Required) Isolation, fractionation, structure and function of cellular membranes and subcellular components. The central role of these elements in the biochemistry of cellular processes will be stressed. May not be held with MBIO 3461. Prerequisites: One of MBIO 2370, MBIO 2371, CHEM 2370, or CHEM 2371 (C).

MBIO 3470 Microbial Systematics Cr. Hrs. 3

(Lab Required) Characterization and classification of the major group of micro-organisms. Bases for divisions and the relatedness among organisms will be studied. Laboratory work on the identification of representative species. Prerequisite: MBIO 3030 (MBIO 3031) or MBIO 2110 (MBIO 2111) (C).

MBIO 3980 Work Term 1 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Microbiology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only). Prerequisite: MBIO 2370 (MBIO 2371) or CHEM 2370 (CHEM 2371).

MBIO 3990 Work Term 2 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Microbiology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.10.3 Microbiology Course Descriptions-4000 Level**MBIO 4010 Immunology H Cr. Hrs. 3**

(Lab Required) Topics will include antigens, antibodies, antigen-antibody reactions, immunogenetics, regulation of immune reactions, complement, hypersensitivities, autoimmunity, immunodeficiencies, transplantation and tumour immunology. Priority will be given to fourth year Science Honours students. May not be held with MBIO 4011, MBIO 4020. Prerequisite: MBIO 3010 or MBIO 3011 (C).

MBIO 4020 Immunology Cr. Hrs. 3

Topics will include antigens, antibodies, antigen-antibody reactions, immunogenetics, regulation of immune reactions, complement, hypersensitivities, autoimmunity, immunodeficiencies, transplantation and tumour immunology. May not be held with MBIO 4010, MBIO 4011. Prerequisite: MBIO 3010 or MBIO 3011 (C).

MBIO 4030 Special Topics in Microbiology Cr. Hrs. 3

Microbiology is a very broad field that encompasses a wide range of specialized topics. In this course, students can pursue a specific topic in detail through lectures, assigned readings, seminars and research projects. The course is normally restricted to third and fourth year Honours and Major students. Topics to be covered by the course shall be decided by the instructor(s) in consultation with the student(s) and with the approval from the Department. Grades are based on written assignments and reports. Evaluation may also include oral presentation and poster presentation(s). Prerequisite: Consent of Department.

MBIO 4410 Virology Cr. Hrs. 3

A comprehensive examination of fundamental properties of viruses, virus taxonomy, and the different ways in which viruses replicate. The ways viruses cause disease and experimental methods used in virology also will be examined. May not be held with MBIO 4411, or for credit by students who have already taken MMIC 7010. Prerequisites: MBIO 3010 or MBIO 3011 (C); and MBIO 3410 or MBIO 3411 (C).

MBIO 4440 Systems Microbiology: from Genomes to Life Cr. Hrs. 3

(Lab Required) The purpose of this course is to use knowledge of the components of the bacterial cell to synthesize an understanding of the growth of microbes and their adaptation to their environments. The most recent research tools and systems biology approaches will be discussed. This course may not be held for credit with MBIO 3440. Prerequisites: MBIO 3030 (MBIO 3031)(C); or the former MBIO 2110 (MBIO 2111)(C); and one of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371(C).

MBIO 4480 Microbes in our Environment Cr. Hrs. 3

(Lab Required) A course investigating the diversity of roles microbes play in our immediate environment, and how they affect it. Environments to be examined may include the human body, waste treatment facilities and extreme environments. Molecular tools to study the community structure and roles of individual organisms will also be discussed. This course may not be held for credit with MBIO 3480 or MBIO 4320. Prerequisites: MBIO

3030 (MBIO 3031)(C); or the former MBIO 2110 (MBIO 2111)(C); and one of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371(C).

MBIO 4520 Industrial Bioprocesses Cr. Hrs. 3

(Lab Required) Bioprocesses for a range of commercially important healthcare and industrial products including antibiotics, vaccines, steroids, therapeutic recombinant proteins, monoclonal antibodies, and ethanol will be discussed. Other topics will include bioreactor design, metabolic engineering, applied genetic engineering and animal cell technology. This course may not be held for credit with MBIO 4510. Prerequisites: MBIO 3030 (or one of MBIO 2100 or MBIO 2101) (C); and one of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371 (C).

MBIO 4530 Project in Microbiology Cr. Hrs. 6

(Lab Required) A research project chosen in consultation with the department head, and supervised by a staff member. A written report is normally required. The course is available only to final year Honours students in Microbiology, the Joint Microbiology-Chemistry programs, or the Genetics program. May not be held with CHEM 4710.

MBIO 4540 Biological Energy Transduction Cr. Hrs. 3

Biochemistry of biological processes involving interconversion of different forms of energy such as oxidative phosphorylation, membrane transport and contractile processes. May not be held with MBIO 4541. Prerequisite: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111) (C); and one of MBIO 2370, MBIO 2371, CHEM 2370, or CHEM 2371(C); or consent of the department. MBIO 3030 (MBIO 3031) is recommended as a prerequisite to this course.

MBIO 4600 Molecular Genetics of Prokaryotes Cr. Hrs. 3

(Lab Required) A detailed examination of replication, expression, mutability, repair and transposition of DNA in bacteria and their viruses. Priority will be given to Science Honours and Majors students. Check with department for availability. May not be held with MBIO 4601, MBIO 4602. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111) (C); and one of MBIO 2370, MBIO 2371, CHEM 2370, or CHEM 2371 (C). BIOL 2500, (BIOL 2501, BOTN 2460, BOTN 2461) is recommended.

MBIO 4602 Molecular Genetics of Prokaryotes - Lectures Cr. Hrs. 3

A detailed examination of replication, expression, mutability, repair and transposition of DNA in bacteria and their viruses. Lecture material will be identical to that of MBIO 4600, but MBIO 4602 lacks the laboratory component. Honours and Major students must register in MBIO 4600. Check with the department for availability. May not be held with MBIO 4600, MBIO 4601. Prerequisites: MBIO 2020 (MBIO 2021) or the former MBIO 2110 (MBIO 2111) (C); and one of MBIO 2370, MBIO 2371, or CHEM 2370, CHEM 2371(C). BIOL 2500 (BOTN 2460, BOTN 2461) is recommended.

MBIO 4610 Molecular Genetics of Eukaryotes Cr. Hrs. 3

(Lab Required) A comprehensive study dealing with replication and expression of DNA, genome structure, and the involvement of genes in diseases such as cancer. Priority will be given to Science Honours and Majors students. Check with the department for availability. May not be held with MBIO 4612. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111) (C); and MBIO 3410 or MBIO 3411. BIOL 2500 (BIOL 2501, BOTN 2460, BOTN 2461) is recommended.

MBIO 4612 Molecular Genetics of Eukaryotes - Lectures Cr. Hrs. 3

A comprehensive study dealing with replication and expression of DNA, genome structure, and the involvement of genes in diseases such as cancer. Lecture material will be identical to that of MBIO 4610, but MBIO 4612 lacks the laboratory component. Honours and Majors students must register in MBIO 4610. Check with the department for availability. May not be held with the MBIO 4610. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110

(MBIO 2111) (C); and MBIO 3410 or MBIO 3411 (C). BIOL 2500 (BIOL 2501, BOTN 2460, BOTN 2461) is recommended.

MBIO 4670 Applied Molecular Biology H Cr. Hrs. 3

(Lab Required) The overall objective of this course is to introduce and describe current molecular techniques and their application to biological problems. These include, but are not limited to basic gene cloning, mutagenesis, and over-expression. Priority will be given to Science Honours students. May not be held with MBIO 4672, or the former MBIO 4570, MBIO 4581 or the former MBIO 4580. Prerequisites: MBIO 3410 or MBIO 3411 (C).

MBIO 4672 Applied Molecular Biology Cr. Hrs. 3

The overall objective of this course is to introduce and describe the current molecular techniques and their application to biological problems. These include, but are not limited to, basic gene cloning, mutagenesis and over-expression. May not be held with MBIO 4670, the former MBIO 4570, MBIO 4581 or the former MBIO 4580. Prerequisite: MBIO 3410 or MBIO 3411 (C).

MBIO 4980 Work Term 3 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Microbiology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

MBIO 4990 Work Term 4 Cr. Hrs. 0

Work assignments in business, industry or government for students registered in the Microbiology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).

4.11 Department of Physics and Astronomy

Head: Robert Stamps
Campus Address/General Office: 301 Allen Building
Telephone: 204 474 9817
Email Address: physics@umanitoba.ca
Website: <http://www.physics.umanitoba.ca/>

4.11.1 Program Information

Physics is the discipline that by experiment and logical analysis examines the laws of nature that form the basis for all relationships and interactions between matter and energy. Knowledge of physics is also essential in other natural sciences, such as chemistry and geology, and to professions such as engineering, medicine and dentistry. Astronomy, the other focus of this department, examines the universe, the earth and the planets, as well as phenomena such as quasars, pulsars, comets, and asteroids; a planetarium and an astronomical observatory are part of this program. In both Physics and Astronomy mathematical skills are developed simultaneously.

The Department of Physics and Astronomy and the Department of Electrical and Computer Engineering have defined focus areas of study within their own programs. Students taking the courses recommended for these focus areas will find it easier to transfer between programs in Physics and Astronomy and Electrical and Computer Engineering programs. Students interested in obtaining more information about transferring to a Physics program from Electrical Engineering should consult with the Head of the Physics department.

Honours

To enter the Honours programs in Physics and Astronomy, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in PHYS 1070, or a "B+" in PHYS 1030. Students are strongly encouraged to complete MATH 1300, MATH 1500, and MATH 1700 in Year 1. Not only are these courses required in the

Physics and Astronomy programs, they are required prerequisites to several second year Physics and Astronomy required courses.

To continue in the Physics and Astronomy Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and minimum grade of "C" in each course that contributes to the 120 credit hours of the degree.

There are a number of awards — the Coish, the C.P. Loewen, the Neamtan, the Roulston, and the Sen Scholarships — available in this program.

Joint Honours

The Department of Physics and Astronomy offers joint honours programs in conjunction with the Departments of Mathematics, Computer Science, and Chemistry.

To enter the Joint Honours Mathematics-Physics program the student must have a minimum grade of "B" in: MATH 1232 or MATH 1690 or a minimum grade of "A" in MATH 1700, PHYS 1050 (or "B+" in PHYS 1020) and PHYS 1070.

To enter the Joint Honours Computer Science-Physics program, the student must have a minimum grade of "B" in: PHYS 1050 (or "B+" in PHYS 1020), PHYS 1070, MATH 1300, MATH 1500 (or equivalent), MATH 1700 (or equivalent), and COMP 1020.

To enter the Joint Honours Chemistry-Physics program, the student must have a minimum grade of "B" in: PHYS 1050 (or "B+" in PHYS 1020), PHYS 1070, CHEM 1300, CHEM 1310, MATH 1500 and MATH 1700.

Double Honours

The Department of Physics and Astronomy offers a double honours degree in conjunction with the Biochemistry program.

Four Year Major

The program is intended for students who wish to learn Physics as part of a general education, or combine Physics with other disciplines. There are many options with this degree which might include a career in education, high technology, business, or science journalism. The large number of electives will allow the students to obtain significant background in another field such as Chemistry, Life Sciences, Computer Science, Mathematics, Physical Geography, Geophysics or Geology. In some cases, these can be recognized formally as a minor or part of a double major program.

To enter the four year Major program in Physics and Astronomy, a student must have PHYS 1050 (C+) or PHYS 1020 (B). In addition, students must have satisfied the faculty requirements for entry to the four year Major program. Students are strongly encouraged to complete PHYS 1070 or PHYS 1030 as well as MATH 1300, MATH 1500, and MATH 1700 in Year 1. Not only are they required courses in the Physics and Astronomy programs, these courses are required prerequisites to several required second year Physics and Astronomy courses.

Honours and Major Co-operative Options

A co-operative education option is available to both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and the minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for the regular Honours program.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Three Year General

As prescribed with all other faculty regulations in Section 3.2, students in this program must select 36 credit hours of 2000 and (or) 3000 level courses from **two** Science departments. To satisfy the requirement in the Department of Physics and Astronomy, students must select a minimum of 18 credit hours from the list in the chart below.

Variations in any of the programs listed above may be possible, but must be approved by the head of the department and the Science general office.

4.11.2 Physics and Astronomy Program Charts

| 4.11.2 Physics and Astronomy | | | |
|---|--|--|---|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS: Astronomy and Astrophysics¹ (Including Co-operative Option) 120 CREDIT HOURS | | | |
| PHYS 1050 (or PHYS 1020) and PHYS 1070 (B)(or PHYS 1030 (B+)) ² MATH 1300 ² , MATH 1500 ² , MATH 1700 ² ASTR 1810 COMP 1012 ⁵ 6 credit hours from the Faculty of Arts including the "W" requirement. | PHYS 2600, PHYS 2650, PHYS 2386, PHYS 2496 PHYS 2260 or PHYS 2610 ASTR 2000, ASTR 2070 MATH 2090, MATH 2720 | PHYS 3386, PHYS 3430 (6), PHYS 3496, PHYS 3630, PHYS 3650, PHYS 3670 ASTR 3180, ASTR 3230 | PHYS 4386, PHYS 4646, PHYS 4676, PHYS 4678, PHYS 4680 One of PHYS 4010, PHYS 4516, or PHYS 4250 Two of ASTR 4020, ASTR 4100, ASTR 4200, ASTR 4400 |

| | | | |
|---|--|--|--|
| 3 credit hours of open electives (ASTR 1830 is recommended). | 3 credit hours of open electives ³ . | 3 credit hours of open electives ³ (ASTR 3070 is recommended). | 6 credit hours of open electives ³ . |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |
| HONOURS: Physics¹ (including Co-operative Option) 120 CREDIT HOURS | | | |
| PHYS 1050 (or PHYS 1020) and PHYS 1070 (B) (or PHYS 1030 (B+)) ² MATH 1300 ² , MATH 1500 ² , MATH 1700 ² COMP 1012 ⁵ 6 credit hours from the Faculty of Arts including the "W" requirement. | PHYS 2260 or PHYS 2610 PHYS 2386, PHYS 2496, PHYS 2600, PHYS 2650 MATH 2090, MATH 2720 | PHYS 3386, PHYS 3430 (6), PHYS 3650, PHYS 3670, PHYS 3496, PHYS 3630 | PHYS 4676, PHYS 4678, PHYS 4386, PHYS 4646, PHYS 4680 6 credit hours of 4000-level Physics |
| 6 credit hours of open electives | 9 credit hours of open electives ³ | 9 credit hours of open electives ³ | 9 credit hours of open electives ³ |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |
| HONOURS: Medical and Biological¹ (including Co-operative Option) 120 CREDIT HOURS | | | |
| PHYS 1050 (or PHYS 1020), PHYS 1070 ² (B) (or PHYS 1030 (B+)) MATH 1300 ² , MATH 1500 ² , MATH 1700 ² BIOL 1020, BIOL 1030 | PHYS 2386, PHYS 2496, PHYS 2600, PHYS 2610, PHYS 2650 PHYS 2270 or | PHYS 3386, PHYS 3430 (6), PHYS 3670, PHYS 3630, PHYS 3220, PHYS 3496 STAT 1150 ⁶ 6 credit hours of open electives | PHYS 4646, PHYS 4680, PHYS 4250, PHYS 4516, PHYS 4676, PHYS 4678 PHYS 4360 or PHYS 4400 9 credit hours of open electives |

| | | | |
|--|---|---|---|
| COMP 1012 ⁵ 6 credit hours from the Faculty of Arts including the "W" requirement | PHYS 2272 MATH 2090, MATH 2720 6 credit hours of open electives | | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |
| FOUR YEAR MAJOR (including Co-operative Option) 120 CREDIT HOURS | | | |
| PHYS 1050 (C+) (or PHYS 1020 (B)), PHYS 1070 ^{2,4} (C+) (or PHYS 1030 (B)) MATH 1300 ² , MATH 1500 ² , MATH 1700 ² COMP 1012 ⁵ 6 credit hours from the Faculty of Arts including the "W" requirement | PHYS 2260 or PHYS 2610 ⁴ PHYS 2386, PHYS 2496, PHYS 2600 MATH 2720 | PHYS 2650 ⁴ , PHYS 3670, PHYS 3496 MATH 2090 6 credit hours of 3000 level Physics and Astronomy | PHYS 3386, PHYS 3430 (6), PHYS 3630 3 credit hours of 3000 level Physics and Astronomy 3 credit hours of 4000 level Physics and Astronomy |
| 6 credit hours of open electives | 15 credit hours of open electives ³ | 12 credit hours of open electives ³ | 12 credit hours of open electives ³ |
| | | Co-op Requirements (if selected): SCI 3980, SCI 3990, and SCI 4980, and SCI 4990 (if a 4 th work term is selected) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| THREE YEAR GENERAL 90 CREDIT HOURS | | | |

| | |
|---|---|
| PHYS 1050 (C) (or PHYS 1020 (C+)) and PHYS 1070 (C) (or PHYS 1030 (C+)) | A minimum of 18 credit hours of 2000, 3000, and (or) 4000 level Physics or Astronomy courses (Subject to the Faculty requirement that of the 36 hours of advanced level courses, at least 6 credit hours must be chosen from the 3000 and (or) 4000 level.) |
| MINOR | |
| PHYS 1050 (C) (or PHYS 1020 (C+)) and PHYS 1070 (C) (or PHYS 1030 (C+)) | A minimum of 12 credit hours of 2000, 3000, and (or) 4000 level Physics or Astronomy courses. |
| JOINT HONOURS: PHYSICS – CHEMISTRY refer to section 4.5.5 | |
| JOINT HONOURS: PHYSICS – COMPUTER SCIENCE (including Co-operative Option) refer to section 4.6.4 | |
| JOINT HONOURS: PHYSICS – MATHEMATICS refer to section 4.9.2.8 | |

NOTES:

¹ Students must achieve a minimum grade of "C" in all courses contributing to the Honours program.

² PHYS 1050 and PHYS 1070 are recommended. MATH 1220 may be taken in place of MATH 1300; MATH 1230 or MATH 1510 or MATH 1520 may be taken in place of MATH 1500; MATH 1232 or MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

³ Although they are not required courses in the Physics programs, MATH 2080, MATH 2180, and MATH 3340 are recommended electives for the Physics Honours and Four Year Major degrees.

⁴ Students who do not take PHYS 1070 or PHYS 1030 in Year 1 must postpone PHYS 2600 until Year 3. PHYS 2260, PHYS 2610 and PHYS 2650 may be taken in Year 2 or Year 3 if the respective prerequisites are met.

⁵ Students who have already taken COMP 1010 before joining the program may count COMP 1010 in lieu of COMP 1012. However, students who have not taken COMP 1010 before entering the program must then take COMP 1012.

⁶ Students may take STAT 1000 and STAT 2000 in lieu of STAT 1150.

IMPORTANT: The Honours and four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates the recommended arrangement of the required courses and is meant to be a guide around which students can plan their program (Letters in brackets refer to minimum prerequisite standing required for further study. The number 6 in brackets indicates a 6 credit hour course).

4.11.3 Astronomy Courses**ASTR 1810 Introduction to Astronomy: The Magnificent Universe****Cr. Hrs. 3**

(Lab Required) This introductory astronomy course surveys our magnificent Universe. The topics covered in this course outline the properties of stars and planets that can be observed and the physics necessary to interpret these observations. It also includes an introduction to galaxies and cosmology. Using lectures and laboratory sections, it provides an astronomy background and introduction to the scientific method. It ranges from introductory physical background to considering current research problems. This course is taught with algebra and trigonometry used frequently. May not be held with the former PHYS 1810. Prerequisites: (one of Physics 40S, PHYS 0900 (P), or equivalent) and (70% or better in one of Pre-calculus Mathematics 40S, Applied Mathematics 40S, or equivalent). It is strongly recommended that students attain a minimum of 70% as the average of their marks in Physics 40S and Pre-calculus Mathematics 40S.

ASTR 1830 Life in the Universe**Cr. Hrs. 3**

This descriptive, general interest course explores the topic of life in the universe. Some of the following topics will be covered. (1) Some astronomy fundamentals (gravity, light). (2) The solar system (an introduction to the solar system, the formation of the solar system, the origin of life on Earth, extremophiles, the conditions needed for life, possible locations for life in the solar system). (3) Exoplanets (discovery methods, properties of detected Exoplanets, the Habitable Zone). (4) Star system formation (pre-stellar disks, planetary migration). (5) The Interstellar medium (nebulae, molecular clouds). (6) Our Milky Way galaxy as an environment for life and the Drake Equation. (7) The Search for Extra Terrestrial Intelligence (SETI). This course is qualitative with simple arithmetic and trigonometry used occasionally. May not be held with the former PHYS 1830

ASTR 2000 Foundations of Astrophysics**Cr. Hrs. 3**

This course covers the foundations of astrophysics, with emphasis on the core physical principles and processes that govern astronomical phenomena. The course emphasizes how the physics of matter, radiation, gravity, magnetic fields, and the interaction between light and matter can be used to understand a range of astrophysical phenomena, including fundamental processes, fascinating energetic objects, and topics at the forefront of modern research. Prerequisites: (a grade of "C" or better in one of PHYS 1070, PHYS 1071, or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031) and (a "C" or better in one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710, or the former MATH 1730) or permission of the department. ASTR 1810 is recommended.

ASTR 2070 Observational Astronomy Techniques**Cr. Hrs. 3**

(Lab Required) Students will learn the basic astronomy tools and practical concepts pertaining to observational astronomy. Lecture topics include spectroscopy, the optics of mirrors and lenses relevant to telescopes, types of telescopes, and factors that affect the quality of astronomical observations. The practical aspects include observational project development, and hands-on telescope experience using the University of Manitoba's Ewen Campus Observatory (ECO) and the Glenlea Astronomical Observatory (GAO) as well as smaller 8-inch portable telescopes. May not be held with the former PHYS 2070. Prerequisites: (a "C" or better in one of PHYS 1070, PHYS 1071, or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031) and (a "C" or better in one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710, or the former MATH 1730) and (one of ASTR 1810, the former PHYS 1810, ASTR 1830, the former PHYS 1830, or ASTR 2000) or permission of the department.

ASTR 3070 Observational Astronomy Project**Cr. Hrs. 3**

(Lab Required) Students will learn to develop and execute an observational research project. Students will choose their research topic with the constraint that the data be collected using the University of Manitoba's Astronomical Observatory at Glenlea Astronomical Observatory and the Ewen Campus Telescopes. The optical observational data will be supplemented by archival data from professional research telescopes such as the Hubble Space Telescope, Chandra X-ray Observatory and others. The course covers the determination of observational constraints, the use of filters, methods of data analysis, and interpretation of results. The research

project will be written into a report and presented. Not to be held with the former PHYS 2070. Prerequisite: ASTR 2070 or permission of the department.

ASTR 3180 Stars Cr. Hrs. 3

This course provides an overview of the physics of stars, including all phases of stellar evolution: from star formation, to the main-sequence phase, to star death, to the formation of degenerate or compact remnants such as white dwarfs, neutron stars and black holes. Topics include radiative transfer, stellar structure and atmosphere, nuclear fusion, stellar evolution, degenerate stars, and other exotic forms of compact stellar remnants. May not be held with the former PHYS 3180. Prerequisite: ASTR 2000 or permission of the department.

ASTR 3230 The Phenomenology of Galaxies Cr. Hrs. 3

This course investigates galaxies from the perspective of recent observational data, exploring characteristics that theories have yet to explain. Topics include sources of their radiation, such as stars, gas and dust; their structure and kinematics, which indicate the existence of dark matter; and their formation and evolution, which has implications for cosmological studies. May not be held with the former PHYS 4230. Prerequisite: ASTR 2000 or permission of the department. ASTR 2070 or ASTR 3180 is recommended.

ASTR 4020 Cosmology and Black Holes Cr. Hrs. 3

Topics include static solutions of Einstein's equations, gravitational waves, static models for stars (white dwarfs, neutron stars), dynamic models for stars (Birkhoff theorem, black holes), and cosmology (Robertson-Walker metric, Friedmann equations). Further topics discussed in the course are cosmic inflation, dark matter and energy, as well as large-scale structure of the universe. May not be held with the former PHYS 4020. Prerequisite: PHYS 4010.

ASTR 4100 High-Energy Astrophysics Cr. Hrs. 3

This course provides an overview of the field of high-energy astrophysics and of high-energy missions, with emphasis on X-ray and gamma-ray astrophysical sources and relevant radiation processes. Radiation and high-energy processes include synchrotron radiation, bremsstrahlung, Inverse Compton scattering, pion decay, and particle acceleration. Astrophysical sources include accreting compact objects, supernovae and their remnants, gamma-ray bursts, and clusters of galaxies. The course can include topics relevant to nuclear astrophysics and will train students in writing observing proposals for high-energy facilities. May not be held with PHYS 4300 when the topic is "High-Energy Astrophysics". Prerequisites: (PHYS 2386 or the former PHYS 2380) and PHYS 2600 and PHYS 3670. ASTR 2000 is recommended.

ASTR 4200 Radio Astronomy Cr. Hrs. 3

This course will provide an introduction to observational radio astronomy and processes in radio astrophysics. Topics will include: an introduction to radio astronomy; basic radiative transfer; blackbody radiation and radiation from an accelerated charge; radio telescopes, receivers, and interferometers; thermal continuum sources (e.g., HII regions); non-thermal continuum sources (e.g., radio galaxies); pulsars; and spectral-line sources (e.g., the 21 cm line, radio recombination lines, and rotational energy transitions in simple molecules). May not be held with PHYS 4300 when the topic taught is "Radio Astronomy." Prerequisites: (PHYS 2386 or the former PHYS 2380) and PHYS 2600 and PHYS 3670. ASTR 2000 is recommended.

ASTR 4400 Magnetohydrodynamics, Astrophysical Plasmas, and the Interstellar Medium Cr. Hrs. 3

This course develops a theoretical understanding of interstellar magnetic fields for a diverse range of astrophysical objects, processes, and phenomena. The theoretical aspects of magnetohydrodynamics (MHD),

including waves, shocks, instabilities, and turbulence are discussed. MHD and plasma physics are applied to the magneto-ionic interstellar medium of our galaxy, including supernova remnants. Magnetic fields in molecular clouds and cores are examined, with emphasis on their role in star formation. The course also develops a theoretical foundation for the physics of cosmic ray diffusion and acceleration. Prerequisites: PHYS 3630 and PHYS 3670.

4.11.3 Physics and Astronomy Course Descriptions-0 Level

PHYS 0900 Preparing for University Physics Cr. Hrs. 0

A review of elementary physics, emphasizing the laws of mechanics, for students considering enrolling in a first-year university physics course. Mathematical techniques used in solving physics problems and the relevance of physics to everyday life will be stressed. Although this course may be used as part of the prerequisite requirements for first-year Physics courses, students are encouraged to take Physics 40S whenever possible.

4.11.3 Physics and Astronomy Course Descriptions-1000 Level

PHYS 1020 General Physics 1 Cr. Hrs. 3

(Lab Required) It's a crazy world; come and find out why objects fall, slide, bounce, stick, go in circles or stay straight, float or sink, glide or crash. Why don't satellites fall to the ground? What exactly does weightlessness mean anyway? Find answers to these and other questions as you get to know Newton's and other basic laws of nature and see what makes the world go round. This course, together with the sequel PHYS 1030, is recommended for students seeking either a single, comprehensive course in Physics or entry into health science programs. It may also be used for entry into the Honours Physics program ("B+" or better) or the Major Physics program ("B" or better). May not be held with PHYS 1021, PHYS 1050, PHYS 1051, the former PHYS 1410, or the former PHYS 1420. Prerequisites: (one of Physics 40S, PHYS 0900 (P), PSKL 0100 (P) offered by Extended Education, or equivalent) and (one of Pre-calculus Mathematics 40S, Applied Mathematics 40S (with 70% or better), a grade of "C" or better in MSKL 0100 offered by Extended Education, or equivalent). It is strongly recommended that students attain a minimum of 70% as the average of their marks in Physics 40S and Pre-calculus Mathematics 40S.

PHYS 1030 General Physics 2 Cr. Hrs. 3

(Lab Required) Discover how physics is the basis of the hi-tech world we live in and how we live in it. Learn how to use simple, intuitive physics concepts that are described using little math and no calculus to understand a diversity of topics including how electricity is made, what drives the greenhouse effect, what makes a diamond sparkle, lasers, LASIC eye surgery and the workings of the human eye. This course, together with its prerequisite PHYS 1020, is recommended for students seeking either a single comprehensive course in Physics, or entry into health science programs. This course may not be held with PHYS 1031, the former PHYS 1410 the former PHYS 1420. Prerequisite: one of PHYS 1020, PHYS 1021, PHYS 1050, or PHYS 1051.

PHYS 1050 Physics 1: Mechanics Cr. Hrs. 3

(Lab required) It's rocket science! Mechanics is the science of describing (Kinematics) and explaining (Dynamics) motion. The basic concepts of calculus together with laws of conservation of momentum and energy are used to develop the tools required to describe, analyze and predict the outcomes of linear and rotational motion in simple mechanical systems. A brief introduction to the Einstein theory of special relativity provides a taste of modern approaches to this subject. This course develops a strong scientific foundation for students considering a program of study in engineering or the physical sciences. May not be held with PHYS 1020, PHYS 1021, PHYS 1051, the former PHYS 1410, or the former PHYS 1420. Prerequisite: one of Physics 40S (60% or better), PHYS 0900 (P) or PSKL 0100 (P) offered by Extended Education, or equivalent. Pre- or corequisite: one of

MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1530, or MATH 1690.

PHYS 1070 Physics 2: Waves and Modern Physics Cr. Hrs. 3

(Lab Required) At the heart of modern communications, waves and oscillations are key to understanding the world around us from subatomic scales to biology, traffic flow, the stock market, climate change and the cosmos itself. Learn about the mysterious quantum world, the basis of the latest nanotechnology, where particles are waves and waves are particles. Explore Bohr's model of the atom and discover Heisenberg's Uncertainty Principle. This calculus based course addresses the underlying concepts for all modern science and engineering. This course, like Physics 1 (PHYS 1050), is intended for students considering a program in the physical sciences. May not be held for credit with PHYS 1071, the former PHYS 1410, the former PHYS 1420, or PHYS 2152. Prerequisites: (a grade of "C" or better in PHYS 1050 or PHYS 1051) or (a grade of "B" or better in PHYS 1020 or PHYS 1021) and (a grade of "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, or the former MATH 1530). Pre- or corequisite: one of MATH 1232, MATH 1700, MATH 1701, MATH 1690, MATH 1710, or the former MATH 1730. Recommended for entry into the Honours programs (with a grade of "B").

4.11.3 Physics and Astronomy Course Descriptions-2000 Level

PHYS 2010 Computational Modeling of Natural and Human-Created Systems Cr. Hrs. 3

This course uses computer simulations to explore emergent behavior in simple models of natural phenomena, traffic, financial systems, and human behavior. The goal of the course is to show how computational modeling can be applied to exciting interdisciplinary problems spanning a wide range of human knowledge, beyond what is normally considered to be physics. Prerequisites: (one of COMP 1012, COMP 1013, COMP 1010 or COMP 1011) and (one of PHYS 1020, PHYS 1021, PHYS 1050, or PHYS 1051) and (one of MATH 1220, MATH 1300, MATH 1301, or the former MATH 1310) and (one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1530, or MATH 1690).

PHYS 2152 Modern Physics for Engineers Cr. Hrs. 3

(Lab Required) An overview of topics in modern physics including wave particle duality, atomic structure and quantum mechanics. Elementary classical electromagnetic theory and wave theory are reviewed as an introduction to the modern physics concepts. For Engineering students only. May not be held with PHYS 1070 or PHYS 1071. Prerequisites: a "C" or better in one of PHYS 1050, PHYS 1051; or a "B" or better in PHYS 1020 or PHYS 1021; and a "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520; and a "C" or better in one of MATH 1232, MATH 1700, MATH 1701, MATH 1710 or MATH 1690. Prerequisite or concurrent requirement: MATH 2130.

PHYS 2210 Understanding Electricity and Magnetism Cr. Hrs. 3

An introduction ranging from its history to connections with real-world phenomena in engineering and biology, and common sense on the understanding of the phenomena. The student is carefully guided through mathematical derivations. Physics is used to develop the theory and the applications of such things as motors, radios, magnetic resonance imaging (MRI) systems and computers. May not be held with the former PHYS 2200, or the former PHYS 2201, PHYS 2600 or PHYS 2610. Prerequisites: [(a "C" or better in PHYS 1070 or PHYS 1071) or (a "C+" or better in both of (PHYS 1020 or PHYS 1021) and (PHYS 1030 or PHYS 1031))] and [a "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520]. Pre- or corequisite: [MATH 1200 or the former MATH 1201 or MATH 1240 or MATH 1241] and [one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710].

PHYS 2260 Optics Cr. Hrs. 3

(Lab Required) A survey of refraction, reflection, simple lens systems and optical systems, dispersion, achromatism and an elementary treatment of diffraction, interference, and polarization. May not be held with PHYS 2261. Prerequisites: A "C" or better in PHYS 1050 or PHYS 1051, or a "C+" or better in PHYS 1020 or PHYS 1021; and a "C" or better in one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, or MATH 1690. Prerequisite or Corequisite: one of PHYS 1070, PHYS 1071, PHYS 1030, PHYS 1031 or PHYS 2152; and one of MATH 1220, MATH 1300, MATH 1301, or MATH 1310; and one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710.

PHYS 2270 Introductory Physics for Life Sciences: Fundamentals and Applications Cr. Hrs. 3

Physical topics with a relation to biology are discussed. Radiative transfer of energy, boundary layers, heat conduction, diffusion, mass transport, and the use of radioactive materials in biology are considered. May not be held with PHYS 2271 or PHYS 2272. Prerequisite: (a grade of "C" or better in PHYS 1050 or PHYS 1051) or (a "C+" or better in PHYS 1020, or PHYS 1021) or permission of the department.

PHYS 2272 Physics for Medicine & Biology Cr. Hrs. 3

An intermediate course in physics with relevant applications to Medical and Biological Physics. The course will cover key topics in mechanics, fluid dynamics, exponential growth and decay, equilibrium and entropy, modeling of transport by drift and diffusion, and electricity and magnetism, as applied to the human condition; Linear and nonlinear feedback, regression and the Fourier series for signal and image analysis will also be covered. May not be held with PHYS 2270 or the former PHYS 2271. Prerequisites: (a grade of "C" or better in one of PHYS 1070, PHYS 1071, or PHYS 2152) or (a grade of "C+" or better in one of PHYS 1030 or PHYS 1031) and (a grade of "C" or better in one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710, or the former MATH 1730).

PHYS 2350 Energy Sources: Physical Aspects Cr. Hrs. 3

A detailed investigation of the physical aspects of energy production and utilization. Critical comparison of the various energy sources including solar, nuclear, fossil, and wind will be emphasized. The physics of energy collection, production, storage, and distribution will be discussed in the context of thermodynamics, radiation, solid state and nuclear physics. Prerequisite: (a grade of "C" or better in one of PHYS 1070, PHYS 1071 or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031) or permission of the department.

PHYS 2386 Introduction to Quantum Mechanics and Special Relativity Cr. Hrs. 3

The first in a sequence of three courses on quantum mechanics, which also includes an introduction to the theory of special relativity. The topics covered include Einstein's postulates of special relativity, the Lorentz transformation, relativistic kinematics and dynamics and four vectors, kinetic theory of gases, cavity radiation and normal modes, Planck's quantization postulate and the Schrodinger theory of quantum mechanics. Special emphasis is placed on the derivation of the time dependent and time independent Schrodinger equation and its solutions in one dimension. May not be held with the former PHYS 2380. Prerequisites: (a "C" or better in one of PHYS 1070, PHYS 1071 or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031) and (a "C" or better in one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710, or the former MATH 1730).

PHYS 2390 Theoretical Physics 1 Cr. Hrs. 3

This course provides an introduction to the mathematics required for both the Honours and Major programs in Physics and Astronomy. Topics include series expansions, partial derivatives, vector calculus and integral theorems. Prerequisites: A "C" or better in PHYS 1050 or PHYS 1051, or a "C+" or better in PHYS 1020 or PHYS 1021; and a grade of "C" or better in one of MATH

1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710. Pre- or Corequisite: one of PHYS 1070 or PHYS 1071 or PHYS 1030 or PHYS 1031.

PHYS 2490 Theoretical Physics 2 Cr. Hrs. 3

This course provides a continuation of the introduction to the mathematics required for both the Honours and Major programs in Physics and Astronomy. Topics include Fourier series, differential equations, special functions, boundary value problems and transform methods. Prerequisite: PHYS 2390.

PHYS 2496 Mathematical Physics 1 Cr. Hrs. 3

This course provides a continuation of the mathematics required for both the Honours and Major programs in Physics and Astronomy. Topics include sequences and series of functions, distributions, ordinary differential equations, Fourier series and transforms, and an introduction to probability and statistics. May not be held with PHYS 2490. Prerequisite: one of PHYS 2390, MATH 2720, MATH 2721, MATH 2130, MATH 2150 or MATH 2151.

PHYS 2600 Electromagnetic Field Theory Cr. Hrs. 3

(Lab Required) Electric field, electric potential, Gauss' law, capacitors, dielectric materials, magnetic fields, Ampere's law, magnetic induction, magnetic materials, displacement current, integral form of Maxwell's equations. In addition to the lectures, the course includes a tutorial session of two hours per week. May not be held with PHYS 2200 or PHYS 2201. Prerequisites: a "C" or better in one of PHYS 1070, PHYS 1071, or PHYS 2152, or a "C+" or better in PHYS 1030 or PHYS 1031; and a "C" or better in one of MATH 1232, MATH 1690, MATH 1700, MATH 1701, MATH 1710.

PHYS 2610 Circuit Theory and Introductory Electronics Cr. Hrs. 3

(Lab Required) Ohm's law, Kirchhoff's laws, DC circuit analysis, equivalent circuits, AC circuit analysis, complex impedance, RLC circuits, magnetic coupling, transformers, diodes and diode circuits. May not be held with PHYS 2200 or PHYS 2201. Prerequisite: PHYS 2600 (C).

PHYS 2650 Classical Mechanics 1 Cr. Hrs. 3

The first in a sequence of two courses on intermediate to advanced level mechanics. Topics include inertial and non-inertial reference frames, Newton's second law in cylindrical and spherical coordinates, oscillations, motion of a projectile with air resistance, rotational motion of rigid bodies, as well as gravitation and central force motion. Prerequisite: (a "C" or better in one of PHYS 1070, PHYS 1071, or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031). Pre- or corequisite: one of PHYS 2496, PHYS 2490 or MATH 3132.

4.11.3 Physics and Astronomy Course Descriptions-3000 Level

PHYS 3220 Medical Physics and Physiological Measurement Cr. Hrs. 3

This course will introduce the core subject areas of Medical Physics, in particular the physics of physiology and of radiology. The mechanics of body systems and the theory, medical applications and safety issues relating to the production, use, detection and measurements of electromagnetic radiation (both ionizing and non-ionizing) will be included. It will also cover Medical imaging (Ultrasound, CT and MRI) and will provide the student with an understanding of the physics underlying neurological, audiological, respiratory and vascular function and measurements. Prerequisite: (a grade of "C" or better in one of PHYS 1070, PHYS 1071 or PHYS 2152) or (a "C+" or better in PHYS 1030 or PHYS 1031) or permission of the department. PHYS 2270 or PHYS 2272 is recommended.

PHYS 3386 Quantum Mechanics 2 Cr. Hrs. 3

The second in the sequence of three courses on quantum mechanics which includes mathematical Hilbert space formalism, solutions of the Schrodinger equation in three dimensions with a special emphasis on central potentials, spin, angular momentum, ladder operators, Clebsch-

Gordon coefficients and time-independent perturbation theory. May not be held with the former PHYS 3380. Prerequisites: (PHYS 2386 or the former PHYS 2380) and (one of PHYS 2496, PHYS 2490, or MATH 3132). PHYS 3496 is recommended.

PHYS 3430 Honours Physics Laboratory Cr. Hrs. 6

Six hours per week. This is a hands-on course of experimental essentials of modern physics. Prerequisites: one of PHYS 2260, PHYS 2261, PHYS 2610 or ECE 2160, or permission of the department.

PHYS 3496 Mathematical Physics 2 Cr. Hrs. 3

This course provides a continuation of the mathematics required for both the Honours and Major programs in Physics and Astronomy. Topics include complex analysis, generalized coordinate systems, Sturm-Liouville theory and generalized orthogonal functions, partial differential equations, and applications in physics. Prerequisite: PHYS 2496 or PHYS 2490. MATH 2090 or the former MATH 2300 is recommended.

PHYS 3570 Physics of Materials 1 Cr. Hrs. 3

Introduction to the physics of materials. Solids within the elastic limit: stress and strain tensors, elastic constants. Liquids: continuity equation, Bernoulli, Euler and Navier-Stokes equations. Pre- or corequisite: PHYS 3386 or the former PHYS 3380.

PHYS 3630 Electro - and Magnetostatic Theory Cr. Hrs. 3

Material covered will include electrostatics (i.e. Gauss' Law, Laplace and Poisson equations) and magnetostatics (Lorentz force, Maxwell equations) as well as the properties of electrostatic fields in matter and magnetism in materials. Prerequisites: PHYS 2600 and (one of PHYS 2496, PHYS 2490, or MATH 3132) or permission of the department. PHYS 3496 is recommended.

PHYS 3650 Classical Mechanics 2 Cr. Hrs. 3

The second in a sequence of two courses on intermediate to advanced level mechanics. Topics include calculus of variations, Lagrangian and Hamiltonian dynamics, canonical equations using Poisson brackets, nonlinear oscillations and chaos, coupled oscillations, and the wave equation in continuous media. Prerequisite: PHYS 2650. Pre- or corequisite: one of PHYS 3496, PHYS 2490, or MATH 3132.

PHYS 3670 Classical Thermodynamics Cr. Hrs. 3

An introduction to the laws of classical equilibrium thermodynamics and their applications. Prerequisite: one of PHYS 2496, PHYS 2490 or MATH 3132.

4.11.3 Physics and Astronomy Course Descriptions-4000 Level

PHYS 4010 General Relativity and Gravitation Cr. Hrs. 3

The course briefly covers Newtonian gravity, special relativity and Minkowski space, before moving on to relativistic electrodynamics with the focus on the energy-momentum tensor, relativistic hydrodynamics, non-inertial reference frames and the principle of covariance and Einstein's field equations, linearized field equations and gravitational waves, as well as Schwarzschild's solution with the application to a static black hole. Prerequisites: PHYS 3650 and (PHYS 3496 or PHYS 2490) or permission of the department. Pre- or corequisite: PHYS 4646 or the former PHYS 3640.

PHYS 4250 Computational Physics Cr. Hrs. 3

Application of numerical methods and programming skills to model a variety of physics problems on a computer. Topics include differential equations, boundary value and eigenvalue problems, special functions, and Monte Carlo methods, with examples from classical, quantum, and statistical mechanics. Prerequisites: (one of COMP 1012, COMP 1013, COMP 1010, or COMP 1011) and (PHYS 3496 or PHYS 2490) or permission of the department.

PHYS 4300 Topics in Physics Cr. Hrs. 3

Topics will vary depending upon student needs and interests, and will include specialized topics not available in regular course offerings. Prerequisite: PHYS 3386 or the former PHYS 3380, or permission of the department.

PHYS 4360 Medical Radiation Physics Cr. Hrs. 3

The relevant physics of the production and interaction of radiation beams used in both diagnostic and therapeutic medicine will be covered. Such beams included X- and g-rays, particle beams, visible and I.R. radiation, microwaves, and ultrasound. Prerequisite: PHYS 3220 or the former PHYS 4560 or permission of the department.

PHYS 4386 Quantum Mechanics 3 Cr. Hrs. 3

The third in the sequence of three courses on quantum mechanics which includes systems of identical particles, variational methods, time-dependent perturbation theory and scattering theory. May not be held with the former PHYS 4390. Prerequisites: (PHYS 3386 or the former PHYS 3380) and (PHYS 3496 or PHYS 2490).

PHYS 4400 Medical Imaging Cr. Hrs. 3

Fundamental principles of image formation, analysis of the characteristics of medical images, parametric description of image quality; application to transmission radiography. Prerequisite: PHYS 3220 or permission of the department.

PHYS 4516 Introduction to Nuclear and Particle Physics Cr. Hrs. 3

Bulk properties of the atomic nucleus; nuclear models, nuclear disintegration; alpha-decay, gamma transitions, and beta-decay; scattering formalism and experiments; evidence for quark structure and properties of the hadrons (neutrons, protons, mesons); basic introduction to QCD; basic intro to the weak interaction and neutrino physics; basic introduction to the standard model. May not be held with the former PHYS 4510. Prerequisites: (PHYS 3386 or the former PHYS 3380) and (PHYS 4646 or the former PHYS 3640).

PHYS 4520 Introduction to Solid State Physics Cr. Hrs. 3

An introduction to the following topics as they relate to the properties of solids: crystal structure and lattice energy; lattice vibrations; specific heat; free-electron gas; electronic band structure; metals, semiconductors and insulators. Prerequisite: (PHYS 3386 or the former PHYS 3380) and (PHYS 4680 or the former PHYS 3680).

PHYS 4590 Advanced Optics Cr. Hrs. 3

Light as a classical electromagnetic wave, optical fields in media, interference by wavefront and amplitude splitting, diffraction, diffraction theory of image formation, spatial filtering and image processing, coherence theory. Prerequisites: (PHYS 2260 or PHYS 2261) and (PHYS 4646 or the former PHYS 3640).

PHYS 4600 Lasers and Applications Cr. Hrs. 3

Light and atoms: semi-classical theory, principles of laser operation and properties of laser light, polarization optics, Gaussian beam optics, laser spectroscopy. Prerequisites: (PHYS 2260 or PHYS 2261) and (PHYS 3386 or the former PHYS 3380).

PHYS 4620 Advanced Classical Mechanics Cr. Hrs. 3

Canonical invariants and Lagrange and Poisson brackets. Hamilton-Jacobi theory, action-angle variables, normal modes of vibration. Prerequisite: PHYS 3650 and PHYS 3496.

PHYS 4630 Physics of Materials 2 Cr. Hrs. 3

Physics of materials beyond the elastic limit, emphasizing atomistic features. Structural aspects, crystal defects, plastic deformation, radiation damage, diffusion and dislocations. Prerequisite: PHYS 3570 (C).

PHYS 4646 Electro - and Magnetodynamics and Special Relativity Cr. Hrs. 3

Topics covered will include time dependent Maxwell's equations, Ohm's and Faraday's Law, electromagnetic waves, potential and fields, radiation, and special relativity including the Lorentz transformations. May not be held with the former PHYS 3640. Prerequisites: PHYS 3630 or ECE 3590. Pre- or corequisite: one of PHYS 3496, PHYS 2490, or MATH 3132.

PHYS 4676 Honours Thesis - Proposal and Preparation Cr. Hrs. 3

For students in term 1 of their final year in Honours. The student will prepare a proposal for the undergraduate thesis and demonstrate the feasibility of the project under the supervision of a faculty member. The results of the study will be presented (in written and oral form) to an examining committee during the term. Both experimental and theoretical topics are acceptable. A grade of C (based on the presentations) is required to proceed to the next course which forms the final stage of the honours thesis. May not to be held with the former PHYS 4670 or the former PHYS 4672. Prerequisites: PHYS 3430 and permission of the department.

PHYS 4678 Honours Thesis - Dissertation Cr. Hrs. 3

For students in term 2 of their final year in Honours. The student will complete the work needed and produce an undergraduate thesis under the supervision of a faculty member. The grade will be based on the examining committee's evaluation of a progress report (presented mid-term) and an evaluation of the thesis manuscript and oral presentation at the end of term. Both experimental and theoretical topics are acceptable. May not be held with the former PHYS 4670, the former PHYS 4672, or the former PHYS 4674. Prerequisite: permission of the department.

PHYS 4680 Statistical Mechanics Cr. Hrs. 3

Principles of statistical mechanics and their applications. Topics include phase space, Liouville and Poincare theorem, statistical ensembles, entropy, ideal classical gas, photon gas, Fermi gas, Bose-Einstein condensation, models of magnetism, and phase transitions. May not be held with the former PHYS 3680. Prerequisites: (PHYS 2386 or the former PHYS 2380) and PHYS 3670. Pre- or corequisite: PHYS 3496 or PHYS 2490.

4.12 Psychology Program

Head: Dan Bailis

Campus Address/General Office: P404 Duff Roblin Bldg.

Telephone: 204 474 9338

Email Address: psychugadvisor@umanitoba.ca

psychughead@umanitoba.ca

Website: <http://www.umanitoba.ca/psychology/>

4.12.1 Program Information

Psychology is the scientific study of behaviour and mental processes, including the biological bases of behaviour and cognitive processes, and behavioural and cognitive neuroscience. The Honours and Major programs combine courses in Psychology with related courses in Science. Courses from the Faculty of Arts are included in this program. The Faculty of Science offers programs leading to a B.Sc. (Honours) degree in Psychology and a B.Sc. (Major) degree in Psychology.

Honours

To enter the Honours program, students must have obtained a grade of "B" or better in PSYC 2260 and a grade of "B" in six credit hours in courses offered by the Faculty of Science. In addition, students must have obtained

a degree grade point average of 3.50. Introductory courses in Biological Sciences, Chemistry, Computer Science, Mathematics or Statistics are highly recommended.

Students will normally take PSYC 2260 in Year 2 and enter Honours in Year 3. Students who qualify for entry to the 4-Year Major in Psychology after Year 1 should choose that option. See the 4-Year Major entry requirements for details.

To continue in the Honours program, a student must register in a minimum of 9 credit hours in each Fall and Winter Term and must meet all of the continuation criteria of the Faculty of Science. In addition, students must maintain a minimum degree grade point average of 3.50 based on all courses in the program. Students who do not meet the minimum continuation requirement will be required to withdraw from the Honours program.

To graduate, a student must obtain 120 credit hours of courses with grades of "C" or better in each course and with a minimum degree grade point average of 3.00. In addition, students must complete the program of study in the chart below.

Four Year Major

To enter the Major program, students must normally have obtained a grade of C+ or better in PSYC 1200 (or in both PSYC 1211 and PSYC 1221) and in six credit hours in courses offered by the Faculty of Science and meet the Faculty of Science requirements for entry to the Major program. Introductory courses in Biological Sciences, Chemistry, Computer Science, Mathematics, or Statistics are highly recommended.

To continue in the Major program, a student must meet all of the continuation criteria of the Faculty of Science. This includes maintaining a minimum DGPA of 2.00 at each point of assessment, and no more than 18 credit hours of failing grades after entry to the program. Students who do not meet the minimum continuation requirement will be required to withdraw from the Major program. The department must approve a student's Major program for each session. All program revisions must also have prior approval.

To graduate with the degree of Bachelor of Science (Major), a student must complete 120 credit hours of courses with passing grades (D or better) in each course, with a minimum DGPA of 2.00. In addition, the student must complete the program of study as listed in the program chart below.

NOTE: Psychology cannot be used to fulfill either the introductory or advanced level Science requirements in the 3-year B.Sc. General Degree.

4.12.2 Psychology

| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|---|---|---|--|
| HONOURS⁸ 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| PSYC 1200 (or PSYC 1211 and PSYC 1221) (6) 6 credit hours Science ¹ (B) | PSYC 2250, PSYC 2260 (B) 6 credit hours 2000 or 3000 level ² Psychology | PSYC 3200, PSYC 3340, PSYC 3630 3 credit hours from PSYC | PSYC 4520 (6) 18 credit hours Psychology ⁴ |

| | | | |
|--|---|--|--|
| | 15 credit hours Science ⁵ 3 credit hours options ⁶ | 3520, PSYC 3560, PSYC 3590 or a 4000 level PSYC course 9 credit hours Psychology ³ 9 credit hours Science ⁵ | 6 credit hours Science ⁵ |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| FOUR YEAR MAJOR^{8,9} 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| PSYC 1200 (C+)(or PSYC 1211 (C+) and PSYC 1221(C+)) (6) 6 credit hours Science ¹ (C+) | PSYC 2250, PSYC 2260 6 credit hours 2000 or 3000 level Psychology ⁷ | 18 credit hours 2000 or 3000 level Psychology ⁷ | 18 credit hours 2000 or 3000 level Psychology ⁷ |
| | | Plus 30 credit hours of courses from departments in the Faculty of Science, including a minimum of 18 credit hours at the 2000 level or above ⁵ . | |
| A "W" course must be taken in Year 1 or Year 2 | | | |
| MINOR | | | |
| PSYC 1200 or (PSYC 1211 and PSYC 1221) | 12 credit hours in Psychology courses numbered at the 2000 or 3000 level | | |
| <p>NOTES:</p> <p>¹ Introductory courses in Biological Sciences, Chemistry, Computer Science, Mathematics, or Statistics are highly recommended.</p> <p>² These 6 credit hours must include 3 credit hours from each of two different lettered categories of Psychology courses below.</p> <p>³ These 9 credit hours must include 3 credit hours from each of two different lettered categories of Psychology courses below and not sampled in Year 2.</p> <p>⁴ These 18 credit hours must include 6 credit hours at the 4000 level; and 6 credit hours at any level including any remaining lettered category below.</p> | | | |

⁵ The Science courses that are chosen must be approved by the Department of Psychology and must include a minimum of 18 credit hours at the 2000 level or above.

⁶ Free options are to be chosen from courses that are acceptable for credit in the Faculty of Science and must be approved by the Department of Psychology.

⁷ During Years 2 to 4 a total of 42 credit hours of 2000 or 3000 level Psychology courses must be completed, including a minimum of 3 credit hours from each of the five lettered categories of courses below.

⁸ The courses required in this program satisfy the university mathematics requirement.

⁹ **IMPORTANT:** The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

(Letters in brackets indicated minimum prerequisite standing required for further study. The number 6 in brackets indicates a 6 credit hour course.)

Categories of Psychology Courses

| | | |
|-------------|--------------------|---------------------------------|
| Category A: | Personality/Social | PSYC 2490, PSYC 2530, PSYC 2540 |
| Category B: | Developmental | PSYC 2290 |
| Category C: | Learning | PSYC 2440, PSYC 2470 |
| Category D: | Cognitive | PSYC 2480 |
| Category E: | Biological | PSYC 2360 |

Psychology Courses

All Psychology courses are available to Science students. For a complete course listing, see the Faculty of Arts section.

Psychology courses taught at the Université de Saint-Boniface can be used to satisfy degree requirements

4.13 Department of Statistics

Head: Liqun Wang
Campus Address/General Office: 318 Machray Hall
Telephone: 204 474 8172
Email Address: Stats_Dept@umanitoba.ca
Website: umanitoba.ca/statistics/

4.13.1 Program Information

Statistics is a discipline grounded in mathematics that has practical applications in many other areas. Statistics is an analytical discipline that

helps other disciplines carry out research projects and studies that involve measurement, comparison, and interpretation. Statistics is a useful ancillary subject to other sciences, the social sciences, and many of the professional programs. The department offers joint programs with Computer Science, Mathematics, Economics and Actuarial Mathematics.

Honours Requirements

To enter the Honours program in Statistics, a student must have completed at least 24 credit hours with a minimum DGPA of 3.00, and also obtained a minimum grade of "B" in STAT 2150.

STAT 1150, MATH 1220, MATH 1230, MATH 1232 and MATH 1240 are all requirements of the Statistics Honours degree program and students are strongly encouraged to take these courses in Year 1.

To continue in the Statistics Honours program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and minimum grade of "C" in each course that contributes to the 120 credit hours of the degree.

Four Year Major Requirements

To enter the Major Degree program in Statistics, a student must have completed at least 24 credit hours with a minimum DGPA of 2.00, and also obtained a minimum grade of "C+" in STAT 2150.

STAT 1150, MATH 1220, MATH 1230, MATH 1232 and MATH 1240 are all requirements of the Statistics Honours degree program and students are strongly encouraged to take these courses in Year 1.

To continue in the four year Major program a student must maintain a minimum DGPA of 2.00.

To graduate from the four year Major program a student must obtain a minimum DGPA of 2.00, and a minimum grade of "C" in each of the Major Program Specific courses (see below).

Major Program Specific Courses

All courses specified in the program charts below (excluding the required optional courses and electives).

The department must approve a student's four year Major program each session. Students must obtain departmental approval for any and all revisions to their programs.

In order to improve their academic backgrounds as well as job opportunities, students should carefully elect the optional courses in this program. They should particularly consider one of the following sequences of courses in Economics or Computer Science.

Economics: ECON 1010, ECON 1020, ECON 2010, ECON 2020, ECON 2030, ECON 3010, ECON 3020, ECON 3030, ECON 3040, ECON 4040, ECON 4042. (This list of courses is effective as of Fall 2015.)

Computer Science (Software and Artificial Intelligence): COMP 1010, COMP 1020, COMP 1500, COMP 1600, COMP 2080, COMP 2130, COMP 2140, COMP 3380, COMP 3440, COMP 4200, COMP 4380.

Computer Science (Numerical Analysis and Graphics): COMP 1010, COMP 1020, COMP 1500, COMP 1600, COMP 2080, COMP 2130, COMP 2140, COMP 2190, COMP 3140 or COMP 3490.

Honours and Major Co-operative Options

A co-operative education option is available for both Major and Honours students. Students should refer to [Section 3.5](#) of this chapter for further information on the Co-op programs.

Honours Co-op

The course, grade requirements and minimum DGPA requirement for entry and continuation in the Co-operative Option are the same as that for regular Honours program.

Students are required to complete the first and second year requirements of the program; and STAT 3470 and STAT 3480 before beginning their first co-op work term.

Major Co-op

The course and minimum grade requirements for entry and continuation in the Co-operative Option are the same as those required for the regular Major program. However, the entry and continuation DGPA requirement is set at a minimum of 2.5.

Students are required to complete the first and second year requirements of the program; and STAT 3470 and STAT 3480 before beginning their first co-op work term.

Three Year General

As prescribed with all other faculty regulations in Section 3.2, students in this program must select 18 credit hours of 2000, 3000, or 4000 level courses from each of two Science areas. To satisfy the requirement in the area of Statistics, students must take a minimum of 18 credit hours of 2000, 3000 and (or) 4000 level Statistics courses. STAT 2000 and STAT 2150 cannot be used towards this requirement.

4.13.2 Statistics Program Charts

| 4.13.2 Statistics | | | |
|--|--|--|--|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| HONOURS (Including Co-operative Option) 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| STAT 1150 ¹ MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | STAT 2400 MATH 2030, MATH 2080, (MATH 2150 or MATH 2720) | STAT 3050, STAT 3400, STAT 3470, STAT 3480, STAT 3800 | STAT 4100, STAT 4200, STAT 4520, STAT 4530 |
| The following courses must be taken in Year 1 or Year 2: COMP 1010 STAT 2150 (B) 6 credit hours from the Faculty of Arts, which should include the required "W" course | | 15 credit hours chosen from: STAT 3170, STAT 3380, STAT 3490, STAT 4170, STAT 4580, STAT 4590, STAT 4600, STAT 4630, STAT 4690, STAT 4700 with at least 9 credit hours at the 4000 level. 6 credit hours chosen from: MATH 2140, MATH 2160, MATH 2180, MATH 3340, MATH 3440, MATH 3460, MATH 3470, MATH 3472 12 credit hours of approved elective courses - including courses to be chosen | |

| | | | |
|---|--|---|---|
| | | from an area of application outlined in note 2 below. ² | |
| 21 credit hours of elective courses - including courses to be chosen from an area of application outlined in note 2 below. ² | | Co-op Requirements: STAT 3980 | Co-op Requirements: STAT 3990, STAT 4980, STAT 4990 (if a 4th work term selected) |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |
| HONOURS DOUBLE MINIMUM 120 CREDIT HOURS By arrangement with the departments concerned | | | |
| FOUR YEAR MAJOR4 (Including Co-operative Option) 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| STAT 1150 ¹ MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | STAT 2400 MATH 2030, MATH 2080, (MATH 2150 or MATH 2720) | STAT 3050, STAT 3400, STAT 3470, STAT 3480, STAT 3800 | STAT 4100, STAT 4200, STAT 4520, STAT 4530 |
| The following courses must be taken in Year 1 or Year 2: COMP 1010 STAT 2150 (C+) | | 15 credit hours chosen from: STAT 3170, STAT 3380, STAT 3490, STAT 4170, STAT 4580, STAT 4590, STAT 4600, STAT 4630, STAT 4690, STAT 4700 6 credit hours chosen from: MATH 2140, MATH 2160, MATH 2180, MATH 3340, MATH 3440, MATH 3460, MATH 3470, MATH 3472 12 credit hours of elective courses - including courses required for the chosen area of application outlined in note 3 below. ³ | |
| Co-op Requirements: STAT 3980 | | Co-op Requirements: STAT 3990, STAT 4980, STAT 4990 (if a 4th work term is selected) | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

| | |
|---|---|
| THREE YEAR GENERAL 90 CREDIT HOURS | |
| STAT 1150 ⁵ , STAT 2150 | STAT 2400, STAT 3400 12 additional credit hours of 2000, 3000, and (or) 4000 level Statistics courses ⁶ |
| MINOR: OPTION 1 | |
| STAT 1000 | STAT 2000, STAT 3000 9 additional credit hours of 2000, 3000, or 4000 level Statistics courses |
| MINOR: OPTION 2 | |
| STAT 1150 | STAT 2150 12 additional credit hours of 2000, 3000, or 4000 level Statistics courses |

NOTES:

1 The following substitutes are allowed: MATH 1300 (B) in place of MATH 1220, MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230, MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232, MATH 1690 (C) in place of MATH 1230 and MATH 1232; STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150.

2 Of the electives chosen as part of the Honours Degree, 18 credit hours are to be selected from one department which represents a field of application such as: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology or Sociology. (Mathematics and Computer Science are excluded from this list.) In consultation with the department, combinations of courses from a coherent area of studies may be selected.

3 Of the electives chosen as part of the Major Degree, 15 credit hours must be selected from either, Computer Science and Mathematics, or from one of the following departments: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology, or Sociology.

4 IMPORTANT: The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

5 The following substitutes are allowed: STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150.

6 STAT 2000 and STAT 2150 cannot be counted towards this requirement. (Letters in brackets indicate minimum prerequisite standing for further study.)

4.13.3 Statistics - Actuarial Mathematics Joint Honours Program

The Department of Statistics and the Warren Centre for Actuarial Studies and Research offer a joint Honours program for students wishing in depth study in Statistics and Actuarial Mathematics.

Entry Requirements:

To enter the Joint Honours program, students must have completed 24 credit hours with a minimum DGPA of 3.00. Students must also obtain a minimum grade of "B" in STAT 2150. All of the courses listed in Year 1 of the program chart are program requirements and students are strongly urged to take them in the first year.

To continue in the Joint Honours Statistics - Actuarial Mathematics program, students must maintain a minimum DGPA of 3.00, and complete a minimum of 9 credit hours during each Fall and Winter Term.

To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and a minimum grade of "C+" on all required Actuarial Mathematics (ACT) courses and a grade of "C" on all remaining courses that contribute to the 120 credit hours of the degree.

Recommended Electives:

FIN 3410, FIN 4240, COMP 1010, STAT 4630

| | | | |
|--------|--------|--------|--------|
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
|--------|--------|--------|--------|

JOINT HONOURS 120 CREDIT HOURS

| | | | |
|---|---|---|---|
| STAT 1150 ¹ , STAT 2150 (B) | STAT 2400, STAT 3400 | STAT 3050, STAT 3470, STAT 3480, STAT 3490 ³ , STAT 3800 | STAT 4100, STAT 4200, STAT 4520, STAT 4530; |
| ECON 1010 ³ , ECON 1020 ³ | ACT 2020, ACT 2120, ACT 2210 | ACT 3340, ACT 3630 (or both ACT 3130 and ACT 3230) | ACT 4060, ACT 4160, ACT 4020 ³ , ACT 4030 ³ |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 | ACC 1100 ² , FIN 2200 ² MATH 2720 | | MSCI 2150 |
| 3 credit hour "W" course | | | |
| 3 credit hours of electives | 6 credit hours of electives | 6 credit hours of electives | 3 credit hours of electives |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 The following substitutions are allowed: MATH 1300 (C) or MATH 1310 (C) in place of MATH 1220 (C), MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230 (C), MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150.

2 Students are strongly urged to complete ACC 1100 in Year 1 when possible. FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that it be completed in Year 2. Note that ACC 1100 is a prerequisite for FIN 2200.

3 STAT 3490, ACT 4020 and ACT 4030 may be taken in Year 3 or 4.

(Letters in brackets indicate minimum prerequisite standing for further study.)

4.13.4 Statistics - Computer Science Joint Honours Program

Statistics - Computer Science Joint Honours Program - [see 4.6.5 Computer Science - Statistics Joint Honours Program](#)

4.13.5 Statistics - Mathematics Joint Honours Program

| | | | |
|--|--|---|---|
| The departments of Statistics and Mathematics offer a joint Honours program for students wishing in depth study in Statistics and Mathematics. | | | |
| <p>To enter the Honours program students must have satisfied the Faculty of Science requirements for entry to the program, and have obtained a minimum grade of "B" in STAT 2150, and either MATH 1232 or MATH 1690 (or a minimum grade of "A" in MATH 1700).</p> <p>To continue in the Honours program, students must maintain a minimum DGPA of 3.00.</p> <p>To graduate with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and a minimum grade of "C" on all remaining courses that contribute to the 120 credit hours of the degree.</p> | | | |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| JOINT HONOURS 120 CREDIT HOURS (comprising courses listed in chart below, and electives) | | | |
| MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ (B), MATH 1240 | STAT 2400 MATH 2020, MATH 2080, MATH 2090, MATH 2150, MATH 2160, MATH 2180 | STAT 3050, STAT 3470, STAT 3480, STAT 3400, STAT 3800 | STAT 4100, STAT 4520, STAT 4530 |
| The following courses must be taken in Year 1 or Year 2: STAT 1150 ¹ , STAT 2150 (B) COMP 1010 6 credit hours from the Faculty of Arts, which should include the required "W" course 12 credit hours of approved electives | | MATH 2030, MATH 3320, MATH 3322, MATH 3340, MATH 3470, MATH 3472, MATH 3440, MATH 3460 3 credit hours from MATH 2070, MATH 2170 and any 3000/4000 level Mathematics courses 3 credit hours from any 4000 level Mathematics courses 6 credit hours of approved electives | |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 Students are strongly advised to take MATH 1220, MATH 1230, MATH 1232. The following substitutions are allowed (but not advised), provided the grades indicated in brackets are achieved: MATH 1300 (A) in place of MATH 1220, MATH 1500 (A) or MATH 1510 (A) in place of MATH 1230, MATH 1700 (A) in place of MATH 1232, MATH 1690 (B) in place of MATH

1230 and MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150.

(Letters in brackets indicate minimum prerequisite standing for further study.)

4.13.6 Statistics - Economics Joint Honours Program

| | | | |
|---|---|---|---|
| The Department of Statistics along with the Department of Economics (Faculty of Arts) offer a Joint Honours program for students wishing in depth study in Statistics and Economics. For Economics course listings, refer to the Faculty of Arts chapter in the Calendar. | | | |
| Students will normally take STAT 2150 in second year and enter Honours in Year 3. To enter the Joint Honours Statistics-Economics program in the Faculty of Science, the student must have a minimum grade of "B" in both of ECON 1010 and ECON 1020 (or ECON 1210 and ECON 1220) and STAT 2150; and have satisfied the Faculty of Science requirements for entry to the honours program. Students are strongly encouraged to take MATH 1220, MATH 1230, MATH 1232 and MATH 1240 in Year 1. | | | |
| To continue in the Joint Honours Statistics-Economics program in the Faculty of Science, a minimum DGPA of 3.00 is required. | | | |
| To graduate with the B.Sc. Joint Honours Statistics-Economics degree from the Faculty of Science, a student must achieve a minimum DGPA of 3.00, and a minimum grade of "C" in each course that contributes to the 120 credit hours of the degree. | | | |
| YEAR 1 | YEAR 2 | YEAR 3 | YEAR 4 |
| JOINT HONOURS 120 CREDIT HOURS | | | |
| Both ECON 1010 and ECON 1020 or both ECON 1210 and ECON 1220 STAT 1150 ¹ MATH 1220 ¹ , MATH 1230 ¹ , MATH 1232 ¹ , MATH 1240 COMP 1010 | ECON 2010, ECON 2020 STAT 2150, STAT 2400 MATH 2030, MATH 2080, MATH 2140, MATH 2150 or MATH 2720 | ECON 3010, ECON 3020 STAT 3400, STAT 3470, STAT 3480, STAT 3490, STAT 3800 MATH 2160, MATH 3360 | ECON 4040, ECON 4042 STAT 4100, STAT 4200, STAT 4520, STAT 4530, |
| 6 credit hours of electives including the required "W" course. | 6 credit hours of approved Economics electives ² | 3 credit hours of approved Economics electives ² | 12 credit hours of approved Economics electives ² |
| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

NOTES:

1 The following substitutes are allowed: MATH 1300 in place of MATH 1220, MATH 1500 in place of MATH 1230, MATH 1700 in place of MATH 1232. STAT 1000 (C) and STAT 2000 (B) in place of STAT 1150. Students must attain specific grade requirements in order to meet the upper level course prerequisites. Consult course descriptions for further information.

2 Of the 21 credit hours of electives in Economics in Years 2, 3 and 4, no more than 6 credit hours may be at the 2000 level or below; ECON 2030 and ECON 3040 are recommended in Year 2 or 3. The normal prerequisite for ECON 3040 is ECON 2040, which will be waived for students in this program who have completed Year 1.

(Letters in brackets indicate minimum prerequisite standing for further study.)

4.13.7 Statistics Course Descriptions-1000 Level**STAT 1000 Basic Statistical Analysis 1 Cr. Hrs. 3**

(Lab required) This course is not recommended for students in certain programs (see the description of STAT 1150). An introduction to the basic principles of statistics and procedures used for data analysis. Topics to be covered include: gathering data, displaying and summarizing data, examining relationships between variables, sampling distributions, estimation and significance tests, inference for means. May not be held with STAT 1001, STAT 1150, STAT 2220. Prerequisite: Any grade 12 or 40S Mathematics, or equivalent.

STAT 1150 Introduction to Statistics and Computing Cr. Hrs. 3

(Lab required) This course is recommended for students in mathematically rich disciplines, including Statistics, Mathematics, Actuarial Science, Computer Science, and related interdisciplinary programs. Topics to be covered include: summarizing and displaying large datasets, sampling, estimation and significance tests, probability calculations, random variables and probability distributions, introduction to regression and correlation analysis, statistical software. Not to be held with STAT 1000, STAT 1001, STAT 2000, STAT 2001 and STAT 2220. Prerequisite: Minimum of 70% in Pre-calculus Mathematics 40S or a grade of B or better in Mathematical Skills (MSKL 100) offered by Extended Education or equivalent.

4.13.7 Statistics Course Descriptions-2000 Level**STAT 2000 Basic Statistical Analysis 2 Cr. Hrs. 3**

(Lab required) This course is not recommended for students in certain programs (see the description of STAT 2150). The study of estimation and hypothesis testing procedures for means and proportions in one, two and multiple sample situations, introduction to the analysis of variance; regression and correlation analysis; optional topics may include nonparametric procedures, design of experiments, probability models. May not be held with STAT 1150, STAT 2001. Prerequisite: STAT 1000 (C), or STAT 1001 (C).

STAT 2150 Statistics and Computing Cr. Hrs. 3

(Lab required) This course is recommended for students in mathematically rich disciplines, including Statistics, Mathematics, Actuarial Science, Computer Science, and related interdisciplinary programs. Topics to be covered include: exploratory data analysis and visualization, graphical methods, random number generation, random variables, simple statistical models and computing, Monte Carlo methods, large sample and simulation-based inference, statistical software packages. Prerequisites: [STAT 1150 (C) or STAT 2000 (B) or STAT 2001 (B)] and [a C or better in one of: MATH 1230, MATH 1500, MATH 1501, MATH 1510, the former MATH 1530, or MATH 1690 (C)].

STAT 2220 Contemporary Statistics for Engineers Cr. Hrs. 3

(Lab Required) Descriptive statistics, basic probability concepts, special statistical distributions, statistical inference-estimation and hypothesis testing, regression, reliability, statistical process control. May not be held with STAT 1000, STAT 1001 or STAT 1150. Prerequisite: a "C" or better in one of MATH 1232, MATH 1690, the former MATH 1680, MATH 1700, MATH 1701, MATH 1710.

STAT 2400 Introduction to Probability I Cr. Hrs. 3

(Lab Required) Basic probability, discrete distributions including binomial, hypergeometric, geometric and Poisson, joint distributions, applications involving discrete random variables. This course is not available to any student who has previously obtained credit for STAT 3500. Prerequisites: STAT 1150 (C), STAT 2000 (B), or STAT 2001 (B); and MATH 1232 (C), MATH 1690 (C), MATH 1700 (B), MATH 1701 (B), or MATH 1710 (B), or the former MATH 1730 (B).

4.13.7 Statistics Course Descriptions-3000 Level**STAT 3000 Applied Linear Statistical Models Cr. Hrs. 3**

Applied Linear regression and analysis of variance for designed experiments. This course is not for use in the Honours or Major degree programs in Statistics. Not to be held with STAT 3470, STAT 3480, the former STAT 3120 or the former STAT 3130. Prerequisite: a "C" or better in one of STAT 1150, STAT 2000 or STAT 2001.

STAT 3050 Introduction to Probability Theory and Its Applications Cr. Hrs. 3

Development of the basic concepts of probability theory and application in areas of biostatistics, actuarial science, reliability theory, queuing theory. Prerequisites: STAT 3400 or the former STAT 3500 (C); and MATH 2150 or MATH 2720 or MATH 2721 (or the former MATH 2750)(C).

STAT 3170 Statistical Quality Control Cr. Hrs. 3

Techniques for quality improvement through the use of statistical process control. Topics will include acceptance sampling, Pareto diagrams, boxplots, normal probability plots, control charts (EWMA and CUSUM), measurements of process capability and process performance. Prerequisite: a "C" or better in STAT 1150 or STAT 2000 or STAT 2001.

STAT 3380 An Introduction to Nonparametric Statistics Cr. Hrs. 3

Parametric versus nonparametric inference; inference using ranks and order statistics; tolerance intervals; contingency tables; goodness-of-fit tests; examples from the social and physical sciences. Prerequisite: a "C" or better in one of STAT 1150, STAT 2000 or STAT 2001.

STAT 3400 Introduction to Probability II Cr. Hrs. 3

(Lab Required) Continuation of STAT 2400. Continuous distributions, properties of common distributions, distributions of functions of random variables. May not be held with the former STAT 3500. Prerequisite: STAT 2400(C). Prerequisite or Corequisite: one of MATH 2150, MATH 2720, MATH 2721 (or the former MATH 2750)(C), or the former MATH 2730, or MATH 2731.

STAT 3470 Statistical Methods for Research Workers 1 Cr. Hrs. 3

Linear regression, multiple regression, correlation analysis, introduction to one way analysis of variance, some related topics. May not be held with STAT 3000 or the former STAT 3120. Prerequisite: STAT 2150 (C). Pre- or corequisite: STAT 3400 or the former STAT 3500.

STAT 3480 Statistical Methods for Research Workers 2 Cr. Hrs. 3

Analysis of variance, randomized block design, nested and Latin square experiments, analysis of covariance. May not be held with STAT 3000 or the former STAT 3130. Prerequisite: STAT 3470 (C).

STAT 3490 Time Series Analysis **Cr. Hrs. 3**

Trend and seasonal components, exponential smoothing by the multiple regression method, the Box-Jenkins Methodology, analysis of seasonal data. Prerequisite: a grade of "C" or better in one of: STAT 3470, STAT 3000 or the former STAT 3120.

STAT 3800 Mathematical Statistics **Cr. Hrs. 3**

(Lab Required) Multivariate distributions and transformations, order statistics, sampling distributions, convergence, introduction to statistical inference. May not be held with the former STAT 3600. Prerequisite: STAT 3400 or the former STAT 3500 (C).

STAT 3980 Work Term I **Cr. Hrs. 0**

Work assignment in business, industry, or government for students registered in the Statistics Honours or Major Cooperative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only). Prerequisites: STAT 3470 (C) and STAT 3480 (C).

STAT 3990 Work Term II **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Statistics Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisite: STAT 3980 (Pass).

4.13.7 Statistics Course Descriptions-4000 Level**STAT 4100 Statistical Inference 1** **Cr. Hrs. 3**

Introduction to methods of estimation, including asymptotic and Bayesian methods. May not to be held with the former STAT 4140. Prerequisite: STAT 3800 or the former STAT 3600.

STAT 4170 Lifetime Data Analysis **Cr. Hrs. 3**

An introduction to basic principles and techniques for lifetime data analysis in biostatistics and reliability, with emphasis on theory and applications. Topics to be covered include: censoring, truncation, survival and hazard functions, parametric and nonparametric methods, proportional hazards regression. Prerequisites: STAT 3480 (C); and either STAT 3800 or the former STAT 3600 (C); or consent of department.

STAT 4200 Statistical Inference 2 **Cr. Hrs. 3**

Introduction to methods of hypothesis testing, including asymptotic and Bayesian methods. May not be held with the former STAT 4140. Prerequisite: STAT 4100.

STAT 4520 Sampling Techniques 1 **Cr. Hrs. 3**

A development of sampling theory for use in sample survey problems, in regression estimates, in systematic sampling, sources of errors in surveys. Prerequisites: STAT 3800 or the former STAT 3600 (C); and STAT 3480; or consent of department.

STAT 4530 Design of Experiments 1 **Cr. Hrs. 3**

Objectives in designing experiments; designs commonly used in research including analysis and an introduction to the construction of designs. Prerequisites: STAT 3800 or the former STAT 3600 (C); and STAT 3480 (C); or consent of department.

STAT 4580 Sampling Techniques 2 **Cr. Hrs. 3**

A mathematical treatment of some advanced topics in sampling theory. Multistage sampling plans and other selected topics. Prerequisite: STAT 4520 (C) or consent of department.

STAT 4700 Statistical Consulting **Cr. Hrs. 3**

The role of a Statistics Consultant. Practical consulting experience. This course is normally open to fourth year and graduate students in Statistics. Prerequisites: STAT 3800 or the former STAT 3600 (C); and STAT 3480; or consent of department. Prerequisites or concurrent requirements: STAT 4520 and STAT 4530.

STAT 4980 Work Term III **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Statistics Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisite: STAT 3990 (Pass).

STAT 4990 Work Term IV **Cr. Hrs. 0**

Work assignments in business, industry or government for students registered in the Statistics Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisite: STAT 4980 (Pass).

STAT 4590 Design of Experiments 2 **Cr. Hrs. 3**

The theory and analysis of experimental designs treated in STAT 4530 and more advanced designs; construction of designs. Prerequisite: STAT 4530 (C) or consent of department.

STAT 4600 Statistics Topics 1 **Cr. Hrs. 3**

Topics of current interest in Statistics that will vary with the needs and interests of students and Faculty. Prerequisite: STAT 3800 or the former STAT 3600 (C); or consent of department.

STAT 4630 Stochastic Processes **Cr. Hrs. 3**

An introduction to stochastic processes. Prerequisite: STAT 3050 (C); and STAT 3800 or the former STAT 3600 (C); or consent of department.

STAT 4690 Applied Multivariate Analysis **Cr. Hrs. 3**

The course will emphasize applications of various techniques in multivariate analysis and gaining familiarity with the relevant programs in statistical packages, i.e., SAS, BMDP. Prerequisites: STAT 3480 (C); and a "C" or better in one of MATH 1220 (or the former MATH 2300 or MATH 2301) and MATH 2150 (or the former MATH 2720 or MATH 2721 or MATH 2750) or consent of instructor.

4.14 Courses Offered in Other Faculties and Schools

All courses acceptable for credit in any degree program at the University of Manitoba are acceptable for credit in Science (excluding Pass/Fail courses) subject to overall degree requirements. All courses will be included on admission to the Faculty and will be applied toward the elective requirement in all degree programs offered in Science. For course descriptions, including any prerequisites and/or restrictions, see the chapter entitled Course Descriptions in this Calendar.

Students are reminded that normally a maximum of 30 credit hours (General Degree) or 36 credit hours (Major Degree) from courses offered by Faculties or Schools other than the Faculty of Science can contribute to degree requirements.

| 4.15 Resources for Students Interested in Science Related Professional Schools or Faculties | | | |
|--|-------------------|--|---------------------|
| Program | University | Website | Phone Number |
| U of Manitoba Admissions Office | | umanitoba.ca/student/admissions/ | 204.474.8808 |
| Agriculture and Food Science | Manitoba | umanitoba.ca/faculties/afs/ | 204.474.7525 |
| Dental Hygiene | Manitoba | umanitoba.ca/faculties/dentalhygiene/ | 204.789.3683 |
| Dentistry | Manitoba | umanitoba.ca/faculties/dentistry/ | 204.789.3631 |
| Education | Manitoba | umanitoba.ca/faculties/education/ | 204.474.9004 |
| Engineering | Manitoba | umanitoba.ca/faculties/engineering/ | 204.474.9807 |
| Environment | Manitoba | umanitoba.ca/faculties/environment/ | 204.474.7252 |
| Human Ecology | Manitoba | umanitoba.ca/faculties/human_ecology/ | 204.474.8508 |
| Kinesiology | Manitoba | umanitoba.ca/faculties/kinrec/ | 204.474.9747 |
| Management | Manitoba | umanitoba.ca/management/ | 204.474.9353 |
| Medical Rehabilitation | Manitoba | umanitoba.ca/medrehab/ | 204.789.3897 |
| Medicine | Manitoba | umanitoba.ca/medicine/ | 204.789.3557 |
| Nursing | Manitoba | umanitoba.ca/nursing/ | 204.474.7452 |
| Pharmacy | Manitoba | umanitoba.ca/pharmacy/ | 204.474.9306 |
| Graduate Studies | Manitoba | umanitoba.ca/faculties/graduate_studies/ | 204.474.9377 |
| Related Programs not offered at the U of Manitoba | | | |
| Optometry | Waterloo | http://optometry.uwaterloo.ca/ | 519.888.4567 |
| Veterinary Medicine | Saskatchewan | http://www.usask.ca/wcvm/ | 306.966.7447 |
| Meteorology | | http://www.msc-smc.ec.gc.ca/ | |

Faculty of Social Work

Dean: Dr. Michael Yellow Bird
 Associate Dean(s): Dr. Maria Cheung; Undergraduate Programs; Judith Hughes; Graduate Studies & Research
 Campus Address/General Office: 521 Tier Building, Fort Garry Campus
 Email Address: social_work@umanitoba.ca
 Telephone: (204) 474-7050
 Fax: (204) 474-7594
 Website: umanitoba.ca/faculties/social_work
 Academic Staff: Please refer to the Faculty's website
umanitoba.ca/faculties/social_work

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SECTION 1: Degree Offered

The Bachelor of Social Work Program

Historically, the social work profession has focused on the well-being of people as well as the social structures and conditions that prevent a just and equal society. The Bachelor of Social Work Program is a professional program that is designed to prepare generalists who are knowledgeable of social work theories, and who can demonstrate skills related to practice, research, and social policy analysis. Students and graduates undertake these activities in accordance with the Canadian Association of Social Workers's Code of Ethics. The program is accredited by the Canadian Association for Social Work Education.

Graduates have competence for entry-level social work positions in a variety of different practice areas. The program is based on the principles of social justice, human rights, and anti-oppression, with an emphasis on critical thinking and understanding the structural roots of social problems. Foundation courses are grounded in critical theoretical frameworks including Indigenous worldviews, feminism, and anti-racism.

The program is offered at multiple geographic sites including the Fort Garry Campus, the William Norrie Centre (Inner-city), the Université de Saint-Boniface, and Thompson, Manitoba (Northern Social Work Program) as well as by Distance Delivery.

1.1 Program

| Degree | *Years to Complete | *Total Credit Hours |
|--|--------------------|---------------------|
| Bachelor of Social Work (Full-Time) | 4 | 123 |
| Bachelor of Social Work (Concentrated)** | 2 | 123 |
| Bachelor of Social Work (Part-Time) | Up to 9 | 123 |

*This includes one year (30 credit hours) of prior university study.

**Please see 4.1 B

1.2 Interfaculty Option in Aging

The Interfaculty Option in Aging is offered by the following faculties: Arts, Nursing, Kinesiology and Recreation Management, and Social Work. To complete the option, students will complete each of the following requirements: a) 2610* Health and Physical Aspects of Aging; b) 2650* The Social Aspects of Aging; c) one field placement SWRK 3150 or SWRK 4120 in aging d) one Field Focus of Social Work Practice course (SWRK 4200 or SWRK 4300) in aging. Students are encouraged to take courses from the participating units other than Social Work.

NOTE: *These courses are offered on a rotational basis by participating units.

Upon the successful completion of these requirements, a notation will be added to the student's transcript. For further information on the Interfaculty Option in Aging, please refer to the Faculty's website [umanitoba.ca/faculties/social work](http://umanitoba.ca/faculties/social%20work)

SECTION 2: Admission Requirements

The following is a summary of the admission requirements to the Bachelor of Social Work program. Equivalent academic courses completed at recognized universities elsewhere will be considered. All admission requirements, as well as application deadline dates and forms, are included in an applicant information bulletin that is available from the Admissions Office, Enrolment Services, 424 University Centre; this information is also posted on the university's website.

2.1 Admission to the Fort Garry Social Work Program

Admission Requirements

Completion of 30 credit hours of university level courses which are acceptable to the University of Manitoba.

The written English and mathematics requirements are recommended to be completed as part of University 1. If these requirements are not met in University 1 (i.e. the first 30 credit hours), as per the university policy, they must be completed within the first 60 credit hours of the programs. General Academic Regulations for a complete list of all courses which satisfy the university written English and mathematics requirement. Minimum GPA for consideration for all applicants (including Educational Equity applicants): 2.5

A Criminal Record Statement and a Child Abuse Registry (CAR) check (for a record of those registered as an offender) must be completed following selection.

Selection criteria: Two applicant pools are created; 60% of all spaces are allocated to applicants with the highest grades, and 40% of all spaces are allocated to applicants based on the Education Equity initiative.

Concentrated Program

All applicants wishing to complete the program in two years of full-time study must have completed a minimum of 51 credit hours of university study (which are acceptable to the University of Manitoba) prior to admission to the BSW program. Applicants wishing to complete the degree through the two year concentrated program must have an Adjusted Grade Point Average of 3.00 from previous university study. In the event that three credit hours in each of written English and mathematics have not been completed as part of the 51 credit hours of previous university study, they must be completed within the first year of the two-year BSW program.

The deadline for submission of applications in March 1st (for September start date).

The Selection Process

The selection process is designed to accomplish three objectives: to treat applicants fairly and equitably, to provide the diversity of practitioners required by the profession, and to provide for an efficient admissions process. The faculty selects applicants to the Fort Garry Campus B.S.W. program through two categories as described below.

Academic Achievement Category: 60% of all available positions are awarded on the basis of highest Adjusted Grade Point Average.

Educational Equity Initiative: 40% of all available positions are allocated to those eligible for inclusion in one or more of the Educational Equity Priority Groups and awarded on the basis of highest Adjusted Grade Point Average. The purpose of the Educational Equity initiative is to achieve equality in professional education so that no person shall be denied educational opportunities or benefits for reasons unrelated to ability. In the fulfillment of this goal, the aim is to correct the conditions of disadvantage in professional education experienced by Canadian Aboriginal peoples, persons with disabilities, LGBTQ, immigrants and refugees to Canada, and

persons who are, because of their race or colour, a visible minority in Canada. Giving effect to the principle of educational equity means more than treating persons in the same way; it also requires special measures and the accommodation of difference. Details of the Educational Equity initiative are provided in the application information bulletin.

Students in the Fort Garry Social Work Program must successfully meet the graduation criteria set for all BSW students in the Faculty of Social Work.

2.2 Admission to the Inner City Social Work Program

The Inner City Social Work (B.S.W.) ACCESS Program at the William Norrie Centre is an inner-city extension of the Faculty of Social Work. Students admitted to the Inner City Social Work Program are accepted directly into a four-year B.S.W. program, and do not require prior university study.

-The objective of this program is to enhance the accessibility of the B.S.W. program by preparing as social workers those mature students who have had inner-city or similar social service experience, but who lack the normal university entrance requirements. Special academic and social support is provided to students admitted to the program. Staff assists candidates in arranging funding resources.

-All students complete a total of 123 credit hours of university study. Full time or part-time study is offered.

- Admission to the Inner City Social Work Program is limited. Applicants to the full-time program must be 21 years old, low income, and residents of Winnipeg at the time of application. The deadline date for submitting applications is March 1. Orientation begins mid-August and is mandatory

- A part-time B.S.W. Access program is offered to individuals who meet the above criteria, work for a Winnipeg or Aboriginal agency, and/or have two years employment in human service fields. Deadline for applications for part-time studies is February 1. Classes begin the first week in May.

As per the university's policy, all students are required to complete, within the first 60 credit hours of their programs, a minimum of one three credit hour course with significant content in written English, and a minimum of one three credit hour course with significant content in mathematics. Please refer to the Calendar's General Academic Regulations for a complete list of all courses which satisfy the university written English and mathematics requirement.

Students at the Inner City Social Work Program must successfully meet the graduation criteria set for all BSW students in the Faculty of Social Work. For further information, contact: Inner City Social Work Program, 485 Selkirk Avenue, Winnipeg, Manitoba, R2W 2M6; telephone: (204) 668-8160.

2.3 Admission to the Northern Social Work Program

The Northern Social Work (B.S.W.) ACCESS program, based in Thompson Manitoba, is an extension of the Fort Garry Faculty of Social Work. Students are admitted directly into a four-year B.S.W. program and do not require prior university study.

All students complete a total of 123 credit hours of university study. Full time or part-time study is offered.

The objective of this program is to enhance the accessibility of the B.S.W. program by preparing as social workers mature students who, without the support of the program, would be unable to successfully complete a university degree due to lack of financial resources, lack of academic qualifications and remote location. Special academic and personal support is provided to students admitted to the program, as well as some assistance in arranging funding resources.

Students who have completed 30 credit hours of university level courses and have a minimum GPA of 2.5 may apply as External Students.

Admission to the Northern Social Work program is limited. Applicants must meet specified northern residency requirements. The deadline date for submitting applications is March 1 (classes begin in September).

As per the university's policy, all students are required to complete, within the first 60 credit hours of their programs, a minimum of one three credit hour course with significant content in written English, and a minimum of one three credit hour course with significant content in mathematics. Please refer to the Calendar's General Academic Regulations for a complete list of all courses which satisfy the university written English and mathematics requirement. Students in the Northern Social Work program must successfully meet the graduation criteria set for all BSW students in the Faculty of Social Work. For further information, contact the Faculty of Social Work at Thompson, 3 Station Road, Thompson, Manitoba, R8N 0N3; telephone: (204) 677-1450

2.4 Admission to the Distance Delivery Social Work Program

The Faculty of Social Work is committed to the accessibility of social work education. The faculty has extended the concept of accessibility to include geographical accessibility through the delivery of the B.S.W. based on two approaches: (1) to individuals by means of an online study program and (2) to community-based groups using the cohort method.

The Distance Delivery B.S.W. program is intended to encourage individuals who are employed in the social services and living outside of Winnipeg, but who may not have had the opportunity to pursue professional social work education.

All students complete a total of 123 credit hours of university study. Full time or part-time study is offered.

Delivery methods for the online study component of the program include a combination of web conferences and online courses. Access to computer, high speed internet and headset with microphone is required.

All course examinations are scheduled and arranged by the university's Registrar's Office to take place in the student's community.

Delivery of the program to the community-based cohorts utilizes the face-to-face delivery with the option of a combination of face-to-face, web conferences, and online study.

Applicants to the Distance Delivery B.S.W. program must meet all three of the following requirements to be admitted into the program:

- Minimum of 30 credit hours of university level courses which are acceptable to the University of Manitoba, with a minimum GPA of 2.5 for consideration of all applicants, including Educational Equity applicants; and
- 1 year (1750 hours) of work experience, within the last 5 years, in the social services; and
- Residency outside of the city of Winnipeg.

Complete and detailed admissions information is available on our web site at [umanitoba.ca/faculties/social work](http://umanitoba.ca/faculties/social%20work) or by calling the Faculty of Social Work Distance Delivery BSW General Office at 204-474-7912.

The deadline for submission of applications is March 1st (for September start date).

As per the university's policy, all students are required to complete, within the first 60 credit hours of their programs, a minimum of one three credit hour course with significant content in written English, and a minimum of one three credit hour course with significant content in mathematics. Please refer to the Calendar's General Academic Regulations for a complete list of all courses which satisfy the university written English and mathematics requirement.

Students in the Distance Delivery B.S.W. program must successfully meet the graduation criteria set for all BSW students in the Faculty of Social Work.

2.5 The Université de Saint-Boniface

The Université de Saint-Boniface, in conjunction with the University of Manitoba, now offers a French language Bachelor of Social Work program. Please contact Program Coordinator at 204 237-1818 ext. 447 for more information.

2.6 Special Student Admission

A Special Student in Social Work is one who wishes to take undergraduate Social Work courses with no intentions of proceeding to a B.S.W. degree at the present time. In addition, the student is not currently registered at any other university. Students seeking admission as Special Students may request information from the Faculty of Social Work, 521 Tier Building; telephone (204) 474 7050. Criteria for admission are:

- Successful completion of a minimum of 30 credit hours of university level courses which are acceptable to the University of Manitoba; **and**
- Adjusted Grade Point Average of 2.5 (C+).

Students are reminded they must apply online and submit an official transcript (one bearing the university seal) along with the application form available on the University of Manitoba website. An application fee applies. Once admitted as a Special Student, students will:

- Be limited to completion of nine credit hours of required social work courses plus SWRK 1310 and SWRK 2080.
- Be prohibited from registering for courses until August (refer to Aurora Student for specific dates).
- Have all courses classified as "SS," which means that grades for these courses may not generate a Grade Point Average.

Students Enrolled in other Faculties/Schools

Students currently enrolled in other faculties or schools at the University of Manitoba may register for Social Work courses provided they have completed a minimum of 30 credit hours of university study and achieved a minimum Cumulative Grade Point Average of 2.5. These students will also be limited to completion of SWRK 1310 and SWRK 2080 plus nine credit hours of required social work courses.

Courses available to Special Students and students enrolled in other faculties and schools at the University of Manitoba:

| Required Social Work Courses: | |
|--------------------------------------|--|
| SWRK 1310 | Introduction to Social Welfare Policy Analysis |
| SWRK 2080 | Interpersonal Communication Skills |
| SWRK 2090 | Human Behaviour and Social Work Practice |
| SWRK 2110 | Emergence of the Canadian Welfare State |
| SWRK 2130 | Comparative Social Welfare Systems |
| SWRK 3130 | Contemporary Canadian Social Welfare |
| SWRK 3100 | Systematic Inquiry in Social Work |
| Elective Social Work Courses: | |
| SWRK 2050 | Community & Organizational Theory |
| SWRK 2070 | Small Group Dynamics |
| SWRK 4050 | Selected Topics in Social Work |
| SWRK 4080 | Current Issues in Social Welfare |

NOTE: Special and non-Social Work students are required to abide by the same pre-/co-requisite policy that applies to B.S.W. students.

SECTION 3: Faculty Academic Regulations

The provisions of the chapter, General Academic Regulations and Requirements, and the chapter, University Policies, apply to all students. In addition, the Faculty of Social Work has regulations and requirements, published below, that apply specifically to its students.

All students are asked to note that some academic policies and regulations are under review and are subject to change.

3.1 Prerequisite and Co-requisite Policy

The faculty has established a set of pre-/co-requisite requirements to assist students in planning their program of study. All students must abide by the pre- and corequisite requirements for all courses. Any exceptions to the pre- and corequisite policy MUST be approved by the Committee on Academic Standings prior to course registration.

If a student successfully completes a course for which a pre/co-requisite requirement has not been satisfied, this course will not be considered applicable to their BSW program.

3.2 Residence Requirements for a Degree Program

The general university residence requirement applies to the Faculty of Social Work.

3.3 Scholastic Progress

Except in circumstances covered in the official regulations referred to below, clear standing in the faculty requires both the Degree Grade Point Average and Subject Grade Point Average of 2.5 (C+) at the end of each term. A minimum grade of 2.0 (C) is required for all Social Work courses. The passing grades for electives taken in other faculties or schools are those required by the faculties or schools concerned. Complete statements of the regulations governing scholastic progress in the Faculty of Social Work are published in the B.S.W. Student Handbook. Students wishing to do so may consult the policy governing scholastic progress as written in the B.S.W. Student Handbook with the Chair of the Committee on Academic Standings, or the Dean. In the event of any question or dispute, this set of regulations shall be considered the official version. Directors of off-campus programs and the Student Services and Admissions/ Advising Office at Fort Garry Campus will advise students on issues concerning scholastic progress.

3.4 Professional Unsuitability Bylaw

The Senate has approved a bylaw granting authority to the faculty to require a student to withdraw for reasons of professional unsuitability (see the chapter, General Academic Regulations and Requirements). The bylaw is published in the B.S.W. Student Handbook. Students are reminded of their obligation to be familiar with all regulations governing their continued progress in the program.

3.5 Dean's Honour List

BSW student eligibility for the Dean's Honour List is considered on a term by term basis. To qualify for the Dean's Honour List a student must:

- Have completed a minimum of 9 credit hours in the term under consideration, of which a minimum 6 credit hours must be with a standard grade.

and

- Have achieved a minimum Term GPA of 3.6
Pass/Fail courses are included in the credit hour count.

3.6 Appeal of Grades

The general university policy for appeal of assigned grades applies to the Faculty of Social Work. As well, the Faculty Council has approved a Social Work policy on the appeal of assigned grades and term work. The policy is outlined in the B.S.W. Student Handbook. The Faculty Council has established the Academic Standing Appeals Committee to deal with these matters.

3.7 Distance Courses Open to Fort Garry Campus and Inner City Social Work Students

B.S.W students who are enrolled in the Fort Garry Campus or Inner City Social Work programs may take up to six credit hours of selected social work courses through Distance Delivery. The following courses are excluded: SWRK 2080, SWRK 3100, SWRK 3140, SWRK 4200 and SWRK 4300. If any Fort Garry Campus or Inner City Social Work program students are enrolled in the above mentioned practice courses they will be withdrawn.

3.8 Opting Into Field and Practices of the Two-Year Plan

Students may apply for 'opt-in' by fulfilling the following conditions:

- Consult with and submit written request for 'Opt-in' to the Coordinator of Student Services and Admission/Advising Office and Field Coordinator no later than February 1.
 - Successfully complete all Social Work courses required by the end of Winter term prior to opt-in year (except for SWRK 4210 Feminist Perspectives on Social Work Practice, SWRK 4220 Aboriginal People and Social Work Practice, SWRK 4200 Field Focus of Social Work Practice 1, SWRK 4300 Field Focus of Social Work Practice 2, SWRK 3150 Field Instruction 1 and SWRK 4120 Field Instruction 2) and
 - Successfully complete all elective courses (including written English and mathematics requirements) by the end of Winter term prior to opt-in year.
 - Achieve a minimum Degree Grade Point Average of 3.00 at point of opting in.
 - Achieve a minimum Subject Grade Point Average of 3.00 at point of opting in.
- Final approval to opt-in is also based on faculty resources: space availability in SWRK 4210 Feminist Perspectives on Social Work Practice and SWRK 4220 Aboriginal People and Social Work Practice during Summer Session; space availability in SWRK 4200 Field Focus of Social Work Practice 1 and SWRK 4300 Field Focus of Social Work Practice 2 courses in Fall and Winter terms; and the availability of concentrated field placements.

3.9 Courses Open to Challenge for Credit

The Faculty of Social Work accommodates those students who are qualified and who can demonstrate acceptable knowledge and skill, by allowing them to challenge certain Social Work courses. They are:

| | |
|-----------|--------------------------------------|
| SWRK 2080 | Interpersonal Communication Skills |
| SWRK 3100 | Systematic Inquiry in Social Work |
| SWRK 3130 | Contemporary Canadian Social Welfare |

Information on the procedures for challenge is available in the B.S.W. Student Handbook. The dates at which courses may be challenged are given in the academic schedule of the Undergraduate Calendar.

3.10 Credit for Social Work Courses Taken at Other Universities

The Faculty of Social Work supports the principle of granting credit for social work courses taken within the last nine years in accredited programs leading to professional social work qualification. Information on granting credits for social work courses is available in the B.S.W. Student Handbook. The Faculty of Social Work has transfer credit agreements with specific diploma and certificate programs. Please consult the B.S.W. Student Handbook for detailed information.

SECTION 4: Program and Graduation Requirements

When planning your workload, allow approximately two hours of study/reading time for each hour of class time. It is also advisable to schedule time to use the library. The faculty will offer as many evening courses as possible each year; however, some courses may only be available during daytime.

4.1 Curriculum Outline

A) Three-Year Plan

This plan allows a Fort Garry Campus student who has completed 30-50 credit hours of general university study prior to admission, to combine Social Work professional courses with other university courses. It requires three years of full-time study, after admission to the faculty, to complete the requirements for the B.S.W. degree. A student who has already completed the 51 credit hours of general university study which are acceptable to the University of Manitoba may also register for this program ignoring the elective requirements.

Three-Year Plan Example

| Course No. | Course Name | Credit Hours | Year |
|------------|--|--------------|------|
| SWRK 1310 | Introduction to Social Welfare Policy Analysis | 3 | 1 |
| SWRK 2080 | Interpersonal Communication Skills | 3 | 1 |
| SWRK 2090 | Human Behaviour and Social Work Practice | 6 | 1 |
| SWRK 3140 | Introduction to Social Work Practice | 3 | 1 |
| SWRK 3150 | Field Instruction 1 | 12 | 2 |
| SWRK 4200 | Field Focus of Social Work Practice 1 | 6 | 2 |
| SWRK 4120 | Field Instruction 2 | 12 | 3 |
| SWRK 4300 | Field Focus of Social Work Practice 2 | 6 | 3 |
| SWRK 2110 | Emergence of the Canadian Welfare State | 3 | 1 |
| | or | | |
| SWRK 2130 | Comparative Social Welfare Systems | 3 | 1 |
| SWRK 3100 | Systematic Inquiry in Social Work | 3 | 1 |
| SWRK 3130 | Contemporary Canadian Social Welfare | 3 | 2 |

| | | | |
|-----------|---|---|--------|
| SWRK 4210 | Feminist Perspectives on Social Work Practice | 6 | 2 or 3 |
| SWRK 4220 | Aboriginal People and Social Work Practice | 6 | 2 or 3 |

NOTES:

- SWRK 1310 and SWRK 2080 are open to University 1 students,
- All students must take the foundation courses very early in the program. Failure to do so may restrict progression through the program.
- See course descriptions (Section 5) for a complete list of pre-/co-requisites.
- Students must take SWRK 1310 before proceeding to SWRK 2110, SWRK 2130, and SWRK 3130. In addition, SWRK 1310, SWRK 2080 and SWRK 2090 are pre- or co-requisite to SWRK 3140.
- All foundation courses (SWRK 1310, SWRK 2080, SWRK 2090 and SWRK 3140) are pre-requisite to SWRK 4200, SWRK 4300, SWRK 4210, SWRK 4220, SWRK 3150 and SWRK 4120. In addition, SWRK 3150 Field Instruction 1 and SWRK 4200 Field Focus of Social Work Practice 1 are pre-requisites to SWRK 4120 Field Instruction 2.
- See Aurora Class Schedule for a list of SWRK 4200 and SWRK 4300 courses.
- Students must take one section of SWRK 4200 and one section of SWRK 4300. Each section is anchored in a different field or focus of social work practice. It is recommended that students take SWRK 4200 and SWRK 4300 courses that corresponds with their field placement area of practice.
- Students must take SWRK 4200 concurrently with SWRK 3150 and SWRK 4300 concurrently with SWRK 4120. If a student withdraws from SWRK 4200, he/she must also withdraw from SWRK 3150 and if a student withdraws from SWRK 4300, he/she must also withdraw from SWRK 4120. As well, if a student withdraws from SWRK 3150 he/she must withdraw from SWRK 4200 and if a student withdraws from SWRK 4120 he/she must withdraw from SWRK 4300. Students, who fail to withdraw from the co-requisite course, will be withdrawn.
- Student admitted after '97-'98 must complete 3 credit hours of written English and 3 credit hours of mathematics as part of first 30 credit hours (unless completed prior to admission).
- This plan assumes that students do not take courses in the summer.

| | |
|--|--------------------------|
| Year 1 = 21 Credit hours social work courses | 6 Credit hours electives |
| Year 2 = 27 Credit hours social work courses | 6 Credit hours electives |
| Year 3 = 24 Credit hours social work courses | 9 Credit hours electives |

Planning Chart for Elective Courses for Three-Year Program

| Required Electives | Credit Hours | Year |
|---------------------------|--------------|------|
| Admitted on basis of | 30 | 1 |
| Unallocated transfer | | |
| Electives to be completed | | |
| Written English (W) | | 1 |
| Mathematics (M) | | 1 |

B) Two-Year Plan (Concentrated Program)

Fort Garry Campus

Fort Garry Campus students who have completed 51 credit hours of general university study prior to admission to the B.S.W. program, and have attained a minimum Adjusted Grade Point Average (A.G.P.A.) of 3.00, are eligible for the two year plan (Concentrated Program). If a student has completed the 51 credit hours of general university study which are acceptable to the University of Manitoba, but does not have the required

3.00 A.G.P.A., or prefers a more extended time period, that student can register for either the three-year plan or the part-time plan.

Students eligible to register for the concentrated program may choose to do so at point of initial registration following admission only.

If any of the required social work courses were part of 51 credit hours completed prior to admission to the BSW program, they will have to be substituted with elective courses after admission to the BSW program. Any outstanding elective courses, including written English and mathematics requirements, must be completed by the end of Winter term in the first year of the BSW Concentrated Program.

Students must maintain a Degree Grade Point Average (D.G.P.A.) and Subject Grade Point Average (S.G.P.A.) of a minimum 3.00 at the end of each term to remain in the Concentrated Program. In an instance where one or both of these requirements are not met, the student's status will be changed from Concentrated to Regular.

Students planning on completing their program in two years must follow the structure outlined below (which requires completing at least 12 credit hours, including SWRK 4210 and SWRK 4220, during the summer).

Two-Year Plan

| Year 1 (September - August) | | |
|-----------------------------|--|--------------|
| Course No. | Course Name | Credit Hours |
| SWRK 1310 | Introduction to Social Welfare Policy Analysis | 3 |
| SWRK 2080 | Interpersonal Communication Skills | 3 |
| SWRK 2090 | Human Behaviour and Social Work Practice | 6 |
| SWRK 2110 | Emergence of the Canadian Welfare State | 3 |
| or | | |
| SWRK 2130 | Comparative Social Welfare Systems | 3 |
| SWRK 3100 | Systematic Inquiry in Social Work | 3 |
| SWRK 3130 | Contemporary Canadian Social Welfare | 3 |
| SWRK 3140 | Introduction to Social Work Practice | 3 |
| SWRK 4210 | Feminist Perspectives on Social Work Practice | 6 |
| SWRK 4220 | Aboriginal People and Social Work Practice | 6 |
| Year 2 (September - May) | | |
| SWRK 3150 | Field Instruction 1 | 12 |
| SWRK 4200 | Field Focus of Social Work Practice 1 | 6 |
| SWRK 4120 | Field Instruction 2 | 12 |
| SWRK 4300 | Field Focus of Social Work Practice 2 | 6 |

| | |
|---------------------------|-----------|
| Total credit hours | 72 |
|---------------------------|-----------|

Note: See course descriptions (Section 5) for a complete list of pre/co-requisites

C) The Part-Time Plan

Please note that it is possible to pursue the Bachelor of Social Work degree through a program of part-time study. Part-time students must complete all the required social work and elective courses within nine years of their admission to the faculty.

4.2 Field Instruction

Field instruction provides students with an opportunity to engage, as beginning practitioners, in the processes of social work assessment, planning, intervention, evaluation and integration of theory from classroom course work to placement setting. Students complete their field placement requirements in a variety of programs and agencies. Potential field placement sites may include school settings, policy placements, probation services, child and family services, immigrant and refugee services, health care services and other settings.

Students must successfully complete the following pre-requisite course requirements and be in the appropriate year of their degree plan to be eligible to register for Field Instruction:

| | |
|--|--|
| SWRK 1310 Intro to Social Welfare Policy | SWRK 2090 Human Behaviour in Social Work |
| SWRK 2080 Interpersonal Communication Skills | SWRK 3140 Intro to Social Work Practice |

The annual deadline for Field Applications: February 1

Students wishing to divert from their degree plan should consult with their Academic Advisor and/or the Coordinator of Student Services and Admissions/Advising Office before February 1, of the Academic year they wish to pursue Field Instruction.

All B.S.W. students are required to complete two field placement requirements:

| | |
|---|---|
| SWRK 3150: Field Instruction 1 | SWRK 4120: Field Instruction 2 |
| Co-requisite course: SWRK 4200: Field Focus of Social Work Practice | Co-requisite course: SWRK 4300: Field Focus of Social Work Practice |

The co-requisite course must be completed in the same term as the Field Instruction course.

SWRK 3150: Field Instruction 1 and SWRK 4120: Field Instruction 2 is graded on a PASS/FAIL basis. The Field Focus of Social Work Practice course (SWRK 4200/4300) selected should correspond as closely as possible to the Field Placement's area of practice.

University-appointed, agency-based Field Instructors who have knowledge, skills, and expertise in social work practice provide Field Instruction.

Faculty Field Liaisons are also appointed and available to provide support to Students and Field Instructors throughout the academic session.

Students must demonstrate readiness for practice during the process of securing a placement.

The Field Coordinator is the Instructor of Record for SWRK 3150 and SWRK 4120.

All students must meet all agency-specific requirements prior to commencing field placement, such as; updated Immunization, Child Abuse Registry Checks, Vulnerable Sector Record Checks, and Criminal Record

Checks, or others as determined and specified by the respective field agency.

If concerns are raised regarding a student's behaviour, judgment or practice, and/or if the student demonstrates difficulty in their attempts to attain confirmation of field resulting from their performance in the field interview process: the Field Coordinator and Associate Dean of Undergraduate Programs will determine what additional steps may be taken to resolve this matter, or may determine the student is unprepared for meeting the requirements of field placement at this time.

Students are expected to demonstrate initiative and participate actively in all aspects of field placement. If a student is unable to attend field placement due to illness or agency closure, he/she must make up the field hours for that particular day.

Students are permitted one voluntary withdrawal from the course SWRK 3150: Field Instruction 1 and one voluntary withdrawal from the course SWRK 4120: Field Instruction 2. If a student withdraws from SWRK 3150, they must withdraw from the co-requisite SWRK 4200 and if a student withdraws from SWRK 4120, they must withdraw from co-requisite SWRK 4300. A student with more than one voluntary withdrawal from SWRK 3150 or SWRK 4120 shall be required to withdraw from the Faculty.

Prior Learning Assessment and Recognition (PLAR) - SWRK 3152

PLAR is an option available to any BSW student, regardless of program delivery method.

Any BSW student who has two or more years of Social Work employment experience in the past 5 years may choose to apply for eligibility to register for SWRK 3152 PLAR, in lieu of their first field placement requirement. For more information on how to apply or explore

PLAR: http://umanitoba.ca/faculties/social_work/programs/distance/902.html

The annual deadline to apply for PLAR: December 1

Students enrolled in PLAR are required to complete:

| |
|--|
| SWRK 3152: Prior Learning Assessment and Recognition |
| Co-requisite course: SWRK 4200: Field Focus of Social Work Practice |

To connect with the [Field Education Program Team](#) specific to your program please go to: http://umanitoba.ca/faculties/social_work/programs/field_education/595.html

Fort Garry Campus and Inner City Social Work Program:

Prior to applying for field placement, students are expected to participate in the *Everything you wanted to know about Field* workshop and *The Resumé and Interview Preparation* workshop offered at Fort Garry and Inner City programs prior to Field Information Day. Students are required to e-mail a completed Field Application form, along with an updated résumé, on or before Feb. 1 to the Field Program Assistant.

Please refer to the [Field Education Program](#) website for more info http://umanitoba.ca/faculties/social_work/programs/field_education/index.html

[Fall/Winter Field Application Form](#) or http://umanitoba.ca/faculties/social_work/media/Fall-Winter_Field_Application_Form.doc

[Summer Field Application Form](#) or http://umanitoba.ca/faculties/social_work/media/Summer_Field_Application.docx

Most Field Placement agencies will require that the student participate in an interview process and will indicate to the Field Coordinator acceptance for Field Placement.

The Field Coordinator is responsible for securing a reasonable Field Placement. Please note, a student placement in a field setting is **not guaranteed** based on completion of pre-requisite courses and/or submission of a Field Placement Request form.

Upon receipt of the student's completed Field Application Form, new users to the Intern Placement Tracking (IPT) program will receive a temporary password, user name and an IPT Student Manual. In IPT, students are required to identify up to eight agency preferences for placement, due on or before March 1st. Field placements will not be secured for students who do not submit their request, along with all required documentation, by the aforementioned deadline dates.

Please note: Fort Garry Campus and Inner City Social Work Program Students are **not** to contact field placement agencies or prospective Field Instructors directly.

The Field Coordinator or Field Program Assistant refers students eligible for field to an appropriate field placement agency for consideration of an interview. While efforts will be made to consider a student's field focus area of interest, there is no guarantee of a student being placed in one of her/his identified agency preferences. Final authority for field placement referral and confirmation rests with the Field Coordinator. Decisions may be based on availability of agency openings as well as the educational needs of the student. Students who are accepted and offered a field placement will receive confirmation of the placement by e-mail along with key dates and relevant field information documents such as key dates and field orientation prior to term commencement.

All Fort Garry and Inner City students registered in the Fall/Winter term Field Instruction courses (SWRK 3150 and SWRK 4120) are required to attend field orientation on the first Tuesday of September. As attendance at field orientation is mandatory, regular classes are not scheduled on the first Tuesday in September.

Students requiring additional information may contact the Field Program Assistant at 204-474-6171 or the Field Coordinator at 204-474-8767.

Fort Garry Campus Regular 3 year Program

Students registered in SWRK 3150 or SWRK 4120 attend field placement two days per week (15 hours) during Fall/Winter terms. Students require a minimum Degree Grade Point Average (D.G.P.A.) of 2.5 and Subject Grade Point Average (S.G.P.A.) of 2.5 to be eligible for field.

Fort Garry Campus Concentrated Program

Students attend field placement four days per week (30 hours) during Fall/Winter terms for a total of 840 hours, participating in one field placement only. Students contemplating switching to a concentrated field placement are required to have maintained a minimum Degree Grade Point Average (D.G.P.A.) of 3.0 and Subject Grade Point Average (S.G.P.A.) of 3.0. Students should make themselves aware of eligibility requirements of the Concentrated Program and contact the Coordinator of Student Services and Admissions/Advising Office for confirmation of their eligibility no later than February 1.

Inner City Social Work Program

Students registered in SWRK 3150 or SWRK 4120 attend field placement two days per week (15 hours) during Fall/Winter terms. Students require a minimum Degree Grade Point Average (D.G.P.A.) of 2.5 and Subject Grade Point Average (S.G.P.A.) of 2.5 to be eligible for field.

Inner City Social Work Program - Accelerated Field:

Students who have completed 75 credit hours including required pre-requisites and have maintained a minimum Degree Grade Point Average (D.G.P.A.) of 3.0 and Subject Grade Point Average (S.G.P.A.) of 3.0 are eligible to apply for the ICSWP Accelerated Field. Students attend field placement four days per week (30 hours) during Fall/Winter Terms for a total of 840 hours, participating in one field placement only. Inner City Social Work Program (ICSWP) students wishing to do an Accelerated Field must submit a written request to the Director of ICSWP requesting a transfer from regular to Accelerated Field placement. If approved, written documentation from the Director can be attached to the student's Field Request Form, February 1.

Students eligible for the ICSWP Accelerated Field undertake Field Instruction I (SWRK 3150) and Field Instruction 2 (SWRK 4120) at one field placement between September and April. Students approved to take Accelerated Field must also register for two co-requisite Field/Focus of Social Work Practice (SWRK 4200 and SWRK 4300) courses.

Fort Garry Campus and Inner City Social Work Program**Summer Term SWRK 4120 Field Instruction 2 (May-August):**

Summer field placements are an opportunity for BSW students from Fort Garry Campus and ICSWP to complete SWRK 4120: Field Instruction 2 over a shorter period than the regular Fall/Winter academic session. It is an exception to the usual mode of field education at the BSW level. It is offered for the convenience of students and when resources permit. Please note: SWRK 3150: Field Instruction 1 is not offered in summer session.

Students require a minimum Degree Grade Point Average (D.G.P.A.) of 3.0 and Subject Grade Point Average (S.G.P.A.) of 3.0 to be eligible to apply for Summer Field. Students in SWRK 4120: Field Instruction 2 in the summer term must register for the co-requisite course SWRK 4300: Field Focus of Social Work Practice.

Students who have previously received a grade of F in SWRK 3150: Field Instruction 1 are not eligible to take SWRK 4120: Field Instruction 2 in summer session. Students who have previously failed SWRK 4120: Field Instruction 2 and have been given the opportunity to repeat it are not eligible to repeat SWRK 4120: Field Instruction 2 in summer session.

Fort Garry Campus and Inner City Social Work Program

Please refer to the BSW Handbook for more details pertaining to Field Instruction Taken at Place of Employment

Northern Program:

Students work closely with the Field Coordinator in preparing for and securing an appropriate field placement. Please note a student placement in a field setting is **not guaranteed** based on completion of pre-requisite courses.

3rd Year Students complete SWRK 3150: Field Instruction 1:

Students are required to complete 460 hours including 420 hours in field placement and 40 hours of integrated seminar. Students approved as eligible for field require a minimum Degree Grade Point Average (D.G.P.A.) of 2.5 and Subject Grade Point Average (S.G.P.A.) of 2.5.

4th Year Students complete SWRK 4120: Field Instruction 2:

Students are required to complete 460 hours including 420 hours in field placement and 40 hours of integrated seminar. Students approved as eligible for field require a minimum Degree Grade Point Average (D.G.P.A.) of 2.5 and Subject Grade Point Average (S.G.P.A.) of 2.5.

Students requiring additional information may contact the Field Coordinator at 204-677-1456.

Distance Delivery Program:

The student is responsible for securing their own Field Placements and need to follow the guidelines for securing Field Placements as per the website:

Distance Delivery Field Education Program:

http://umanitoba.ca/faculties/social_work/programs/distance/903.html

For more information on [Applying for Field](#) check out

http://umanitoba.ca/faculties/social_work/programs/distance/904.html

Field Application Forms are available online at:

http://umanitoba.ca/faculties/social_work/programs/distance/904.html

Students applying for field placement for the:

Fall/Winter Term (September to April):

Students must attend a Field Preparation web conference offered throughout the months of September to January and submit a completed Field Application Form by February 1st. Students approved as eligible for field require a minimum Degree Grade Point Average (D.G.P.A.) of 2.5 and Subject Grade Point Average (S.G.P.A.) of 2.5. Students will be required to complete a Field Preparation module outlining guidelines and procedures for applying and securing placements across Canada.

Students registered in SWRK 3150 or SWRK 4120 in Fall/Winter terms (September to April – 28 weeks) attend field placement two days or 15 hours per week for a total of 420 hours. Students who approved for Field must also register for the co-requisite Field Focus of Social Work Practice (SWRK 4200 or SWRK 4300) course.

Summer Term (May to August):

Students must attend a Field Preparation web conference offered throughout the months of September to January and must submit a completed Field Application Form by February 1. Students require a minimum Degree Grade Point Average (D.G.P.A.) of 3.0 and Subject Grade Point Average (S.G.P.A.) of 3.0 to be eligible to apply and will be required to complete a Field Preparation module outlining guidelines and procedures for applying and securing placements across Canada.

Students registered in SWRK 3150 or SWRK 4120 in the Summer term (May to August -14 weeks) attend field placement four days or 30 hours per week for a total of 420 hours. Students who approved for Field must also register for the co-requisite Field Focus of Social Work Practice (SWRK 4200 or SWRK 4300) course.

**Accelerated Field Fall/Winter Term (September to April):
Field Instruction 1 (SWRK 3150) and Field Instruction 2 (SWRK 4120)**

Students who have completed 75 credit hours including required pre-requisites and have maintained a minimum Degree Grade Point Average (D.G.P.A.) of 3.0 and Subject Grade Point Average (S.G.P.A.) of 3.0 are eligible to apply for Accelerated Field. Students complete Field Instruction 1, SWRK 3150 September – December followed by Field Instruction 2 SWRK 4120 January – April. Students registered in Accelerated Field Instruction attend field placement four days or 30 hours per week for a total of 840 hours by end of term in April.

Students who approved to take Accelerated Field must also register for two co-requisite Field Focus of Social Work Practice (SWRK 4200 and SWRK 4300) courses. The student will receive approval after their application is reviewed.

All students registered in Distance Delivery Field Instruction courses (SWRK 3150 and SWRK 4120) are required to complete several Field Instruction Modules and participate in a one-hour web conference prior to entering field placement. Completion of the Field Instruction Modules and attendance at Field Instruction Web Conference is mandatory.

Students requiring information may contact the Distance Delivery Field Assistant at 204-474-9537 or the Distance Delivery Field Coordinator at 204-474-8316

Field placements will not be approved for students who do not submit the completed Field Application Form by the deadline date. Final approval for field placement rests with the Distance Delivery Field Coordinator. Decisions may be based on availability of agency openings as well as the educational needs of students.

4.3 Requirements for Graduation

Eligibility for graduation is contingent upon:

- The successful completion of 72 credit hours of required Social Work courses; successful completion means attaining a minimum grade of "C" in all Social Work courses and a minimum Subject Grade Point Average (S.G.P.A.) of 2.50 (C+).
- The successful completion of 51 credit hours of electives. Students admitted after 1997/98, are required to successfully complete three credit hours of written English and three credit hours of Mathematics within the first 60 credit hours of their programs. The passing grades for electives taken in other faculties or schools are those required by the faculties or schools concerned. A minimum of "C" must be attained in Social Work electives. The minimum Degree Grade Point Average (D.G.P.A.) required for graduation is also 2.50 (C+).
- Total credit hours required for a B.S.W. are 123 (51 credit hours of electives + 72 credit hours of required Social Work courses).

Student Responsibilities

It is the student's responsibility to be familiar with all the requirements of the B.S.W. degree, to ensure compliance with degree program requirements, including prerequisite requirements, and to understand all relevant regulations, policies and practices. The final completion of degree requirements is the student's responsibility.

SECTION 5: Course Descriptions-1000 Level

SWRK 1310 Introduction to Social Welfare Policy Analysis Cr. Hrs. 3

Examination of social welfare policy as the end product of ideologies. Introduction of elements of ideology and the comparison of competing ideological systems. The relationship of economic, political and ethical views of society and their manifestations in societal responses to human need and social services.

SECTION 5: Course Descriptions-2000 Level

SWRK 2050 Community and Organizational Theory Cr. Hrs. 3

Deals with concepts such as conflict and power which relate social work practice to the nature of secondary human relationships. These are applied to the dynamics within and between communities and organizations.

SWRK 2070 Small Group Dynamics Cr. Hrs. 3

Group norms, values, and goal as they relate to decision-making and communication patterns in groups. Membership roles and leadership styles are related to group development and group functioning.

SWRK 2080 Interpersonal Communication Skills Cr. Hrs. 3

A basic core of interpersonal skills for communicating effectively and for establishing and maintaining relationships in one-to-one and group situations. Emphasis is on experiential learning using a variety of techniques.

SWRK 2090 Human Behaviour and Social Work Practice Cr. Hrs. 6

Students are introduced to a broad range of theories and will develop an understanding of how people and environments reciprocally affect each other. Particular emphasis is placed on understanding how gender, race, ethnicity, socioeconomic factors, age, ability, and sexual orientation contribute to and influence human behaviour throughout the lifespan.

SWRK 2110 Emergence of the Canadian Social Welfare State Cr. Hrs. 3

An examination of the emergence of the Canadian welfare state from its various colonial inheritances to the Canada Assistance Plan. Social, political, economic, religious, geographical, demographic and cataclysmic factors influencing the development of the welfare state are examined and analyzed. Prerequisite: SWRK 1310. Students may not hold credit for both SWRK 2110.

SWRK 2130 Comparative Social Welfare Systems Cr. Hrs. 3

The welfare systems of three modern societies are examined and compared. Economic, political, social, religious, geographical, demographic and cataclysmic factors influencing the development of the various models of social provision are analyzed for their significance to the Canadian welfare system. Prerequisite: SWRK 1310. Students may not hold credit for both SWRK 2130.

SWRK 2650 The Social Aspects of Aging Cr. Hrs. 3

An examination of the social aspects of aging. Emphasis on understanding the aging process as a life transition involving adaptation through interaction with social and physical environments. Students may not hold credit for REC 2650 and IDES 2650 or HMEC 2650 or SWRK 2650. (A required Option in Aging course)

SECTION 5: Course Descriptions-3000 Level

SWRK 3100 Systematic Inquiry in Social Work Cr. Hrs. 3

Relates systematic methods of scientific inquiry to social work practice; theory building for practice; information collection; descriptive data for decision-making, understanding technical research material, introduction to issues of research design.

SWRK 3130 Contemporary Canadian Social Welfare Cr. Hrs. 3

An examination of social welfare in Canadian society, leading to an evaluation of present approaches in the light of changing economic and social conditions and changing needs. Prerequisite: SWRK 1310.

SWRK 3140 Introduction to Social Work Practice Cr. Hrs. 3

Introduces students to ecological and other generalist based practice frameworks and the role of professional social workers. Course emphasizes values and knowledge in context of a rational approach to problem solving which includes problem definition, assessment, contracting, intervention and evaluation. Pre- or corequisite SWRK 1310, SWRK 2080 and SWRK 2090.

SWRK 3150 Field Instruction 1 Cr. Hrs. 12

A first educationally directed field experience in which the student will have the opportunity to assume responsibility for social work engagement, assessment, planning, intervention and evaluation, integrating theory from class. While Access Programs may require additional field hours, 420 hours

is the minimum required for all BSW students. This time commitment includes involvement with the agency in planning for, and engaging in, practice activity, and evaluation of performance. It also includes educational contact time with the field instructor in individual and/or group sessions. Subject to satisfactory completion and reports, students will be graded on a pass/fail basis. Prerequisites: SWRK 1310, SWRK 2080, SWRK 2090, and SWRK 3140, and consent by course instructor (Field Coordinator). Corequisite: 6 credit hours of SWRK 4200.

SWRK 3152 Field Instruction 1 **Cr. Hrs. 3**

PLAR(SWRK 3152) is a self-study course in which the student (upon acceptance) will have the opportunity to demonstrate basic knowledge as required of all students in first field placement. Students will be required to demonstrate learning in social work engagement, assessment, planning, intervention and evaluation, as well as integration of values and ethics and theoretical frameworks as attained in pre-requisite foundation courses. Applicants who have been accepted and register in SWRK 3152 in lieu of first field placement, SWRK 3150, will be required to complete workbook assignments on or before designated due dates and to contact PLAR Assessor when additional classification or support is required. Subject to satisfactory completion of assignments and reports, students will be evaluated and graded on a pass/fail basis. Prerequisites: SWRK 1310, SWRK 2080, SWRK 2090, SWRK 3140. Corequisites: SWRK 4200. Students may not hold credit for both SWRK 3152 and SWRK 3150.

SECTION 5: Course Descriptions-4000 Level

SWRK 4050 Selected Topics in Social Work **Cr. Hrs. 3**

Directed readings or concentrated study in some aspect of social service which is of interest to the student. Students must contract with an instructor prior to registration. Prerequisite: written consent of instructor.

SWRK 4070 Social Problem and Social Work Practice Seminar **Cr. Hs. 3**

In-depth study of the problem area, exploration of the ways other disciplines relate to the problem, and strengthening of interventive abilities of the student. Prerequisite: SWRK 3040 / SWRK 3120, SWRK 4200 / SWRK 3150 or written consent of instructor.

SWRK 4080 Current Issues in Social Welfare **Cr. Hrs. 3**

Study of a particular area of social welfare to improve policies and practices. Students may select one seminar from several which are offered. These may vary from year to year.

SWRK 4120 Field Instruction 2 **Cr. Hrs. 12**

A second educationally directed practice experience building on SWRK 3150 in which the student will have the opportunity to carry a sustained professional role in situations which require the integration of values, knowledge, and skill at the level of a beginning professional practitioner. While Access Programs may require additional field hours, 420 hours is the minimum required for all BSW students. This time commitment includes involvement with the agency in planning for, and engaging in, practice activity, and evaluation of performance. It also includes educational contact time with the field instructor in individual and/or group sessions. Subject to satisfactory completion and reports, students will be graded on a pass/fail basis. Prerequisites: 6 credit hours of SWRK 4200, and SWRK 3150, and consent by course instructor (Field Coordinator). Corequisite: 6 credit hours or SWRK 4300.

SWRK 4130 Advanced Interpersonal Communication Skills **Cr. Hrs. 3**

An experiential course for self-understanding and self-awareness to produce a disciplined and conscious use of self in professional communication and relationships. Prerequisites: SWRK 2080 and written consent of instructor.

SWRK 4200 Field Focus of Social Work Practice **Cr. Hrs. 6**

A seminar for the critical examination of social work theory, values, policy and skills in the context of a field or focus of practice. The course integrates policy with practice at micro, meso and macro levels. Course seminar topics may vary from year to year and are organized to cover various fields or focus of practice. Prerequisites: SWRK 1310, SWRK 2080, SWRK 2090, and SWRK 3140. Corequisite: SWRK 3150. Students cannot hold credit for both SWRK 4150 and SWRK 4200.

SWRK 4210 Feminist Perspectives on Social Work Practice and Social Welfare Policy **Cr. Hrs. 6**

An analysis of social work practice and welfare policy from a feminist perspective. Course emphasizes the integration of social work intervention with policy in the social welfare context and overlays concepts such as empowerment, ecological practice, oppression, and practice in context of cultural diversity. Prerequisites: SWRK 1310, SWRK 2080, SWRK 2090, and SWRK 3140. Students may not hold credit for both SWRK 4210 and SWRK 4170 or SWRK 4210 and SWRK 4190.

SWRK 4220 Aboriginal People and Social Work Practice **Cr. Hrs. 6**

An analysis of social work practice and welfare policy from an aboriginal perspective. The course emphasizes the linkage between practice and policy and overlays concepts such as colonization, decolonization, and approaches to practices which include cross culture, structure, and anti-oppression in the context of Aboriginal world views, experience and helping practices. Prerequisites: SWRK 1310, SWRK 2080, SWRK 2090, and SWRK 3140. Students may not hold credit for both SWRK 4220 and SWRK 4160 or SWRK 4220 and SWRK 4180.

SWRK 4250 Family Group Conferences **Cr. Hrs. 3**

This course provides an overview of the research, theory and application of Family Group Conferencing within the context of child and family services and the implications for intervention. Emphasis is on experiential learning of Family Group Conferencing process and techniques.

SWRK 4260 Addiction and CFS Practice **Cr. Hrs. 3**

The focus of this course is to increase the student's knowledge about addictions as well as to develop student's skills for intervention with families affected by addiction within the context of child and family services. Emphasis is on experiential learning of knowledge, process and techniques.

SWRK 4270 Crisis Intervention **Cr. Hrs. 3**

This course provides an overview of the research, theory and application of crisis intervention, methods and techniques within the context of child and family services. Emphasis will be on expanding existing knowledge through experiential learning of crisis intervention processes and techniques.

SWRK 4300 Field Focus of Social Work Practice 2 **Cr. Hrs. 6**

A seminar for the critical examination of social work theory, values, policy and skills in the context of a field or focus of practice. The course integrates policy with practice at micro, meso and macro levels. Course seminar topics may vary from year to year and are organized to cover various fields or focus of practice. For students admitted after 1993-1994. Prerequisite: SWRK 4200, SWRK 3150. Corequisite: SWRK 4120.

Facilities, Services and Resources

The [Student Guide](#) is a good information resource for being a student at the University of Manitoba.

The following is a list of selected facilities, services and resources which includes contact information for each of the University's colleges.

| | | |
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| ▶ Indigenous Student Centre (ISC) | ▶ University of Manitoba Aboriginal Students Association (UMASA) | ▶ Admissions Office |
| ▶ Answers Information | ▶ BookStore | ▶ Chaplains' Association |
| ▶ Colleges | ▶ Student Counselling Centre | ▶ Digital Copy Centre |
| ▶ Student Accessibility Services | ▶ English Language Centre | ▶ Financial Aid and Awards |
| ▶ Food Services | ▶ University Health Service | ▶ Homestay Program |
| ▶ Student Residences | ▶ Student Life | ▶ International Centre for Students (ICS) |
| ▶ Libraries | ▶ Parking Services | ▶ Office of Human Rights and Conflict Management |
| ▶ Peers: Students Helping Students | ▶ PlayCare Daycare Centre | ▶ Recreation Services |
| ▶ Registrar's Office | ▶ Sports (Bison Sports) | ▶ Student Advocacy |
| ▶ University of Manitoba Students' Union (UMSU) | ▶ Rainbow Pride Mosaic (RPM) | ▶ Womyn's Centre |

Sources of Information for All Students

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| Questions? | askumanitoba |
| Student Guide | Your guide for being a student at the University of Manitoba. |
| Academic Advising | Visit umanitoba.ca/student/academic-advisors/academic-advisors-list to locate your Faculty/School student advisor |
| Student Bus Passes | Answers Information Booth, 1 st Floor, University Centre |
| Career Counselling | Career Services , 474 University Centre, Fort Garry Campus |
| Creating Computer Accounts (UMnetID) | iridium.umanitoba.ca/ |
| Graduation and Convocation | umanitoba.ca/convocation/ |
| Fee Assessment | Aurora Student ; go to Enrolment and Academic Records |
| Financial Aid and Awards | umanitoba.ca/student/fin_awards |
| Medical Insurance | umsu.ca/services-and-support/health-dental , 110 University Centre International Students: umanitoba.ca/student/records/international_students/phc.html |
| Payment of Fees | Cashiers Office, 138 University Centre, Fort Garry Campus umanitoba.ca/feepayment |
| Personal Counselling | Student Counselling Centre , 474 University Centre Chaplains' Association , 102Y University Centre |
| Registration | umanitoba.ca/registrar (for information) Aurora Student (to activate registration) |
| Student Photo ID | umanitoba.ca/student/records/pii/photo_id.html |
| T2202A Education Tax Forms | More information about Canadian Tax Forms |
| Transferring Faculties/Schools | umanitoba.ca/admissions |
| Transit from University 1 | Aurora Student ; go to Enrolment and Academic Records, and then to Declarations |
| Transcripts | umanitoba.ca/student/records/transcripts |
| UMAchieve | UMAchieve is the University of Manitoba's degree audit system. Select programs are now available for student use. Log in through your U of M JUMP account. Click on the UMACHIEVE link to connect. |
| UM Learn | UM Learn is the University of Manitoba's online learning environment. |