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### IV **REPORT OF THE PRESIDENT**

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**(Research and International)**

**V QUESTION PERIOD**

Senators are reminded that questions related to matters not on the agenda shall normally be submitted in writing to the University Secretary no later than 10:00 a.m. of the Monday preceding the meeting.

Senators are reminded that questions pertaining to items on the agenda can be asked during the Senate meeting and do not require submission in advance.

**VI CONSIDERATION OF THE MINUTES OF THE SPECIAL MEETING OF DECEMBER 10, 2021**

**VII BUSINESS ARISING FROM THE MINUTES - none**

**VIII REPORTS OF THE SENATE EXECUTIVE COMMITTEE AND THE SENATE PLANNING AND PRIORITIES COMMITTEE**

**1. Reports of the Senate Executive Committee**

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Comments of the Senate Executive Committee will accompany the report on which they are made.

- c) **RE: Matters Approved on behalf Senate during UMFA Labour Action** Page 432

**2. Report of the Senate Planning and Priorities Committee**

The Chair will make an oral report of the Committee's activities.

**IX REPORTS OF OTHER COMMITTEES OF SENATE, FACULTY AND SCHOOL COUNCILS**

**1. Reports of the Faculty Council of the Faculty of Arts**

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- 4. **Report of the Senate Committee on Instruction and Evaluation** Page 638  
**RE: Revised Academic Progression Policy, Bachelor of Nursing, College of Nursing**

X **ADDITIONAL BUSINESS** - none

**XI MATTERS TO BE CONSIDERED IN CLOSED SESSION**

**1. Report of the Senate Committee on Honorary Degrees  
[January 7, 2022]**

The report will be provided to members of Senate at the meeting.

**XII ADJOURNMENT**

*Please send to [shannon.coyston@umanitoba.ca](mailto:shannon.coyston@umanitoba.ca).*

**Election of Senate Representatives to the Senate Executive Committee**

1. Subsection 34(1) of *The University of Manitoba Act* provides that:

The senate has general charge of all matters of an academic character; and, without restricting the generality of the foregoing, the senate shall ...

- (y) elect an executive committee, which shall include
  - (i) the president, who shall be chairman of the committee;
  - (ii) the member of the senate designated by the president to be vice-chairman of the committee;
  - (iii) three members of senate from among the vice-presidents of the university, the deans of faculties and directors of schools;
  - (iv) a member of the board who has been appointed to be a member of the senate;
  - (v) a member elected by the students to be a member of senate;
  - (vi) eight other members of the senate from those elected under section 27 [i.e., elected by faculty/school councils];

2. One Senator is to be elected as follows:

- (a) One Senator for the balance of a three-year term effective immediately upon election to May 31, 2024 to replace Cheryl Dika whose term on Senate expired on October 15, 2021:
  - (i) eligible for election are members of Senate elected by faculty/school councils;
  - (ii) presently serving:

Prof. Robert Biscontri	Management	2022
Prof. Derek Oliver	Engineering	2022
Prof. Tina Chen	Arts	2023
Ms Grace O'Hanlon	Libraries	2023
Prof. Peter Blunden	Science	2024
Prof. Michelle Faubert	Arts	2024
Prof. Rusty Souleymanov	Social Work	2024

3. Procedures:

- (a) Nominations for the positions shall be received from the floor.
- (b) Senators shall vote for no more than one candidate in each category on the ballot provided. For the January, 2022 election, this election will be done via an electronic

vote. Members of Senate will be sent a message during the meeting providing a link to cast their vote electronically.

- (c) The candidate receiving the largest number of votes shall be elected.
- (d) In the event of a tie, the question shall be resolved by another ballot involving those candidates who have tied.



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## MEMORANDUM

**DATE:** November 26, 2021  
**TO:** Members of Senate  
**FROM:** Jeff M. Leclerc, University Secretary  
**SUBJECT:** Re-appointment of the Chancellor

Every three years, the Chancellor of the University is elected by the Committee of Election. Chancellor Anne Mahon's current term as Chancellor of the University of Manitoba concludes on May 31, 2022. She has served as Chancellor since January 1, 2019 and has indicated that she would be willing to be re-appointed as Chancellor for an additional three-year term.

The Chancellor is formally elected and re-appointed by the Committee of Election. As provided for in *The University of Manitoba Act*, the Committee of Election is a body comprised of all members of the Board of Governors and all members of the Senate, meeting in joint session. The Chair of the Board of Governors is the Chair of the Committee of Election, while the University Secretary, as Secretary of Senate, is designated as Secretary of the Committee of Election.

To facilitate the election and re-appointment of a Chancellor, the Board of Governors and the Senate approved a revised Policy on the Election of the Chancellor in 2021. This Policy provides for a Chancellor Search Committee to, in the case where the incumbent Chancellor is eligible and willing to be re-appointed, consider whether the Chancellor should be recommended for re-appointment.

The Chancellor Search Committee is comprised of:

- The Chair of the Board of Governors (as Chair);
- The President
- Three members of Senate who are not students, elected by Senate;
- Two members of the Board of Governors (in addition to the Chair), elected by the Board;
- Two students, one undergraduate and one graduate, elected by Senate;
- Two members of the University of Manitoba Alumni Association, nominated by the Alumni Association; and
- The University Secretary, as secretary (non-voting).

The Committee of Election will meet on April 6, 2022 at 1:00 p.m.



I write to request that Senate elect its members to the Chancellor Search Committee at the January 12, 2022 meeting, with the anticipation that the Chancellor Search Committee will meet sometime mid to late-February. Nominations for the Chancellor Search Committee will be received from the floor of Senate in the same manner as nominees are presented for Senate members on the Executive Committee and the Board of Governors.

/jml

Copy: Ms. Laurel Hyde, Chair, Chancellor Search Committee

**Report of the Senate Committee on Curriculum and Course Changes - Submitted to Senate for Concurrence Without Debate**

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**Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. Since last reporting to Senate, the Senate Committee on Curriculum and Course Changes (SCCCC) met on October 8, 13, 15, 21, and 29, 2021, and participated in an electronic poll conducted between November 1 – 3, 2021, to consider curriculum and course changes from Faculties, Colleges, and Schools.
3. The Report outlines course and curriculum changes endorsed by the SCCCC at the meetings noted above.
4. Proposed course deletions, introductions, and modifications, and program modifications are described in detail in the attachment to the Report. All changes are effective for the 2022 Fall Term, except where indicated otherwise within the Report.

**Observations:**

1. **General**

In keeping with past practice, most changes for departments totalling less than ten credit hours are forwarded to Senate for concurrence without debate. This is in accordance with the Senate’s recommendation approved July 3, 1973, that course changes would cease to go to the SPPC when the resource implications are intra-faculty. Deans and Directors are to assess the resource implications to the respective units when course changes are proposed. Major changes in existing programs are to be referred to the SPPC for assessment of resource implications.

2. **Courses Recommended for the Written English Requirement**

GRMN 2520 Spies: Stories of Secret Agents, Treason, and Surveillance (C) 3 cr  
GRMN 2530 My Friend the Tree: Environment and Ecology in German Culture in English Translation (C) 3cr  
INDG 2020 The Métis in Canada 3 cr  
INDG 2110 Introduction to Indigenous Community Development 3 cr  
INDG 2530 Introduction to Indigenous Theory 3 cr

3. **Courses to be Removed from the List of Written English Courses**

CDN 1130 Introduction to Canadian Studies 6 cr  
NATV 1200 Indigenous Peoples in Canada 6 cr  
NATV 1220 Indigenous Peoples in Canada, Part 1 3 cr  
NATV 1240 Indigenous Peoples in Canada, Part 2 3 cr  
NATV 2020 The Métis in Canada 3 cr  
NATV 2110 Introduction to Indigenous Community Development 3 cr

4. **Courses to be Added to the Recommended Introductory Course List**

INDG 1000 Orientation Course: The Colonizers and the Colonized 3 cr  
INDG 1200 Indigenous Peoples in Canada 6 cr  
INDG 1220 Indigenous Peoples in Canada, Part 1 3 cr  
INDG 1240 Indigenous Peoples in Canada, Part 2 3 cr  
INDG 1250 Introductory Cree 1 3 cr  
INDG 1260 Introductory Cree 2 3 cr  
INDG 1270 Introductory Anishinaabemowin (Ojibwe) 1 3 cr  
INDG 1280 Introductory Anishinaabemowin (Ojibwe) 2 3 cr  
INDG 1300 Selected Topics in Introductory Indigenous Language 3 cr  
INDG 1310 Introductory Anishinaabemowin (Ojibwe) Immersion 3 cr  
INDG 1320 Anishinaabemowin (Ojibwe) Literacy for Fluent Speakers 3 cr  
INDG 2012 Indigenous History in Canada 6 cr  
INDG 2020 The Métis in Canada 3 cr

5. **Courses to be Removed from the Recommended Introductory Course List**

CDN 1130 Introduction to Canadian Studies 6 cr  
NATV 1000 Orientation Course: The Colonizers and the Colonized 3 cr  
NATV 1200 Indigenous Peoples in Canada 6 cr  
NATV 1220 Indigenous Peoples in Canada, Part 1 3 cr  
NATV 1240 Indigenous Peoples in Canada, Part 2 3 cr  
NATV 1250 Introductory Cree 1 3 cr  
NATV 1260 Introductory Cree 2 3 cr  
NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1 3 cr  
NATV 1280 Introductory Anishinaabemowin (Ojibwe) 2 3 cr  
NATV 1300 Selected Topics in Introductory Indigenous Language 3 cr  
NATV 1310 Introductory Anishinaabemowin (Ojibwe) Immersion 3 cr  
NATV 1320 Anishinaabemowin (Ojibwe) Literacy for Fluent Speakers 3 cr  
NATV 2012 Indigenous History in Canada 6 cr  
NATV 2020 The Métis in Canada 3 cr

6. **Faculty of Arts**

Faculty of Arts

The faculty is proposing modifications to the Bachelor of Arts Integrated Studies that follow from course changes proposed by the Faculty of Social Work, as detailed in the attachment to this Report. *The changes will take effect for the Fall 2023, pending Senate approval of the proposed SWRK course changes.*

The faculty is updating the Faculty of Arts Humanities Listing. The revisions follow from recent changes by the Department Indigenous Studies (formerly the Department of Native Studies; Senate, November 3, 2021), to amend terminology used from “Native” to “Indigenous” and to replace the NATV subject code with the subject code “INDG.”

The faculty is proposing modifications to the programs listed below, as detailed in the attachment to this Report. The changes are consistent with those concurrently proposed by the Department of Mathematics, Faculty of Science, for Bachelor of Science degrees in Mathematics. The program notes would be updated to set out allowable substitutions

for several required MATH courses and to specifically prohibit the use of several MATH courses, as well as FA 1020 Mathematics in Art, for credit toward the degree.

- **Bachelor of Arts (General Major) in Mathematics**
- **Bachelor of Arts (Single Advanced Major) in Mathematics**
- **Minor in Mathematics**

The faculty is proposing to revise the list of courses that would satisfy the **Bachelor of Arts Science Requirement**, to include FA 1020 Mathematics in Art.

The faculty is proposing to revise the list of courses that would satisfy the **Bachelor of Arts Indigenous Content Requirement (ICR)**, to include AGRI 2300 Indigenous Issues in Food Systems and THTR 2200 Canadian Indigenous Theatre, and to reflect course changes proposed by the Department of Indigenous Studies that following from replacing the current subject code “NATV” with the new “INDG” subject code.

The faculty is providing, for information, a clarification of the requirements for the **Bachelor of Arts (Double Honours) degrees**, including for the B.A. (Double Honours) in Economics and the B.A. (Double Honours) in Sociology, in particular, as outlined in the attachment to the Report.

### Anthropology

The department is proposing the introduction of two (2) courses. The number of credit hours the department offered would increase by 6 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. The modifications follow from course changes proposed by the Department of Indigenous Studies (formerly the Department of Native Studies; Senate, November 3, 2021). Specifically, to replace the NATV subject code with the subject code “INDG.”

- **Bachelor of Arts (General Major) in Anthropology**
- **Bachelor of Arts (Single Advanced Major) in Anthropology**
- **Bachelor of Arts (Double Advanced Major) in Anthropology**
- **Bachelor of Arts (Single Honours) in Anthropology**
- **Minor (Concentration) in Anthropology**

### Canadian Studies

The program is proposing the deletion of one (1) course and the modification of one (1) course. The number of credit hours offered by the program would decrease by 6 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. Modifications follow from course changes proposed by the program and by the Departments of History, Icelandic Language and Literature, and Indigenous Studies, including to replace the “NATV” subject code with the subject code “INDG,” and from course deletions previously made by the Université de Saint-Boniface.

- **Bachelor of Arts (General Major) in Canadian Studies**
- **Bachelor of Arts (Single Honours) in Canadian Studies**
- **Bachelor of Arts (Double Honours) in Canadian Studies**

- **Minor (Concentration) in Canadian Studies**

#### Central and Eastern European Studies

The program is proposing modifications to the programs listed below, involving changes to the List of Approved Courses in Central and Eastern European Studies, as detailed in the attachment to the Report. Five German, Hungarian, Polish, and Russian courses to be added to the list would enhance course options for students enrolled in the programs. Two German courses to be removed from the List are proposed for deletion, by the Department of German and Slavic Studies.

- **Bachelor of Arts (General Major) in Central and Eastern European Studies**
- **Bachelor of Arts (Single Advanced Major) in Eastern European Studies**
- **Bachelor of Arts (Single Advanced Major) in Eastern European Studies, Co-operative Education Option**
- **Bachelor of Arts (Double Advanced Major) in Eastern European Studies**
- **Bachelor of Arts (Double Honours) in Eastern European Studies**
- **Minor (Concentration) in Eastern European Studies**

#### Economics

The department is proposing the modification of two (2) courses. There would be no change to the number of credit hours offered by the department.

The department is proposing modifications to the **Bachelor of Arts (Joint Honours) in Economics and Mathematics**. The program notes would be revised to prohibit the use of several MATH courses, as well as FA 1020 Mathematics in Art, for credit toward the degree. The Department of Mathematics, Faculty of Science, is proposing corresponding changes to the Bachelor of Science (Joint Honours) in Mathematics and Economics.

#### English, Theatre, Film & Media

The department is proposing the deletion of three (3) courses and the introduction of six (6) courses. There would be no change to the number of credit hours offered by the department.

The department is proposing modifications to the programs listed below, involving changes to the list, Literature Prior to 1900, as detailed in the attachment to the Report. Courses to be deleted will be removed from the list and two courses will be added, ENGL 2620 Introduction to Print Culture and Book History and ENGL 3620 Special Topics in Print Culture and Book History.

- **Bachelor of Arts (General Major) in English**
- **Bachelor of Arts (Single Advanced Major) in English**
- **Bachelor of Arts (Double Advanced Major) in English**
- **Bachelor of Arts (Single Honours) in English**
- **Bachelor of Arts (Double Honours) in English**
- **Minor (Concentration) in English**

### French, Spanish and Italian

The department is proposing the introduction of two (2) courses and the modification of one (1) course. The number of credit hours offered by the department would increase by 6 credit hours.

### German and Slavic Studies

The department is proposing the deletion of five (5) courses, the introduction of six (6) courses, and the modification of four (4) courses. The number of credit hours offered by the department would increase by 6 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. A requirement for GRMN 2140 - Exploring German Literature would be revised to allow students to complete either GRMN 2140 or GRMN 2480 Special Topics in German (B), as GRMN 2140 is not offered every year.

- **Bachelor of Arts (Single Honours) in German**
- **Bachelor of Arts (Single Honours) in German, Co-operative Education Option**
- **Bachelor of Arts (Double Honours) in German**

Modifications to the **Bachelor of Arts (General Major) in Russian** follow from proposals to delete two advanced Russian language courses and to introduce two new advanced (3000- level RUSN) courses. The revised curriculum would be more flexible for students, who are required to complete 6 credit hours of advanced Russian, as the courses to be introduced would not need to be taken in consecutive order.

### Global Political Economy

The program is proposing modifications to the programs listed below, involving revisions to List A, as detailed in the attachment to the Report. In Year 3, a requirement for ANTH 3320 Women in Cross-Cultural Perspective will be revised to require ANTH 3320 or SOC 3350 Feminism and Sociological Theory or SOC 3810 Sociological Perspectives on Gender and Sexuality. The Anthropology course is not offered every year. The modifications will ensure students can progress through the program in a timely way. The alternate courses would ensure students are exposed to feminist and gender theory and perspectives.

The three courses, ANTH 3320, SOC 3350, and SOC 3810, will be added to List A, to allow students with a focused interest in gender and feminist theory to take more courses in this area.

- **Bachelor of Arts (General Major) in Global Political Economy**
- **Bachelor of Arts (Single Advanced Major) in Global Political Economy**

### History

The department is proposing the deletion of one (1) course and the modification of five (5) courses. The number of credit hours offered by the department would decrease by 6 credit hours.

### Icelandic Language and Literature

The department is proposing the modification of one (1) course. The number of credit hours offered by the department would be unchanged.

### Indigenous Studies

(Formerly the Department of Native Studies; Senate, November 3, 2021)

The department is proposing the deletion of seventy-three (73) courses and the introduction of seventy-five (75) courses. The number of credit hours offered by the department would increase by 3 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. The revisions, including changes to program names, follow from (i) a recent change to the department name from Department of Native Studies to Department of Indigenous Studies and (ii) proposed course changes, to replace the NATV subject code with the subject code "INDG."

- **Bachelor of Arts (General Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (General Major) in Indigenous Studies**
- **Anishinaabemowin (Ojibwe) Focus**
- **Cree Language Focus**
- **Bachelor of Arts (Single Advanced Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (Single Advanced Major) in Indigenous Studies**
- **Bachelor of Arts (Single Advanced Major) in Native Studies, Aboriginal Governance Stream**
  - *Renamed:* **Bachelor of Arts (Single Advanced Major) in Indigenous Studies, Indigenous Governance Stream**
- **Bachelor of Arts (Double Advanced Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (Double Advanced Major) in Indigenous Studies**
- **Minor (Concentration) in Indigenous Languages (Option 1)**
- **Minor (Concentration) in Indigenous Languages (Option 2)**
- **Minor (Concentration) in Native Studies**
  - *Renamed:* **Minor (Concentration) in Indigenous Studies**

### Labour Studies

The program is proposing modifications to the programs listed below, as detailed in the attachment to the Report. The Labour Studies electives list will be revised to reflect course changes proposed by the Departments of History and Indigenous Studies.

- **Bachelor of Arts (General Major) in Labour Studies**
- **Bachelor of Arts (Single Advanced Major) in Labour Studies**
- **Bachelor of Arts (Single Advanced Major) in Labour Studies, Co-operative Education Option**
- **Minor (Concentration) in Labour Studies**

## Linguistics

### Program proposals:

The department is proposing to modify the programs listed below, to introduce a Co-operative Education Option, as detailed in the attachment to the Report. The structure of the program would be consistent with that established by the Faculty of Arts, for all of its Co-operative Education Options, as approved by Senate (May 16, 2018). Students would be required to complete the 120 credit hours required for the Single Advanced Major, including 3 credit hours of work placements (ARTS 3010 Arts Co-operative Option 1, ARTS 3020 Arts Co-operative Option 2, ARTS 3030 Arts Co-operative Option 3), for a minimum of twelve months, that would replace 3 credit hours of electives (free options).

Introduction of a Co-operative Education Option would give students an opportunity to develop skills in the workplace during their program of study. Many Linguistics students who plan to pursue postgraduate programs in Speech Language Pathology work as volunteers to gain relevant experience. Offering them the option to pursue paid program-related employment through co-op placements would provide them with a means to strengthen their applications. For students not planning further studies, completing the Co-operative Education Option would reinforce marketable and transferable skills and knowledge obtained through their degree and would make them competitive when entering the job market. The programs would highlight the practical aspect of programs in the Faculty of Arts and respond to the demands of students who choose a work-oriented approach to their studies.

The department indicated it has sufficient academic advising capacity to support the program. Students would also have access to supports provided by the existing Faculty of Arts Co-op Coordinator.

- **Bachelor of Arts (Single Advanced Major) in Linguistics, Co-operative Education Option**
- **Bachelor of Arts (Single Honours) in Linguistics, Co-operative Education Option**

The department is proposing one modification to the Linguistics Program Transition Plan that was included with course change and program modification proposals previously approved by Senate (December 2, 2020), effective for the 2021 Fall Term. Specifically, the revised transition plan would allow continuing students to use LING 1420 toward a 2000 level course requirement in the recently modified Linguistics programs.

## Medieval and Early Modern Studies

The program is proposing modifications to the programs listed below, as detailed in the attachment to the Report. The Group 2 Literatures, Art and Languages course listing would be revised to reflect the proposed deletion of ENGL 3020 Milton.

- **Bachelor of Arts (General Major) in Medieval and Early Modern Studies**
- **Bachelor of Arts (Single Advanced Major) in Medieval and Early Modern Studies**
- **Minor (Concentration) in Medieval and Early Modern Studies**



## Religion

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. One course that is no longer offered, RLGN 3780 Selected New Testament Literature and Themes, will be removed from the Religious Traditions (Christianity) course list.

- **Bachelor of Arts (General Major) in Religion**
- **Bachelor of Arts (Single Advanced Major) in Religion**
- **Bachelor of Arts (Double Advanced Major) in Religion**
- **Bachelor of Arts (Single Honours) in Religion**
- **Bachelor of Arts (Double Honours) in Religion**

## Sociology and Criminology

The department is proposing the modification of two (2) courses. The number of credit hours offered by the department would not change.

## Women's and Gender Studies

The program is proposing the introduction of one (1) course and the modification of two (2) courses. The number of credit hours offered by the department would increase by 3 credit hours.

The program is proposing modifications to the programs listed below involving revisions to List A, as detailed in the attachment to the Report. The changes follow from course changes proposed by the Departments of German and Slavic Studies, History, and Indigenous Studies.

- **Bachelor of Arts (General Major) in Women's and Gender Studies**
- **Bachelor of Arts (Single Advanced Major) in Women's and Gender Studies**
- **Bachelor of Arts (Double Advanced Major) in Women's and Gender Studies**
- **Bachelor of Arts (Single Honours) in Women's and Gender Studies**
- **Bachelor of Arts (Double Honours) in Women's and Gender Studies**
- **Minor (Concentration) in Women's and Gender Studies**

## 7. Faculty of Engineering

### Faculty of Engineering

The faculty is proposing to modify the **Minor in Geological Sciences**, as set out in the attachment to the Report. The change follows from a proposal from the Department of Earth Sciences, to change the name of the program to the "Minor in Earth Sciences." (Senate, November 3, 2021)

### Biosystems Engineering

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. Revisions to the Indigenous Knowledge Course list follow from course changes proposed by the Department of Native Studies, Faculty of Arts. Specifically, to change the NATV subject code to INDG.

- **Bachelor of Science in Engineering (Biosystems)**

- **Bachelor of Science in Engineering (Biosystems), Co-operative Education Option**

#### Civil Engineering

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. Revisions to the Indigenous Knowledge Course list follow from course changes proposed by the Department of Native Studies, Faculty of Arts. Specifically, to change the NATV subject code to INDG.

- **Bachelor of Science in Engineering (Civil)**
- **Bachelor of Science in Engineering (Civil), Co-operative Education Option**

#### Mechanical Engineering

The department is proposing the modification of three (3) courses. The number of credit hours offered by the department would not change.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. Revisions to the Indigenous Knowledge Course list follow from course changes proposed by the Department of Native Studies, Faculty of Arts. Specifically, to change the NATV subject code to INDG.

- **Bachelor of Science in Engineering (Mechanical)**
- **Bachelor of Science in Engineering (Mechanical), Co-operative Education Option**

### 8. **Faculty of Environment, Earth, and Resources**

#### Earth Sciences

The department is proposing modifications to the programs listed below, including to (i) change the names of the List A Electives, List B Electives, and List P Electives, to “Geophysics Course Electives List,” “Earth Science Course Electives List,” and “Physical Science Course Electives List,” respectively; (ii) to revise the last electives list, to add ASTR 2000, ASTR 3180, CHEM 2600, CHEM 3600, and to remove CHEM 2290 and PHYS 3180.

- **Bachelor of Science in Geological Sciences (Honours) - Geophysics**
- **Bachelor of Science in Geological Sciences (Major) – Geophysics**

#### Environment and Geography

The department is proposing the introduction of one (1) course and the modification of one (1) course. The overall number of credit hours offered by the department would increase by 3 credit hours.

9. **Faculty of Health Sciences**

Interdisciplinary Health Program

The program is proposing the deletion of one (1) course and the modification of one (1) course. The overall number of credit hours offered by the program would not change.

The program is proposing modifications to the programs listed below, as detailed in the attachment to the Report. Modifications to the degree requirements would allow students to complete PHIL 2290 – Ethics and Society in lieu of PHIL 2740 – Ethics and Biomedicine, as a required course rather than an elective. The subject code for required and elective Native Studies (NATV) courses will be updated to “INDG,” based on a recent proposal from the Department of Native Studies to change its name to the Department of Indigenous Studies (Senate, November 3, 2021).

- **Bachelor of Health Sciences**
- **Bachelor of Health Studies**
  - **Health Policy, Planning, and Evaluation Concentration**
  - **Health Promotion and Education Concentration**
  - **Family Health Concentration**

10. **College of Nursing**

The college is proposing the modification of eight (8) courses. There would be no change to the overall number of credit hours in course offerings.

The course modifications involve changes to the course prerequisites that will lead to changes to the sequence in which the courses must be completed in Year 3 of the Bachelor of Midwifery degree. There would be no changes to the courses required to complete the degree.

11. **College of Pharmacy**

The college is proposing the modification of one (1) course, PHMD 4000 Pharmacy Research Project, to change the grading mode to Pass/Fail from a letter grade. The change would take effect for the 2022 Summer Term.

12. **Faculty of Science**

Faculty of Science

The faculty is proposing the introduction of one (1) interdisciplinary course, SCI 4100 The Art of Scientific Visualization. The number of credit hours offered by the faculty would increase by 3 credit hours.

The faculty is proposing to revise its academic regulation concerning **Minors for Science Students**, as detailed in the attachment to the Report. Specifically, the list of eligible Minors not offered by the Faculty of Science will be revised to include several additional programs and to update names for several existing programs.

The faculty is proposing modifications to the programs listed below, to allow students to hold (STAT 1000 – Basic Statistical Analysis 1 and STAT 2000 – Basic Statistical Analysis 2), with a minimum grade of B in STAT 2000, in lieu of STAT 1150 – Introduction to Statistics and Computing, as detailed in the attachment to the Report. The substitution, which is allowed for other programs in Actuarial Mathematics, Computer Science, Mathematics, and Statistics, was inadvertently omitted from the program notes, in the proposal to establish the Data Science program (Senate, March 4, 2020). The change will bring the program in line with the other programs and will facilitate the transfer of students into the program, including students entering from University 1.

- **Bachelor of Science (Major) in Data Science**
- **Bachelor of Science (Major) in Data Science, with Co-operative Option**

### Biological Sciences

The department is proposing the introduction of two (2) courses and the modification of eight (8) courses. The number of credit hours offered by the department would increase by 6 credit hours.

### Chemistry

The department is proposing the introduction of one (1) course and the modification of thirty-six (36) courses. The number of credit hours offered by the department would increase by 3 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. A note will be added to the program chart to indicate that, CHEM 1018, CHEM 2523 and CHEM 3331 cannot be counted toward the 120 credit hours required for the degrees. The course, CHEM 1018, is not sufficiently advanced. The department indicated that CHEM 2523 – Complément de techniques de la chimie analytique and CHEM 3331– Applications de la spectroscopie en chimie inorganique cannot be used in lieu of CHEM 3520 – Instrumental Analysis Laboratory and CHEM 3320 – Inorganic Chemistry Laboratory, respectively, as the courses are mutually exclusive, rather than equivalent courses.

- **Bachelor of Science (Honours) in Chemistry**
- **Bachelor of Science (Honours) in Chemistry, Co-operative Option**
- **Bachelor of Science (Major) in Chemistry**
- **Bachelor of Science (Major) in Chemistry, Co-operative Option**

### Mathematics

The department is proposing the modification of nine (9) courses. The number of credit hours offered by the department would not change.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. A note will be added to the program charts to indicate MATH courses that cannot be used for credit toward the degree, including as elective credit. These courses are MATH 1010 – Applied Finite Mathematics, MATH 1018 – Pre-Calculus in Practice, MATH 1020 – Mathematics in Art, FA 1020 - Mathematics in Art,

MATH 1080 – Fundamentals of Mathematical Reasoning, and MATH 1090 – Mathematical Reasoning in Euclidean Geometry.

- **Bachelor of Science (Honours) in Mathematics**
- **Bachelor of Science (Honours) in Mathematics, Co-operative Option**
- **Bachelor of Science (Double Honours) in Mathematics**
- **Bachelor of Science (Double Honours) in Mathematics, Co-operative Option**
- **Bachelor of Science (Major) in Mathematics**
- **Bachelor of Science (Major) in Mathematics, Co-operative Option**
  
- **Bachelor of Science (Major) in Applied Mathematics with Computer Science Option**
- **Bachelor of Science (Major) in Applied Mathematics with Computer Science Option, Co-operative Option**
- **Bachelor of Science (Major) in Applied Mathematics with Economics Option**
- **Bachelor of Science (Major) in Applied Mathematics with Economics Option, Co-operative Option**
- **Bachelor of Science (Major) in Applied Mathematics with Statistics Option**
- **Bachelor of Science (Major) in Applied Mathematics with Statistics Option, Co-operative Option**
  
- **Bachelor of Science (Joint Honours) in Computer Science and Mathematics**
- **Bachelor of Science (Joint Honours) in Computer Science and Mathematics, Co-operative Option**
- **Bachelor of Science (Joint Honours) in Mathematics and Economics**
- **Bachelor of Science (Joint Honours) in Statistics and Mathematics**
- **Bachelor of Science (Joint Honours) in Statistics and Mathematics, Co-operative Option**

### Microbiology

The department is proposing the deletion of one (1) course, the introduction of two (2) courses, and the modification of twenty-two (22) courses. The number of credit hours offered by the department would increase by 3 credit hours.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. The Year 3 – 4 requirements, for the Honours program, including the Co-operative Option, will be revised to add the new courses, MBIO 4300 – Infectious Diseases Around the World and MBIO 4442 – Research in Systems Microbiology to lists of electives and to remove MBIO 4440 – Systems Microbiology: from Genomes to Life, which is to be deleted. The lecture content of MBIO 4442 is identical to that of MBIO 4440 but without the laboratory component, the key elements of which will be integrated into the existing lab-based course MBIO 3600. This modification is part of departmental strategy to decouple lecture and laboratory components of courses into separate lecture-based and lab-based courses, to improve the efficiency and efficacy of lab instruction by reducing redundant lab content.

The Option List for All Microbiology Programs will be updated to remove UM courses that are no longer offered, as well as equivalent courses offered by the Université de Saint-Boniface, for consistency with other program charts in the Academic Calendar and given that they are treated as equivalent courses in Aurora INB.

- **Bachelor of Science (Honours) in Microbiology**
- **Bachelor of Science (Honours) in Microbiology, Co-operative Option**
- **Bachelor of Science (Major) in Microbiology**
- **Bachelor of Science (Major) in Microbiology, Co-operative Option**

### Physics and Astronomy

The department is proposing the modification of five (5) courses. The number of credit hours offered by the department would not change.

The department is proposing modifications to the programs listed below, as detailed in the attachment to the Report. A note will be added to the program charts to indicate PHYS 1018 -The Mechanics of Nature cannot be used for credit toward the 120 credit hours required for a Major or Honours degree, as the content is not sufficiently advanced for these programs.

- **Bachelor of Science (Honours) in Physics and Astronomy, Astronomy and Astrophysics**
- **Bachelor of Science (Honours) in Physics and Astronomy, Astronomy and Astrophysics, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Physics**
- **Bachelor of Science (Honours) in Physics and Astronomy, Physics, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Medical and Biological, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Medical and Biological, Co-operative Option**
- **Bachelor of Science (Major) in Physics and Astronomy**
- **Bachelor of Science (Major) in Physics and Astronomy, Co-operative Option**
- **Bachelor of Science (Joint Honours) in Computer Science and Physics and Astronomy, Co-operative Option**
- **Bachelor of Science (Joint Honours) in Mathematics and Physics and Astronomy**

The department is proposing modifications to the program listed below, as detailed in the attachment to the Report. A note will be added to the program chart to indicate that, in addition to PHYS 1018 and CHEM 1018, CHEM 2523 and CHEM 3331 cannot be counted toward the 120 credit hours required for the degrees. While PHYS 1018 and CHEM 1018 are not sufficiently advanced, the department indicated that CHEM 2523 – Complément de techniques de la chimie analytique and CHEM 3331– Applications de la spectroscopie en chimie inorganique cannot be used in lieu of CHEM 3520 – Instrumental Analysis Laboratory and CHEM 3320 – Inorganic Chemistry Laboratory, respectively, as the courses are mutually exclusive, rather equivalent courses.

- **Bachelor of Science (Joint Honours) in Chemistry and Physics**

The department is proposing modifications to the program listed below, as detailed in the attachment to the Report. A note will be added to the program chart to indicate that, in addition to PHYS 1018, several MATH courses cannot be used for credit toward the

degree, including MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, and MATH 1090, for the reasons noted above, for other Physics and Mathematics programs.

- **Bachelor of Science (Joint Honours) in Mathematics and Physics and Astronomy, Co-operative Option**

### **Recommendation**

The Senate Committee on Curriculum and Course Changes recommends that curriculum and course changes from the units listed below, be approved by Senate:

#### **Faculty of Arts**

##### **Program proposals:**

- **Bachelor of Arts (Single Advanced Major) in Linguistics, Co-operative Education Option**
- **Bachelor of Arts (Single Honours) in Linguistics, Co-operative Education Option**

#### **Faculty of Engineering**

#### **Faculty of Environment, Earth, and Resources**

#### **Faculty of Health Sciences**

#### **College of Nursing**

#### **College of Pharmacy**

#### **Faculty of Science**

Respectfully submitted,

Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Faculty of Arts

Faculty of Arts

Program modification (*effective Fall 2023, pending Senate approval of SWRK course changes*):

Modifications to the Bachelor of Arts in Integrated Studies are outlined on the next page.



## Bachelor of Arts Integrated Studies (B.A.I.S.)

- The Faculty of Social Work proposes the deletion of SWRK 2080 and the introduction of a new, similar course SWRK 2030 Communication and Relational Skills in Social Work. This proposal is in response to changes proposed by the Faculty of Social Work.

### Added Material

### ~~Deleted Material~~

## General Structure of the B.A.I.S. Degree Program

The Bachelor of Arts Integrated Studies Program is ~~comprised~~ composed 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

Course	Title	Hours
ARTS 1110	Introduction to University	3
EDUA 1560	Adult Learning and Development	3
<del>SWRK 2080</del>	<del>Interpersonal Communication Skills</del>	3
<u>SWRK 2030</u>	<u>Communication and Relational Skills in Social Work</u>	
or ENGL 0930	English Composition	
Select a 3 credit hour course that satisfies the mathematics requirement <sup>1</sup>		3
ARTS 1160	Leadership: An Interdisciplinary Approach	3
Select 6 credit hours of introductory courses from the Departments of Psychology or Sociology or Anthropology or Political Studies <sup>2</sup>		6
<b>Total Hours</b>		<b>21</b>

<sup>1</sup> See List of Approved Written English and Mathematics courses found under the General Academic Regulations in the Undergraduate Calendar.

<sup>2</sup> 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.

Program modification:

Modifications to the **Faculty of Arts Humanities Listing** are outlined on the next page.

## Faculty of Arts Humanities listing

- Modification to the calendar paragraph describing Humanities to reflect the change from the Department of Native Studies to the Department of Indigenous Studies, etc.

Added Material

Deleted Material

## Humanities

- 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, Indigenous Native Languages, Indigenous 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.
- 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).

Program modification:

Modifications to the following programs are outlined on the next 5 pages:

- **Bachelor of Arts (General Major) in Mathematics**
- **Bachelor of Arts (Single Advanced Major) in Mathematics**
- **Minor in Mathematics**

Bachelor of Arts – Mathematics Major Programs (General, Single Advanced Major, Minor (Concentration))

- The Department of Mathematics proposes changes to their degree requirements that need to be reflected in the Bachelor of Arts Mathematics programs. The proposal that follows is a result of changes being made by the Department of Mathematics.

Added Material

~~Deleted Material~~

## Mathematics, B.A. General Major

### Degree Requirements

Year 1		Hours
MATH 1220	Linear Algebra 1 <sup>1</sup>	3
MATH 1230	Differential Calculus <sup>1</sup>	3
MATH 1232	Integral Calculus <sup>1</sup>	3
MATH 1240	Elementary Discrete Mathematics <sup>1</sup>	3
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
12 credit hours from outside of your Major and Minor areas of study		12
<b>Hours</b>		<b>30</b>
Years 2-3		
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)		18
12 credit hours from your Minor area of study as described in that unit's section of the calendar		12
18 credit hours from outside of your Major and Minor areas of study		18
12 credit hours of open electives <sup>2</sup>		12

Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

<b>Hours</b>	<b>60</b>
<b>Total Hours</b>	<b>90</b>

#### Plan of Study Grid

<sup>1</sup> 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 1500 (B) or MATH 1510 (B) may be taken in place of MATH 1230;
- MATH 1210 (B) or MATH 1300 (C+) or ~~MATH 1310~~ may be taken in place of MATH 1220;
- MATH 1700 (B) or MATH 1710 (B) may be in place of MATH 1232;
- MATH 1690 (C+) in place of MATH 1230 and 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.

<sup>2</sup> MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, and MATH 1090 may not be used for credit in this program.

#### Notes:

- For entry to either Major 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.

## Mathematics, B.A. Single Advanced Major

### Degree Requirements

<b>Year 1</b>		<b>Hours</b>
MATH 1220	Linear Algebra 1 <sup>1</sup>	3
MATH 1230	Differential Calculus <sup>1</sup>	3
MATH 1232	Integral Calculus <sup>1</sup>	3
MATH 1240	Elementary Discrete Mathematics <sup>1</sup>	3
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
12 credit hours from outside of your Major and Minor areas of study		12
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
MATH 2080	Introduction to Analysis	3
MATH 2090	Linear Algebra 2	3
MATH 2150	Multivariable Calculus	3
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
15 credit hours from outside of your Major and Minor areas of study		15
<b>Hours</b>		<b>30</b>
<b>Years 3-4</b>		
MATH 2020	Algebra 1	3
MATH 2180	Real Analysis 1	3
MATH 3470	Real Analysis 2	3
MATH 2160	Numerical Analysis 1	3
or MATH 3440 or Ordinary Differential Equations		
15 credit hours from the following of which at least 3 credit hours must be at the 3000 or 4000 level:		15

MATH 2030	Combinatorics 1	
MATH 2040	Curves and Surfaces	
MATH 2070	Graph Theory 1	
MATH 2160	Numerical Analysis 1	
MATH 2170	Number Theory 1	
Any 3000 or 4000 level Mathematics course		
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
15 credit hours from outside of your Major and Minor areas of study		15
12 credit hours of open electives <sup>2</sup>		12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Hours</b>		<b>60</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> 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 1500 (B) or MATH 1510 (B) may be taken in place of MATH 1230;
- MATH 1210 (B) or MATH 1300 (C+) or ~~MATH 1310~~ may be taken in place of MATH 1220;
- MATH 1700 (B) or MATH 1710 (B) may be in place of MATH 1232;
- MATH 1690 (C+) in place of MATH 1230 and 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.

<sup>2</sup> MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, and MATH 1090 may not be used for credit in this program.

**Notes:**

- For entry to either Major 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.



## Mathematics Minor

### Degree Requirements

Years 1-3	Hours
MATH 1220 Linear Algebra 1 <sup>1</sup>	3
MATH 1230 Differential Calculus <sup>1</sup>	3
MATH 1232 Integral Calculus <sup>1</sup>	3
9 credit hours from the following:	9
MATH 1240 Elementary Discrete Mathematics <sup>1</sup>	
Any 2000 and/or 3000 level Mathematics courses	
<b>Hours</b>	<b>18</b>
<b>Total Hours</b>	<b>18</b>

### Plan of Study Grid

<sup>1</sup> 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 1500 (B) or MATH 1510 (B) may be taken in place of MATH 1230;
- MATH 1210 (B) or MATH 1300 (C+) or ~~MATH 1310~~ may be taken in place of MATH 1220;
- MATH 1700 (B) or MATH 1710 (B) may be in place of MATH 1232;
- MATH 1690 (C+) in place of MATH 1230 and 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.

### Notes:

- 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.

Program modification:

A modification to the **Bachelor of Arts Science Requirement** is outlined on the next 2 pages.

## Bachelor of Arts Science Requirement

- The Faculty of Arts proposes the addition of FA 1020 Mathematics in Art to the list of courses that can be used by Faculty of Arts students to satisfy the BA Science requirement.

### Added Material

### ~~Deleted Material~~

## Sciences

- 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

Any course offered by the Faculty of Science with the exception of the former BIOL 1110.

## Faculty of Agricultural and Food Sciences

Course	Title	Hours
AGRI 1600	Introduction to Agrifood Systems	3
ENTM 1000	World of Bugs	3
ENTM 2050	Introductory Entomology	3
PLNT 1000	Urban Agriculture	3
PLNT 2500	Crop Production	3
SOIL 3060	Introduction to Agrometeorology	3
SOIL 3520	Pesticides: Environment, Economics and Ethics	3
SOIL 3600	Soils and Landscapes in Our Environment	3

## School of Art

<u>Course</u>	<u>Title</u>	<u>Hours</u>
<u>FA 1020</u>	<u>Mathematics in Art</u>	<u>3</u>

## Clayton H. Riddell Faculty of Environment, Earth, and Resources

Course	Title	Hours
ENVR 1000	Environmental Science 1 - Concepts	3
ENVR 2000	Environmental Science 2 - Issues	3
GEOG 1290	Introduction to Physical Geography	3
GEOG 2200	Introduction to Thematic Cartography (TS)	3
GEOG 2272	Natural Hazards (PS)	3
GEOG 2520	Geography of Natural Resources (HS)	3
GEOG 2540	Weather and Climate (PS)	3
GEOG 2541	Météorologie et climatologie (PS)	3
GEOG 2550	Geomorphology (PS)	3
GEOG 2700	Introduction to Arctic System Science	3
GEOG 3390	Introduction to Climate Change and Its Causes (PS)	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
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
GEOL 2350	Canada Rocks: The Geology of Canada	3
GEOL 2390	Environmental Geology	3
GEOL 2440	Structural Geology 1	3
GEOL 2500	Introduction to Mineralogy	3
GEOL 2570	Energy and Mineral Resources	3
GEOL 3310	Paleontology	3

### **Price Faculty of Engineering**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
ENG 1440	Introduction to Statics	3
ENG 1450	Introduction to Electrical and Computer Engineering	3
ENG 1460	Introduction to Thermal Sciences	3

For course titles and descriptions see the relevant faculty entries in this *Calendar*.

Program modification:

A clarification of the **Bachelor of Arts (Double Honours) degree requirements** is outlined on the next 2 pages.



University  
of Manitoba

Faculty of Arts

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**DATE:** May 20, 2021  
**TO:** Greg Smith, Chair, Senate Committee on Course and Curriculum Changes  
**FROM:** Jeff Taylor, Dean, Faculty of Arts  
**SUBJECT:** *Clarification on Bachelor of Arts Double Honours Degree Requirements*

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For the 2021-22 Undergraduate calendar the University of Manitoba procured a new software package to present course and program information. The new software, called CourseLeaf, allows for a substantially different, easy to read layout of program and degree requirements.

With a shift to new software, the Faculty of Arts made the decision to move from presenting program requirements in a very brief, minimalistic format to a layout where all of the credit hours required for degree completion are clearly displayed in each of the program progression tables. The new layout and philosophy is a departure from the way in which degree programs in the Faculty of Arts have traditionally been displayed in University calendars.

The move to a more descriptive way of displaying the Double Honours degree requirements revealed an anomaly between the way that the Double Honours degree had been displayed, and the requirements of the program. In order to track this perceived adjustment to the requirements it has been recommended that the Faculty of Arts provide Senate with a statement of clarification in regard to the breakdown of the Bachelor of Arts Double Honours degree requirements.

There are 15 units/departments in the Faculty of Arts who offer a Double Honours program. All but two of these units require students to complete 42 field specific credit hours. In Economics and Sociology, students are required to complete 45 field specific credit hours. These required (field specific courses) have always been listed in each unit's section of the calendar.

Typically, Double Honours students complete 6 credit hours from each of the two Honours fields in year one and then 36 credit hours from each of the two fields over years 2, 3, and 4 for a total of 84 field specific credit hours (42 credit hours from each Honours field). In addition to these 84 credit hours, students complete 6 credit hours of ancillary course work (i.e., courses from outside of the two Honours fields) and 30 credit hours of elective credit.

For students who select either Economics or Sociology as one of the Double Honours fields, those students would require 87 credit hours of field specific requirements, 6 credit hours of ancillary course work and 27 credit hours elective credit.

In the rare scenario where a student might select both Economics and Sociology as their Double Honours fields, that student would be required to complete 90 credit hours of field specific requirements, 6 credit hours of ancillary course work, and 24 credit hours of elective credit.

The previous tabular layout of the BA Double Honours degree requirements noted that in years 2, 3, and 4 of the Double Honours programs, 36 credit hours in the “Second Honours field” were required, and only silently assumed that the student would also have completed 6 credit hours from the Second Honours field in year 1.

Going back to the 1970s, even though each unit’s calendar chart may not have listed all of the 42-45 credit hours required by second Honours field selected by a student (omitting virtually all year 1 requirements, while referring students to the other unit’s section of the calendar for more detailed information), the Faculty of Arts has required students to complete all of the Double Honours field specific courses as listed in each unit’s section of the calendar. More recently (2015), the Faculty of Arts made a change to their Double Honours programs requiring all students in these programs to complete a minimum of 120 credit hours (was previously 108 credit hours and the open elective credit hours were increased to bring Double Honours programs in line with all 4 year Arts degrees = 120 credit hours). The 120 required credit hours required in BA Double Honours programs can be broken down in the following manner:

- 42 credit hours from Honours field #1\*
- Plus 42 credit hours from Honours field #2\*
- Plus 6 credit hours of Ancillary options
- Plus 30 credit hours of free options
- A total of 120 credit hours

(\* As noted above, if students select either Economics and/or Sociology as one or both of their Honours fields, the field specific course requirements would be 45 credit hours in those areas.)

We are very pleased to now have the complete requirements of all of our Double Honours programs listed in each of the Double Honours charts listed the latest version of the undergraduate calendar (2021-22).

While completing these 120 credit hours for the Double Honours program, students also need to ensure the following Honours requirements are met:

#### **Four Faculty Requirements for Graduating with a B.A. Honours Degree**

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 are found under each department.
2. In order to graduate, a student in the B.A. Honours Degree program must satisfy the University of Manitoba residency requirements and attain a minimum degree grade point average of 3.0.
3. Included among the courses presented for graduation there must be at least six credit hours completed in each of five different subject fields.
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, at least six credit hours from the list of courses that satisfy the Bachelor of Arts Science requirement, and at least three credit hours from the list of courses that satisfy the Indigenous Content requirement.

Program modification:

Modifications to the **Bachelor of Arts Indigenous Content Requirement** are outlined on the next page.



## Indigenous Content Requirement

- Changes to the list of courses that satisfy the Bachelor of Arts Indigenous Content requirement

Added Material

~~Deleted Material~~

## Indigenous Content Requirement

- Students may complete any of the courses listed below in order to satisfy the Indigenous Content Requirement:

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>AGRI 2300</u>	<u>Indigenous Issues in Food Systems</u>	<u>3</u>
<u>INDG NATV 1200</u>	Indigenous Peoples in Canada	6
<u>INDG NATV 1220</u>	Indigenous Peoples in Canada, Part 1	3
<u>INDG NATV 1240</u>	Indigenous Peoples in Canada, Part 2	3
<u>INDG NATV 2012</u>	Indigenous History in Canada	6
<u>INDG NATV 2020</u>	The Métis in Canada	3
<u>INDG NATV 2080</u>	Inuit Society and Culture	3
HIST 2010	Indigenous History in Canada (C)	6
HIST 2020	The Métis in Canada (C)	3
HIST 4120	History of Aboriginal Rights (C)	6
POLS 2802	Introduction to Indigenous Politics	3
POLS 3870	Politics of Indigenous-Settler Relations	3
<u>THTR 2200</u>	<u>Canadian Indigenous Theatre</u>	<u>3</u>
SOC 3762	Law, Justice, and Indigenous Peoples	3
WOMN 2630	Indigenous Feminisms	3

## Anthropology

### Introductions:

ANTH 4080 Museums, Memory, and Witnessing 3 cr +3.0

The course brings scholarship, contemporary art, exhibitions, activism, and policy into creative and critical conversation on the state and idea of museums today. Discussing key issues in museology – such as collections and collecting, conservation, representation, repatriation, and restitution – we explore the museum as witness. Particularly examining how museums are entangled with violence, we attend to memory as our approach for delving into both museums' histories and their imagined futures. Includes visiting museums. Prerequisite: written consent of instructor.

ANTH 4470 Scientific Methods and Applications in Archaeology and Biological Anthropology 3 cr +3.0

In this course, a range of scientific methods that can be applied to answer questions in archaeology and biological anthropology will be considered. These include microscopy, 3-D and virtual technologies, ancient DNA, and elemental analyses. Students will learn how many of the core techniques are transferable across fields and will learn the strengths and limitations of the different techniques. The class will be formatted as a seminar class, combined with practical and laboratory-based exercises. Field trips to facilities across the University will be scheduled in class time over the course of the term. May not be held with ANTH 4860 when titled "Advanced Practicum in Tools, Techniques & Interpretation for Biological Anthropology and Archaeology." Prerequisite: one of ANTH 2100, ANTH 2101, ANTH 2860, ANTH 2861, ANTH 2890, or written consent of instructor.

### **NET CHANGE IN CREDIT HOURS: +6.0**

### Program modifications:

Modifications to the footnotes applicable to the following programs are outlined below:

- **Bachelor of Arts (General Major) in Anthropology**
- **Bachelor of Arts (Single Advanced Major) in Anthropology**
- **Bachelor of Arts (Double Advanced Major) in Anthropology**
- **Bachelor of Arts (Single Honours) in Anthropology**
- **Minor (Concentration) in Anthropology**

### Added Material

### ~~Deleted Material~~

<sup>1</sup> ANTH 2000 is recommended for students taking a Minor because the course is fundamental to many subsequent Anthropology courses.

<sup>2</sup> ANTH 2370 is recommended. Students may not use ANTH 2430 toward the completion of the Anthropology course requirements.

<sup>3</sup> Courses **INDG NATV 2070** and **INDG NATV 2080** offered by the Department of Indigenous Native Studies may be used to satisfy this requirement in the General Major, Single Advanced Major, Double Advanced Major, Single Honours and Minor programs

## Canadian Studies

### Deletion:

CDN 1130 Introduction to Canadian Studies 6 cr - 6.0

### Modification:

CDN 1000 Introduction to Canada 3 cr 0.0  
A multidisciplinary introduction to the main political, economic, social, cultural and geographic features that have shaped Canada's past and current realities. May not be held with the former CDN 1130.

**NET CHANGE IN CREDIT HOURS: - 6.0**

### Program modifications:

Modifications to the following programs are outlined on the next 9 pages:

- **Bachelor of Arts (General Major) in Canadian Studies**
- **Bachelor of Arts (Single Honours) in Canadian Studies**
- **Bachelor of Arts (Double Honours) in Canadian Studies**
- **Minor (Concentration) in Canadian Studies**

## Canadian Studies – Program Modification

- The Canadian Studies program proposes modifications to its List A. These modifications impact the Single Honours, Double Honours, General, and Minor (Concentration) programs.

Added Material

Deleted Material

## List of Approved Courses in Canadian Studies

Courses designated (USB) are offered in French at Université de Saint-Boniface.

### FACULTY OF ARTS

Course	Title	Hours
<b>Canadian Studies</b>		
<u>CDN 1000</u>	<u>Introduction to Canada</u>	<u>3</u>
<del>CDN 1130</del>	<del>Introduction to Canadian Studies</del>	<del>6</del>
CDN 3730	Canadian Identity: An Interdisciplinary Approach	3
CDN 4410	Seminar in Canadian Studies	6
<b>Anthropology</b>		
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

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Economics</b>		
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	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
<b>English, Theatre, Film &amp; Media</b>		
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
<b>Français (USB)</b>		
FRAN 2313	La littérature du Canada français et du Québec, des origines à 1945 (USB)	3
FRAN 2323	La littérature du Canada français et du Québec, de 1945 à nos jours (USB)	3
FRAN 2333	Héritage folklorique et tradition orale au Canada français (USB)	3
FRAN 2343	Les influences de la littérature orale au Québec et au Canada français (USB)	3
FRAN 3313	La littérature québécoise avant la Révolution tranquille (1945-1960) (USB)	3
FRAN 3343	Théories postcoloniales (USB)	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
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	Littérature de l'Ouest : poésie, nouvelles (USB)	3
FRAN 3861	Littérature de l'Ouest : roman (USB)	3
<b>French, Spanish and Italian</b>		
FREN 2700	Poésie et théâtre canadiens-français (B)	3
FREN 3140	Roman canadien-français (B)	3
FREN 3850	Civilisation canadienne-française (A, B, C)	3
<b>History</b>		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3
HIST 1400	History of the Canadian Nation since 1867 (C)	3
HIST 1401	Histoire du Canada, des origines à 1800 (C) (USB)	3
HIST 1403	Histoire du Canada, de 1800 à aujourd'hui (C) (USB)	3
HIST 1440	History of Canada (C)	6
<del>HIST 1441</del>	<del>Course no longer offered (USB)</del>	<del>6</del>
<del>HIST 2191</del>	<del>Course no longer offered (USB)</del>	<del>6</del>
HIST/LABR 2200	Labour History: Canada and Beyond (C)	3
HIST 2010	Indigenous History in Canada (C)	6
HIST 2020	The Métis in Canada (C)	3
HIST 2282	Inventing Canada (C)	3
HIST 2283	Histoire des francophones de l'Ouest canadien (C) (USB)	3
HIST 2286	Modern Canada (C)	3
HIST 2288	History of Social Movements in Canada (C)	3
<del>HIST 2971</del>	<del>Course no longer offered</del>	<del>6</del>

Course	Title	Hours
HIST 3031	Histoire de la francophonie canadienne minoritaire (C) (USB)	3
HIST 3052	Canada since the 1960s (C)	3
HIST 3054	Canada and the United States (C)	3
HIST 3097	Histoire du Manitoba (C) (USB)	3
HIST/LABR 3214	Canada's Left: Rebellion and Repression (C)	3
HIST 3250	Canada and the World, 1867 to the Present (C)	6
HIST 3272	The Métis Nation: The Modern Era	3
HIST 3442	<del>Race, Ethnicity, Immigration, and Nation</del> <u>Race Colonialism and Migration</u> in Canadian History (C)	3
<del>HIST 3572</del>	<del>The History of Women, Gender, and Sexuality in Canada (C)</del>	<del>6</del>
<u>HIST 3576</u>	<u>History of Women, Gender, and Sexuality in Canada</u>	<u>3</u>
<del>HIST 3724</del>	<del>Course no longer offered (USB)</del>	<del>6</del>
HIST 3730	A History of Western Canada (C)	6
HIST 3780	Studies in Canadian History 1 (C)	3
<del>HIST 3784</del>	<del>Course no longer offered (USB)</del>	<del>3</del>
<del>HIST 3794</del>	<del>Course no longer offered (USB)</del>	<del>3</del>
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
<b>Icelandic</b>		
ICEL 2230	<del>Contemporary</del> Icelandic-Canadian Literature	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
ICEL 4440	The Icelanders in Canada	3
<b>Labour Studies</b>		
LABR/HIST 2200	Labour History: Canada and Beyond (C)	3
LABR/HIST 3214	Canada's Left: Rebellion and Repression (C)	3
LABR 3510	Industrial Relations	6
<b>Linguistics</b>		
LING 1360	Languages of Canada	3
<b><u>Indigenous Native Studies</u></b>		
<u>INDG NATV</u> 1200	Indigenous Peoples in Canada	6
<u>INDG NATV</u> 1220	Indigenous Peoples in Canada, Part 1	3
<u>INDG NATV</u> 1240	Indigenous Peoples in Canada, Part 2	3
<u>INDG NATV</u> 1250	Introductory Cree 1	3
<u>INDG NATV</u> 1260	Introductory Cree 2	3
<u>INDG NATV</u> 1270	Introductory Anishinaabemowin (Ojibwe) 1	3
<u>INDG NATV</u> 1280	Introductory Anishinaabemowin (Ojibwe) 2	3
<u>INDG NATV</u> 1300	Selected Topics in Introductory Indigenous Language	3
<u>INDG NATV</u> 2012	Indigenous History in Canada	6
<u>INDG NATV</u> 2020	The Métis in Canada	3
<u>INDG NATV</u> 2040	The Dakota, Lakota, and Nakota Nations	3
<u>INDG NATV</u> 2060	Eastern Woodlands Encounters Columbus to Confederation	3
<u>INDG NATV</u> 2070	Cree, Innu, and Dene Nations	3
<u>INDG NATV</u> 2080	Inuit Society and Culture	3
<u>INDG NATV</u> 2220	Indigenous Societies and the Political Process	3
<u>NATV</u> 2250	<u>Intermediate Cree</u>	6
<u>INDG</u> 2252	<u>Intermediate Cree 1</u>	<u>3</u>



<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>INDG 2254</u>	<u>Intermediate Cree 2</u>	<u>3</u>
<u>INDG NATV 2272</u>	Intermediate Anishinaabemowin (Ojibwe) 1	3
<u>INDG NATV 2274</u>	Intermediate Anishinaabemowin (Ojibwe) 2	3
<u>INDG NATV 2300</u>	Cree Literature	3
<u>INDG NATV 2410</u>	Indigenous Literature in Canada	3
<u>INDG NATV 2420</u>	Inuit Literature in Translation	3
<u>INDG NATV 2450</u>	Images of the "Indian" in North American Society	3
<u>INDG NATV 3000</u>	Selected Topics	3
<del>NATV 3222</del>	<del>Structure of Anishinaabemowin (Ojibwe) Language</del>	<del>3</del>
<del>NATV 3224</del>	<del>Structure of the Cree Language</del>	<del>3</del>
<u>INDG NATV 3240</u>	Indigenous Medicine and Health	3
<u>INDG NATV 3270</u>	The Métis Nation: The Modern Era	3
<u>INDG NATV 3280</u>	Indigenous Peoples and the Canadian Justice System	3
<u>INDG NATV 3300</u>	Indigenous Language Planning and Development	3
<u>INDG NATV 3310</u>	Canadian Law and Indigenous Peoples	3
<u>INDG NATV 3370</u>	Political Development in the North	3
<u>INDG NATV 3380</u>	Gender and Indigenous Societies	3
<u>INDG NATV 4200</u>	First Nations' Government	3
<u>INDG NATV 4210</u>	Seminar in Contemporary and Historical Métis Issues	3
<u>INDG NATV 4220</u>	Environment, Economy and Aboriginal Peoples	3
<u>INDG NATV 4230</u>	Traditional Knowledge and Indigenous Studies Research	3
<u>INDG NATV 4240</u>	Arctic Lifestyles	3
<u>INDG NATV 4250</u>	Indigenous Identities	3
<u>INDG NATV 4280</u>	Missionaries, Colonialism, and Indigenous People	3

**Political Studies**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<del>POLS 1501</del>	<del>Course no longer offered (USB)</del>	<del>3</del>
POLS 1502	Introduction to Political Studies	3
POLS 1506	Survey of Political Studies	3
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 2702	Introduction to Canadian Politics	3
POLS 2802	Introduction to Indigenous Politics	3
POLS 3100	Gender and Politics in Canada	3
POLS 3171	La Charte canadienne des droits et libertés	3
POLS 3470	Canadian Public Management	3
POLS 3512	Canadian Foreign and Defence Policy 1	3
POLS 3514	Canadian Foreign and Defence Policy 2	3
POLS 3563	Le Canada dans le système mondial (USB)	3
POLS 3670	Canadian Political Parties	3
POLS 3730	Canadian Constitutional Politics	3
POLS 3740	Provincial Politics	3
POLS 3750	City Politics	3
POLS 3860	Canadian Federalism	3
POLS 3872	Indigenous Governance	3
POLS 3940	Canadian Public Policy	3
POLS 4070	Advanced Seminar: Canadian Government	3
POLS 4080	Advanced Seminar: Canadian Democracy	3
POLS 4140	Canadian Political Ideas	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
POLS 4190	Manitoba Politics and Government	3
POLS 4560	Canada and the Arctic	3
POLS 4630	Indigenous Political Movements and Activism	3
POLS 4640	Comparative Indigenous Politics	3
<b>Religion</b>		
RLGN 2590	Religion and Social Issues	3
RLGN 2591	La religion et les problèmes sociaux (C) (USB)	3
<b>Slavic Studies</b>		
UKRN 2410	Ukrainian Canadian Cultural Experience	3
<b>Sociology and Criminology</b>		
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
SOC 3762	Law, Justice, and Indigenous Peoples	3
<b>Ukrainian Canadian Heritage Studies</b>		
UCHS 3100	The Ukrainian Arts in Canada	3

## **SCHOOL OF ART**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Fine Art / Art History</b>		
FAAH 3260	Canadian Art and Architecture to World War 2	3
FAAH 3270	Canadian Art Since World War 2	3
FAAH 3430	Inuit Art	3
<b>CLAYTON H. RIDDELL FACULTY OF ENVIRONMENT, EARTH, AND RESOURCES</b>		
<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Geography</b>		
GEOG 2213	Géographies autochtones et relations interculturelles (USB)	3
GEOG 2570	Geography of Canada (A)	3
GEOG 2900	Geography of Canadian Prairie Landscapes (A)	3
GEOG 3431	Géographie de Canada (A) (USB)	3
GEOG 3481	Particularités de la géographie du Canada (A) (USB)	3
GEOG 3831	L'espace francophone panaméricain (A, HS) (USB)	3
<b>Geological Sciences</b>		
GEOL 2350	Canada Rocks: The Geology of Canada	3

## Central and Eastern European Studies

Program modifications:

Modifications to the programs listed below are outlined on the next 3 pages.

- **Bachelor of Arts (General Major) in Central and Eastern European Studies**
- **Bachelor of Arts (Single Advanced Major) in Eastern European Studies**
- **Bachelor of Arts (Single Advanced Major) in Eastern European Studies, Co-operative Education Option**
- **Bachelor of Arts (Double Advanced Major) in Eastern European Studies**
- **Bachelor of Arts (Double Honours) in Eastern European Studies**
- **Minor (Concentration) in Eastern European Studies**

## Central and East European Studies

- Modification to the List of Approved Courses in Central and East European Studies used in the General Major, Single Advanced Major (Co-op), Double Advanced Major, Minor (Concentration), and Double Honours

### Added Material

### ~~Deleted Material~~

## List of Approved Courses in Central and East European Studies

Course	Title	Hours
<b>Faculty of Arts</b>		
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
<u>GRMN 2520</u>	<u>Spies: Stories of Secret Agents, Treason, and Surveillance</u>	<u>3</u>
<u>GRMN 2530</u>	<u>My Friend the Tree: Environment and Ecology in German Culture in English Translation</u>	<u>3</u>
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
<del>GRMN 3280</del>	<del>Sex, Gender and Cultural Politics in the German-Speaking World (B)</del>	<del>3</del>
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
<del>GRMN 3392</del>	<del>German Representations of War (B)</del>	<del>3</del>
GRMN 3530	Special Topics in Comparative German and Slavic Studies (C)	3
<u>HUNG 2100</u>	<u>Hungarian Culture and Language</u>	<u>3</u>
POL 1900	Love, Heroes and Patriotism in Contemporary Poland	3
POL 2600	Polish Culture until 1918	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
POL 2610	Polish Culture 1918 to the Present	3
POLS 3630	<u>Russian Politics, Government, and Society</u>	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
<u>RUSN 3630</u>	<u>Russian Politics, Government, and Society</u>	<u>3</u>
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 2600	Introduction to Ukraine (E)	3
HIST 2610	Making of Modern Ukraine (E)	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 (E)	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
Judaic Studies:		
JUD 3010	Topics in Jewish Studies (when its focus is on Central and Eastern European Studies)	3
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

<b>Course</b>	<b>Title</b>	<b>Hours</b>
RLGN 2530	Eastern Christianity in the Contemporary World	3
RLGN 3280	Hasidism	3
<b>School of Art</b>		
FAAH 3160	Topics in 20th Century Art (when its focus is on Central and Eastern European Studies)	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 European Studies)	3



## Economics

### Modifications:

ECON 2350 Community Economic Development 3 cr 0.0  
A study of the economic development problems of northern and Indigenous communities in Manitoba. Students may not hold credit for ECON 2350 and any of: INDG 3120 or the former NATV 3120 or the former NATV 4310.

ECON 4822 Economic Research and Communication 6 cr 0.0  
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. Registration is restricted to students who have formally declared an Advanced Major in Economics or Honours Economics. Prerequisites: [ECON 3040 (or the former ECON 3180)] and [ECON 3010 (or ECON 2461 or the former ECON 2460 or the former ECON 3700)] and [ECON 3020 (or ECON 2481 or the former ECON 2480 or the former ECON 3800)] and completion of 90 credit hours at the time of registration.

**NET CHANGE IN CREDIT HOURS: 0.0**

### Program modification:

Modifications to the **Bachelor of Arts (Joint Honours) in Economics and Mathematics** are outlined on the next 2 pages.

## Department of Economics

- The Department of Economics proposes a program modification to the Joint Bachelor of Arts Honours program in Economics and Mathematics.
- This proposal is in response to changes being made by the Department of Mathematics.

### Added Material

### ~~Deleted Material~~

## Economics-Mathematics, B.A. Joint Honours

### Degree Requirements

<b>Year 1</b>	<b>Hours</b>
Select one of the following pairs of Introductory Economics courses:	6
Both of:	
ECON 1010 Introduction to Microeconomic Principles & ECON 1020 and Introduction to Macroeconomic Principles	
or both of:	
ECON 1210 Introduction to Canadian Economic Issues and Policies & ECON 1220 and Introduction to Global and Environmental Economic Issues and Policies	
MATH 1220 Linear Algebra 1 <sup>1</sup>	3
MATH 1230 Differential Calculus <sup>1</sup>	3
MATH 1232 Integral Calculus <sup>1</sup>	3
MATH 1240 Elementary Discrete Mathematics <sup>1</sup>	3
STAT 1150 Introduction to Statistics and Computing <sup>1,2</sup>	3
COMP 1010 Introductory Computer Science 1 <sup>2</sup>	3
6 credit hours of electives, which should include the required "Written English" course <sup>3</sup>	6
<b>Hours</b>	<b>30</b>
<b>Year 2</b>	
ECON 2010 Microeconomic Theory 1	3
ECON 2020 Macroeconomic Theory 1	3
MATH 2020 Algebra 1	3
MATH 2080 Introduction to Analysis	3
MATH 2090 Linear Algebra 2	3
MATH 2150 Multivariable Calculus	3
MATH 2180 Real Analysis 1	3
9 credit hours of approved electives <sup>3</sup>	9
<b>Hours</b>	<b>30</b>
<b>Years 3-4</b>	
ECON 3010 Microeconomic Theory 2	3
ECON 3020 Macroeconomic Theory 2	3

ECON 3040	Introduction to Econometrics <sup>2</sup>	3
MATH 2030	Combinatorics 1	3
MATH 2160	Numerical Analysis 1	3
MATH 3320	Algebra 2	3
MATH 3340	Complex Analysis 1	3
MATH 3440	Ordinary Differential Equations	3
MATH 3470	Real Analysis 2	3
MATH 3472	Real Analysis 3	3
24 credit hours of approved Economics courses <sup>3,4</sup>		24
3 credit hours from:		3
MATH 3420	Numerical Analysis 2	
MATH 3460	Partial Differential Equations	
MATH 3610	Introduction to Mathematical Modelling	
MATH 4370	Linear Algebra and Matrix Analysis	
or any Mathematics course at the 4000 level		
3 credit hours of Mathematics courses at the 3000 or 4000 level		3
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Hours</b>		<b>60</b>
<b>Total Hours</b>		<b>120</b>

- <sup>1</sup> 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 1210 (A), 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.
- <sup>2</sup> 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.
- <sup>3</sup> Students may not use the following courses for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, and MATH 1090
- <sup>4</sup> 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](#).

## English, Theatre, Film & Media

### Deletions:

ENGL 3020 Milton 6 cr	-6.0
ENGL 3540 Special Topics in Creative Writing 2 6 cr	-6.0
ENGL 3660 Special Studies 6 cr	-6.0

### Introductions:

ENGL 2910 Comics 3 cr	+3.0
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An introduction to the analysis of comics and other graphic narrative forms. May not be held with ENGL 3800 when titled "Panels and Frame." Prerequisite: [one of ENGL 1200, ENGL 1201, ENGL 1300, or ENGL 1301] or [ENGL 1400 (the former ENGL 1310) and ENGL 1340].

ENGL 2920 Genre: Science Fiction and Fantasy 3 cr	+3.0
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This course explores one or more genres that fall under the label of science fiction and fantasy. This may include science fiction, fantasy, speculative fiction, folk and fairy tales, horror, and/or the new weird. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Consult the Department of English, Theatre, Film & Media website for detailed course descriptions. Prerequisite: [one of ENGL 1200, ENGL 1201, ENGL 1300, or ENGL 1301] or [ENGL 1400 (the former ENGL 1310) and ENGL 1340].

ENGL 3910 Special Topics in Comics 3 cr	+3.0
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This course focuses on a special topic in the study of comics and/or other graphic narrative forms. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Consult the Department of English, Theatre, Film & Media website for detailed course descriptions. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

ENGL 3920 Special Topics in Science Fiction and Fantasy 3 cr	+3.0
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This course focuses on a topic in science fiction, fantasy, speculative fiction, folk and fairy tales, horror, and/or the new weird. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Consult the Department of English, Theatre, Film & Media website for detailed course descriptions. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

ENGL 3940 Special Topics in Travel Writing 3 cr	+3.0
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This course focuses on the genre of travel writing within a particular geographical and/or historical context. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Consult the Department of English, Theatre, Film & Media website for detailed course descriptions. Prerequisite: a grade of "C" or better in six hours of English at the 2000 level.

THTR 2200 Canadian Indigenous Theatre 3 cr	+3.0
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This course offers an introduction to Indigenous theatre in the location now known as Canada. The plays to be studied will include work from several Indigenous nations. Class instruction will model respectful and culturally attentive engagement with Indigenous practices and worldviews. Consult the Department of English, Theatre, Film & Media website for more details. Prerequisite: [one of THTR 1220, ENGL 1200, ENGL 1201, ENGL 1300, or ENGL 1301] or [ENGL 1400 (the former ENGL 1310) and ENGL 1340].

**NET CHANGE IN CREDIT HOURS: 0.0**

Program modifications:

Modifications to the programs listed below are outlined on the next page.

- **Bachelor of Arts (General Major) in English**
- **Bachelor of Arts (Single Advanced Major) in English**
- **Bachelor of Arts (Double Advanced Major) in English**
- **Bachelor of Arts (Single Honours) in English**
- **Bachelor of Arts (Double Honours) in English**
- **Minor (Concentration) in English**

Department of English, Theatre, Film & Media

- ETFM proposes the modification of the Literature Prior to 1900 list used by students in the General Major, Singled Advanced Major, Double Advanced Major, Single Honours, Double Honours, and Minor (Concentration) programs.

Added Material

~~Deleted Material~~

## Literature Prior to 1900

Course	Title	Hours
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 2190	Special Topics <sup>1</sup>	3
<u>ENGL 2620</u>	<u>Introduction to Print Culture and Book History</u>	<u>3</u>
ENGL 3000	Chaucer	6
ENGL 3010	Shakespeare	6
<del>ENGL 3020</del>	<del>Milton</del>	<del>6</del>
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
ENGL 3190	Studies in Special Topics <sup>1</sup>	6
<u>ENGL 3620</u>	<u>Special Topics in Print Culture and Book History</u>	<u>3</u>
<del>ENGL 3660</del>	<del>Special Studies<sup>+</sup></del>	<del>6</del>
ENGL 3800	Special Studies <sup>1</sup>	3

Course List

<sup>1</sup> When the topic relates to Literature prior to 1900

## French, Spanish and Italian

### Introductions:

FREN 2800 Introduction aux littératures autochtones de langue française (B) 3 cr +3.0  
Ce cours propose d'aborder les principaux enjeux relatifs aux littératures autochtones de langue française au Canada. On se demandera de qui il est question lorsque l'on parle d'un(e) écrivain(e) autochtone; quels sont les critères de l'indigénéité, quelle importance pour le choix de la langue, l'engagement ou encore pour les thématiques dites amérindiennes? À partir de la production des années 1970 jusqu'à nos jours, il sera question d'interroger les œuvres à partir de leur contexte. May not be held with FREN 2640 when titled "Special Topics: Introduction aux littératures autochtones de langue française." Prerequisite: one of FREN 1190, FREN 1200 (C+), FREN 2620, or written consent of department head.

FREN 3170 Littératures du Canada francophone contemporain 3 cr +3.0  
Ce cours offrira un aperçu des grands enjeux des littératures de la francophonie canadienne à partir des années 1970. Il se concentrera sur une ou plusieurs grandes œuvres contemporaines, réunies soit autour d'un genre, soit autour d'un thème commun. Des liens pourront être établis avec d'autres domaines des arts : cinéma, chanson, peinture, bande-dessinée par exemple. 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.

### Modification:

FREN 4650 Études sur l'Ancien Régime (B) 3 cr 0.0  
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. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. Prerequisite: written consent of department head.

## **NET CHANGE IN CREDIT HOURS: +6.0**

## German and Slavic Studies

### Deletions:

GRMN 3280 Sex, Gender and Cultural Politics in the German-Speaking World (B) 3 cr -3.0  
GRMN 3392 German Representations of War (B) 3 cr -3.0  
GRMN 4610 Independent Work (B) 3 cr -3.0  
RUSN 3200 Advanced Russian 1 3 cr -3.0  
RUSN 3210 Advanced Russian 2 3 cr -3.0

### Introductions:

GRMN 2110 Discovering German Life and Culture (C) 3 cr +3.0  
Language of instruction: English. An introduction to German life and culture with an emphasis on experiential and reflective learning. The course will cover topics like popular music, film, memory culture, multiculturalism, environmentalism, food, and family structures in Germany. These topics will be addressed through the analysis of, among others, short texts, songs,

movies, and graphic novels. Involvement of the German-Canadian community in Manitoba and of presenters from German-speaking countries is an integral part of this course.

GRMN 2520 Spies: Stories of Secret Agents, Treason, and Surveillance (C) 3 cr +3.0  
Language of instruction: English. Discusses German stories of espionage in film, television series, historical novel, literary fiction, autobiography, and comic books. The course familiarizes students with spying in its cultural techniques and forms, its imaginary power, its gender patterns, and the complexities and ambiguities of concepts such as treason, performance, truth, good and evil. May not be held with GRMN 2500 when titled "Spies: Stories of Secret Agents, Treason, and Surveillance."

GRMN 2530 My Friend the Tree: Environment and Ecology in German Culture in English Translation (C) 3 cr +3.0  
Language of instruction: English. Discusses the representation of nature in German culture through the analysis of a broad variety of texts (novels, short stories, movies, television series etc.). The course familiarizes students with how the German-speaking world conceptualizes nature and climate change and introduces them to the field of Ecocriticism. May not be held with GRMN 2500 when titled "My Friend the Tree: Environment and Ecology in German Culture in English Translation."

RUSN 3100 Advanced Russian Grammar and Conversation 3 cr +3.0  
Advanced speaking, composition, translation, and reading through a study of selected literary and other texts. Development of overall communication skills. Students may not hold credit for both RUSN 3100 and the former RUSN 3200 or the former RUSN 3930. Prerequisite: RUSN 2810 or RUSN 2820 or written consent of department head.

RUSN 3110 Advanced Russian Through Film 3 cr +3.0  
Advanced composition, translation, reading, and speaking through a study of selected films. Development of overall communication skills. Students may not hold credit for both RUSN 3110 and any of: the former RUSN 3210, the former RUSN 3930, or the former RUSN 3940. Prerequisite: RUSN 2810 or RUSN 2820 or written consent of department head.

HUNG 2100 Hungarian Culture and Language 6 cr +6.0  
Taught in English. This course is an immersive study experience in Budapest and Szeged in Hungary. The program features an exploration of Hungarian culture, life and society in excursions, classes, and guest lectures, and some practical language training of introductory conversational Hungarian. Prerequisite: written consent of Department Head.

#### Modifications:

GRMN 3282 Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C) 3 cr 0.0  
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 the former 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 3390 German Representations of War (C) 3 cr 0.0  
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 the former 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.

RUSN 3220 Selected Topics in Russian 3 cr 0.0  
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. Students can earn multiple credits for this course only when the topic subtitle is different. Prerequisite: RUSN 2810 or RUSN 2820 or written consent of department head.

RUSN 3580 Russian Poetry 3 cr 0.0  
Language of instruction: Russian. A study of major Russian poetry from the 19th to 21st century, including works by Pushkin, Lermontov, Tiutchev, Fet, Blok, Mayakovsky, Akhmatova, Esenin, Evtushenko, Gandlevsky, etc. Prerequisite: RUSN 2810 or RUSN 2820 or written consent of department head.

**NET CHANGE IN CREDIT HOURS: +6.0**

Program modifications:

Modifications to the programs listed below are outlined on the next 4 pages:

- **Bachelor of Arts (Single Honours) in German**
- **Bachelor of Arts (Single Honours) in German, Co-operative Education Option**
- **Bachelor of Arts (Double Honours) in German**

German and Slavic Studies Program Modification

- The Department of German and Slavic Studies proposes a modification to the BA Single Honours (incl. Coop) and Double Honours program.

Added Material

Deleted Material

**German, B.A. Single Honours  
Degree Requirements (including Co-operative Option if selected)**

<b>Years 1-4</b>	<b>Hours</b>
36 credit hours of German (of which at least 24 credit hours must be German courses numbered at or above the 2000 level) to include:	36
GRMN 1120      Beginning German (A) <sup>1,2</sup>	
GRMN 2100      Intermediate German (A) <sup>1,2,3</sup>	
GRMN 2120      Introduction to German Culture from 1918 to the Present (C) or GRMN 2130      or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140      Exploring German Literature (B) or GRMN 2480      or Special Topics in German (B)	
GRMN 3200      Deutsche Sprachpraxis 1 (A) <sup>2,3</sup>	
GRMN 4600      Senior Seminar in German Studies (B) <sup>4</sup>	3
GRMN 4570      Honours Thesis in German Studies (B,C)	3
6 credit hours in German courses numbered at the 3000 or 4000 level	6
6 credit hours in German courses at the 4000 level	6
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	
24 credit hours of ancillary options <sup>5</sup>	24
42 credit hours of free options <sup>6</sup>	42
Refer to the information directly below this list for other important degree requirements that B.A. Honours students must satisfy for graduation.	
<b>Hours</b>	<b>120</b>
<b>Total Hours</b>	<b>120</b>

## CO-OPERATIVE EDUCATION OPTION

Years 3-4	Hours
If the Co-operative Education Option is selected, time to completion will be extended by 12 months and the following three, 1 credit hour work term courses will count toward the ancillary option credit required in this program:	
ARTS 3010Arts Co-operative Option 1	1
ARTS 3020Arts Co-operative Option 2	1
ARTS 3030Arts Co-operative Option 3	1
<b>Hours</b>	<b>3</b>
<b>Total Hours</b>	<b>3</b>

- <sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.
- <sup>2</sup> 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".
- <sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".
- <sup>4</sup> With written consent of department head, students may substitute GRMN 4600 with GRMN 4200.
- <sup>5</sup> 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).
- <sup>6</sup> Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including German courses).

### Notes:

- Honours courses: all 4000 level courses.

### 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

**German, B.A. Double Honours  
Degree Requirements**

<b>Years 1-4</b>	<b>Hours</b>
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: <sup>1</sup>	30
GRMN 1120      Beginning German (A) <sup>2</sup>	
GRMN 2100      Intermediate German (A) <sup>3</sup>	
GRMN 2120      Introduction to German Culture from 1918 to the Present (C) or GRMN 2130      or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140      Exploring German Literature (B) or GRMN 2480      or <u>Special Topics in German</u> (B)	
GRMN 3200      Deutsche Sprachpraxis 1 (A)	
3 credit hours in German numbered at the 3000 or 4000 level	3
3 credit hours in German numbered at the 4000 level	3
GRMN 4600      Senior Seminar in German Studies (B) <sup>4</sup>	3
GRMN 4570      Honours Thesis in German Studies (B,C)	3
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	
42 credit hours in second Honours field as described in that unit's section of the calendar	42
6 credit hours in ancillary options <sup>5</sup>	6
30 credit hours in free options <sup>6</sup>	30
Refer to the information directly below this list for other important degree requirements that B.A. Honours students must satisfy for graduation.	
<b>Hours</b>	<b>120</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.

<sup>2</sup> 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".

- <sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of “C”.
- <sup>4</sup> With written consent of department head, students may substitute GRMN 4600 with GRMN 4200.
- <sup>5</sup> 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).
- <sup>6</sup> Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including German courses).

**Notes:**

- Honours courses: all 4000 level courses.
- If the second Honours field chosen is either Economics or Sociology, students need to be aware that these two departments require an additional 3 credit hours of required course work in their Double Honours 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

Modifications to the **Bachelor of Arts (General Major) in Russian** are outlined on the next 2 pages.

Russian

- The Department of German and Slavic Studies proposes a modification to the BA General Degree in Russian.

Added Material

~~Deleted Material~~

**Russian, B.A. General Degree Requirements**

<b>Years 1-3</b>	<b>Hours</b>
30 credit hours of Russian to include:	30
RUSN 1300 Introductory Russian <sup>1</sup> or RUSN 1330 or Introductory Russian 2	
RUSN 2810 Intermediate Russian <sup>2</sup> or RUSN 2820 or Intermediate Russian 2	
6 credit hours from: <sup>3</sup>	
<del>RUSN 3200 Advanced Russian 1</del>	
<del>RUSN 3210 Advanced Russian 2</del>	
<u>RUSN 3100 Advanced Russian Grammar and Conversation</u>	
<u>RUSN 3110 Advanced Russian Through Film</u>	
RUSN 3220 Selected Topics in Russian	
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	
18 credit hours from your Minor area of study as described in that unit's section of the calendar	18
30 credit hours from outside of your Major and Minor areas of study	30
12 credit hours of open electives	12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Hours</b>	<b>90</b>

**Total Hours****90**

- <sup>1</sup> 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.
- <sup>2</sup> 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.
- <sup>3</sup> With written consent from the department head, other 3000 level Russian language courses may be approved for credit.

**List A: Courses Acceptable for Russian Credit**

With written consent from the department head, courses offered by other departments may be approved for credit.

**FACULTY OF ARTS**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>History</b>		
<u>HIST 2660</u>	History of the Soviet Union (E)	3
<u>HIST 2840</u>	A History of Russia to 1917 (E)	3



## Global Political Economy

Program modifications:

Modifications to the programs listed below are outlined on the next 7 pages:

- **Bachelor of Arts (General Major) in Global Political Economy**
- **Bachelor of Arts (Single Advanced Major) in Global Political Economy**

Global Political Economy – Program Modification to the BA General and the BA Single Advanced Major

- Add SOC 3810 (Sociological Perspectives on Gender and Sexuality) and SOC 3350 (Feminism and Sociological Theory) as alternatives to the current GPE degree requirement of ANTH 3320 (Women in Cross-Cultural Perspective). Add all three courses to GPE's "List A."

Added Material

~~Deleted Material~~

**Global Political Economy, B.A. General**

**Degree Requirements<sup>1</sup>**

<b>Year 1</b>		<b>Hours</b>
6 credit hours from the following:		6
HIST 1370	Modern World History: 1500-1800 (M)	
HIST 1380	Modern World History: 1800-Present (M)	
HIST 2730	Modern World History, 1914-1945: The 30 Years' Crisis (M)	
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	
Select one of the following sets of Introductory Economics courses:		6
Both of:		
ECON 1010 & ECON 1020	Introduction to Microeconomic Principles and Introduction to Macroeconomic Principles	
or both of:		
ECON 1210 & ECON 1220	Introduction to Canadian Economic Issues and Policies and Introduction to Global and Environmental Economic Issues and Policies	
GPE/GEOG 1700	Social Justice in the 21st Century: Global Political Economy and Environmental Change	3
15 credit hours of open electives <sup>1,2,3</sup>		15
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
ANTH 2000	Culture, Society, and Power <sup>2</sup>	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
GPE 2700	Perspectives on Global Political Economy	3
Select one of the following:		6
Both of:		
SOC 2292 & SOC 2294	Understanding Social Research and Understanding Social Statistics <sup>3</sup>	
or both of:		
ANTH 3930 & STAT 1000	Ethnographic Research Methods and Basic Statistical Analysis 1	
12 credit hours of open electives <sup>1,4</sup>		12
<b>Hours</b>		<b>30</b>

### Year 3

<u>Select one of the following:</u>		<u>3</u>
ANTH 3320	Women in Cross-Cultural Perspective <sup>2</sup>	3
<u>SOC 3350</u>	<u>Feminism and Sociological Theory<sup>3</sup></u>	
<u>SOC 3810</u>	<u>Sociological Perspectives on Gender and Sexuality<sup>3</sup></u>	
GPE 3700	A Survey of Global Political Economy	3
POLS 3250	International Political Economy <sup>4</sup>	3
or ANTH 3750	or Anthropological Perspectives on Globalization and the World-System	
POLS 3270	Theories of the Capitalist World Order <sup>4</sup>	3
Select one of the following: <sup>3</sup>		3
SOC 3380	Power, Politics and the Welfare State	
SOC 3838	Ecology and Society	
SOC 3840	Community and Social Reconstruction	
SOC 3890	Power and Inequality in Comparative Perspective	
15 credit hours of open electives <sup>1</sup>		15

Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

<b>Hours</b>	<b>30</b>
<b>Total Hours</b>	<b>90</b>

<sup>1</sup> 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 2670, HIST 2680, HIST 2730, HIST 2732, HIST 2734, POLS 2502, POLS 2602, POLS 3250, POLS 3810, SOC 3380, SOC 3838, SOC 3840, SOC 3890.

<sup>2</sup> 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 from the Anthropology Department Head prior to registration.

<sup>3</sup> Students are advised to take SOC 1000 as an elective in Year 1 as it is the prerequisite for upper level Sociology courses. Otherwise, students will require written consent from the Sociology and Criminology Department Head prior to registration.

<sup>4</sup> Students are advised to take POLS 2502 as an elective in Year 2 as it is the prerequisite for upper level Political Studies courses. Otherwise, students will require written consent from the Political Studies Department Head prior to registration.

## Global Political Economy, B.A. Single Advanced Major

### Single Advanced Major

<b>Year 1</b>		<b>Hours</b>
6 credit hours from the following:		6
HIST 1370	Modern World History: 1500-1800 (M)	
HIST 1380	Modern World History: 1800-Present (M)	
HIST 2730	Modern World History, 1914-1945: The 30 Years' Crisis (M)	
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	
Select one of the following pairs of Introductory Economics courses:		6
ECON 1010 & ECON 1020	Introduction to Microeconomic Principles and Introduction to Macroeconomic Principles	
or both of:		
ECON 1210 & ECON 1220	Introduction to Canadian Economic Issues and Policies and Introduction to Global and Environmental Economic Issues and Policies	
GPE/GEOG 1700	Social Justice in the 21st Century: Global Political Economy and Environmental Change	3
POLS 2602	Introduction to Comparative Politics	3
12 credit hours of open electives <sup>1,2</sup>		12
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
ANTH 2000	Culture, Society, and Power <sup>1</sup>	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
GPE 2700	Perspectives on Global Political Economy	3
Select one of the following pairs of courses: <sup>2</sup>		6
Both of:		
SOC 2292 & SOC 2294	Understanding Social Research and Understanding Social Statistics	

or both of:

ANTH 3930 & STAT 1000	Ethnographic Research Methods and Basic Statistical Analysis 1	
3 credit hours from List A		3
9 credit hours of open electives <sup>1,2,3</sup>		9
<b>Hours</b>		<b>30</b>

### Year 3

<u>Three credit hours selected from:</u>		<u>3</u>
ANTH 3320	Women in Cross-Cultural Perspective <sup>1</sup>	3
<u>SOC 3350</u>	<u>Feminism and Sociological Theory<sup>2</sup></u>	
<u>SOC 3810</u>	<u>Sociological Perspectives on Gender and Sexuality<sup>2</sup></u>	
GPE 3700	A Survey of Global Political Economy	3
POLS 3250	International Political Economy <sup>3</sup>	3
or ANTH 3750	or Anthropological Perspectives on Globalization and the World-System	
POLS 3270	Theories of the Capitalist World Order <sup>3</sup>	3
Select one of the following: <sup>2</sup>		3
SOC 3380	Power, Politics and the Welfare State	
SOC 3838	Ecology and Society	
SOC 3840	Community and Social Reconstruction	
SOC 3890	Power and Inequality in Comparative Perspective	

3 credit hours from List A		3
12 credit hours of open electives		12
<b>Hours</b>		<b>30</b>

### Year 4

GPE 4700	Studies in Global Political Economy	6
3 credit hours from List A		3
21 credit hours of open electives		21

Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

<b>Hours</b>	<b>30</b>
<b>Total Hours</b>	<b>120</b>

- <sup>1</sup> 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 from the Anthropology Department Head prior to registration.
- <sup>2</sup> Students are advised to take SOC 1000 as an elective in Year 1 as it is the prerequisite for upper level Sociology courses. Otherwise, students will require written consent from the Sociology and Criminology Department Head prior to registration.
- <sup>3</sup> Students are advised to take POLS 2502 as an elective in Year 2 as it is the prerequisite for upper level Political Studies courses. Otherwise, students will require written consent from the Political Studies Department Head prior to registration.

List A

FACULTY OF ARTS

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Anthropology</b>		
ANTH 2530	Anthropology of Political Systems	3
<u>ANTH 3320</u>	<u>Women in Cross-Cultural Perspective</u>	<u>3</u>
ANTH 3750	Anthropological Perspectives on Globalization and the World-System	3
<b>Economics</b>		
ECON 2630	An Introduction to the World's Economies	6
<b>History</b>		
HIST 1370	Modern World History: 1500-1800 (M)	3
HIST 1380	Modern World History: 1800-Present (M)	3
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 (M)	3
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
HIST 2734	Modern World History, 1980-Present: New World Order? (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"		
<b>Political Studies</b>		
POLS 2502	Introduction to World Affairs	3
POLS 3250	International Political Economy	3
POLS 3810	Introduction to Marxism	3
<b>Sociology and Criminology</b>		
SOC 2240	Sociology of Globalization	3
<u>SOC 3350</u>	<u>Feminism and Sociological Theory</u>	<u>3</u>
SOC 3380	Power, Politics and the Welfare State	3
SOC 3838	Ecology and Society	3
<u>SOC 3810</u>	<u>Sociological Perspectives on Gender and Sexuality</u>	<u>3</u>
SOC 3840	Community and Social Reconstruction	3
SOC 3890	Power and Inequality in Comparative Perspective	3



## History

### Deletion:

HIST 3572 The History of Women, Gender, and Sexuality in Canada (C) 6 cr -6.0

### Modifications:

HIST 2010 Indigenous History in Canada (C) 6 cr 0.0

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 INDG 2012. May not be held for credit with INDG 2012, the former NATV 2012, or the former HIST 2280.

HIST 2020 The Métis in Canada (C) 3 cr 0.0

A history of the Métis in Canada. Also offered as INDG 2020. May not be held for credit with INDG 2020 or the former NATV 2020.

HIST 3272 The Métis Nation: The Modern Era (C) 3 cr 0.0

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 INDG 3270. May not be held for credit with INDG 3270 or the former NATV 3270. Prerequisite: [a grade of "C" or better in six credit hours of Canadian History] or written consent of department head.

HIST 3442 Race, Colonialism, and Migration in Canadian History (C) 3 cr 0.0

This course examines topics in the history of race, colonization, and migration in Canada. It explores histories of colonialism and migration, how ideas of race, nation, and ethnicity have been shaped by them, and how these histories have shaped the experience of Indigenous people, racialized people, and Canada as a whole. Specific topics may include colonization and imperialism, slavery, immigration policy, as well as racialized, Indigenous, and ethnic communities. 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 3576 History of Women, Gender and Sexuality in Canada (C) 3 cr 0.0

This course examines the history of women, gender, and sexuality in Canada's past. Specific topics may include women, gender and sexuality in Indigenous peoples, English and French colonization, nation-building, immigration and urbanization, politics, race, migration and racialization, violence, war, and protest. This course is also offered as WOMN 3576. May not be held with WOMN 3576, the former HIST 3570, or the former HIST 3572. Prerequisite: 6 credit hours in History; or 3 credit hours in Women's and Gender Studies; or written consent of department head.

**NET CHANGE IN CREDIT HOURS: - 6.0**

## Icelandic Language and Literature

### Modification:

ICEL 2230 Icelandic-Canadian Literature 3 cr 0.0  
A survey of poetry, prose and drama by Icelandic-Canadian authors from the late 19th century settlement to the present. The course will examine the literature's individual characteristics and its place within the broader field of Canadian and world literature. All works will be in English or English translation.

### **NET CHANGE IN CREDIT HOURS: 0.0**

## Indigenous Studies

### Deletions:

NATV 1000 Orientation Course: The Colonizers and the Colonized 3 cr -3.0  
NATV 1200 Indigenous Peoples in Canada 6 cr -6.0  
NATV 1220 Indigenous Peoples in Canada, Part 1 3 cr -3.0  
NATV 1240 Indigenous Peoples in Canada, Part 2 3 cr -3.0  
NATV 1250 Introductory Cree 1 3 cr -3.0  
NATV 1260 Introductory Cree 2 3 cr -3.0  
NATV 1270 Introductory Anishinaabemowin (Ojibwe) 1 3 cr -3.0  
NATV 1280 Introductory Anishinaabemowin (Ojibwe) 2 3 cr -3.0  
NATV 1300 Selected Topics in Introductory Indigenous Language 3 cr -3.0  
NATV 1310 Introductory Anishinaabemowin (Ojibwe) Immersion 3 cr -3.0  
NATV 1320 Anishinaabemowin (Ojibwe) Literacy for Fluent Speakers 3 cr -3.0  
NATV 2000 Selected Topics in Indigenous Studies 3 cr -3.0  
NATV 2012 Indigenous History in Canada 6 cr -6.0  
NATV 2020 The Métis in Canada 3 cr -3.0  
NATV 2030 Working with Indigenous Elders 3 cr -3.0  
NATV 2040 The Dakota, Lakota, and Nakota Nations 3 cr -3.0  
NATV 2060 Eastern Woodlands Encounters Columbus to Confederation 3 cr -3.0  
NATV 2070 Cree, Innu, and Dene Nations 3 cr -3.0  
NATV 2080 Inuit Society and Culture 3 cr -3.0  
NATV 2100 Indigenous Spirituality 3 cr -3.0  
NATV 2110 Introduction to Indigenous Community Development 3 cr -3.0  
NATV 2220 Indigenous Societies and the Political Process 3 cr -3.0  
NATV 2250 Intermediate Cree 6 cr -6.0  
NATV 2272 Intermediate Anishinaabemowin (Ojibwe) 1 3 cr -3.0  
NATV 2274 Intermediate Anishinaabemowin (Ojibwe) 2 3 cr -3.0  
NATV 2276 Intermediate Anishinaabemowin (Ojibwe) Immersion 3 cr -3.0  
NATV 2300 Cree Literature 3 cr -3.0  
NATV 2310 Anishinaabe (Ojibwe) Literature 3 cr -3.0  
NATV 2410 Indigenous Literature in Canada 3 cr -3.0  
NATV 2420 Inuit Literature in Translation 3 cr -3.0  
NATV 2430 Indigenous Women's Stories 3 cr -3.0  
NATV 2450 Images of the "Indian" in North American Society 3 cr -3.0  
NATV 2510 Indigenous Experience in the U.S. to 1860 3 cr -3.0  
NATV 2520 Indigenous Experience in the U.S. 1860-Present 3 cr -3.0

NATV 2530 Introduction to Indigenous Theory	3 cr	-3.0
NATV 2540 Indigenous in the City	3 cr	-3.0
NATV 2630 Indigenous Feminisms	3 cr	-3.0
NATV 3000 Selected Topics	3 cr	-3.0
NATV 3100 Indigenous Healing Ways	3 cr	-3.0
NATV 3120 Exploring Indigenous Economic Perspectives	3 cr	-3.0
NATV 3140 Indigenous Resistance Literature	3 cr	-3.0
NATV 3150 Residential School Literature	3 cr	-3.0
NATV 3160 Fundraising for Indigenous Organizations	3 cr	-3.0
NATV 3170 Indigenous Peoples and Racism in Canada	3 cr	-3.0
NATV 3180 Advanced Anishinaabemowin (Ojibwe) 1	3 cr	-3.0
NATV 3190 Advanced Anishinaabemowin (Ojibwe) 2	3 cr	-3.0
NATV 3222 Structure of Anishinaabemowin (Ojibwe) Language	3 cr	-3.0
NATV 3224 Structure of the Cree Language	3 cr	-3.0
NATV 3240 Indigenous Medicine and Health	3 cr	-3.0
NATV 3270 The Métis Nation: The Modern Era	3 cr	-3.0
NATV 3280 Indigenous Peoples and the Canadian Justice System	3 cr	-3.0
NATV 3290 Independent Research	3 cr	-3.0
NATV 3300 Indigenous Language Planning and Development	3 cr	-3.0
NATV 3310 Canadian Law and Indigenous Peoples	3 cr	-3.0
NATV 3330 Indigenous People, Science and the Environment	3 cr	-3.0
NATV 3350 Indigenous Organizations	6 cr	-6.0
NATV 3360 Indigenous Women of Canada	3 cr	-3.0
NATV 3370 Political Development in the North	3 cr	-3.0
NATV 3380 Gender and Indigenous Societies	3 cr	-3.0
NATV 4100 Seminar in Advanced Anishinaabemowin (Ojibwe) Language Studies	3 cr	-3.0
NATV 4110 Algonquin Creative Writing	3 cr	-3.0
NATV 4200 First Nations' Government	3 cr	-3.0
NATV 4210 Seminar in Contemporary and Historical Métis Issues	3 cr	-3.0
NATV 4220 Environment, Economy and Aboriginal Peoples	3 cr	-3.0
NATV 4230 Traditional Knowledge and Indigenous Studies Research	3 cr	-3.0
NATV 4240 Arctic Lifestyles	3 cr	-3.0
NATV 4250 Indigenous Identities	3 cr	-3.0
NATV 4280 Missionaries, Colonialism, and Indigenous People	3 cr	-3.0
NATV 4290 Independent Research	3 cr	-3.0
NATV 4300 Advanced Selected Topics in Indigenous Studies	3 cr	-3.0
NATV 4320 Indigenous Economic Leadership	3 cr	-3.0
NATV 4330 Indigenous Aesthetics	3 cr	-3.0
NATV 4340 Representation and Discourse	3 cr	-3.0

Introductions:

INDG 1000 Orientation Course: The Colonizers and the Colonized	3 cr	+3.0
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The course which is offered as part of the summer session consists of an introduction to the colonization process as it regards Indigenous peoples and the processes of decolonization undertaken by the peoples since 1970. May not be held with the former NATV 1000.

Registration is restricted and written consent must be obtained from the instructor prior to registration. Prerequisite: this is a special course designed for first year entering Indigenous students.

- INDG 1200 Indigenous Peoples in Canada 6 cr +6.0  
A survey of the political, social, and economic situations of the contemporary First Nations, Métis, and Inuit Peoples in Canada. May not be held with any of: INDG 1220, INDG 1240, the former NATV 1200, the former NATV 1220, the former NATV 1240.
- INDG 1220 Indigenous Peoples in Canada, Part 1 3 cr +3.0  
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. May not be held with any of: INDG 1200, the former NATV 1200, the former NATV 1220.
- INDG 1240 Indigenous Peoples in Canada, Part 2 3 cr +3.0  
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. May not be held with any of: INDG 1200, the former NATV 1200, the former NATV 1240.
- INDG 1250 Introductory Cree 1 3 cr +3.0  
(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 INDG 1260 Introductory Cree 2. May not be held with the former NATV 1250.
- INDG 1260 Introductory Cree 2 3 cr +3.0  
(Lab required) Continuation of INDG 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. May not be held with the former NATV 1260. Prerequisite: INDG 1250 or the former NATV 1250.
- INDG 1270 Introductory Anishinaabemowin (Ojibwe) 1 3 cr +3.0  
Practical course intended for students who are not fluent in Anishinaabemowin (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 INDG 1280 Introductory Anishinaabemowin 2. May not be held with the former NATV 1270.
- INDG 1280 Introductory Anishinaabemowin (Ojibwe) 2 3 cr +3.0  
Continuation of INDG 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. May not be held with the former NATV 1280. Prerequisite: INDG 1270 or the former NATV 1270.
- INDG 1300 Selected Topics in Introductory Indigenous Language 3 cr +3.0  
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. May not be held with the former NATV 1300 when the subtitle is the same.

INDG 1310 Introductory Anishinaabemowin (Ojibwe) Immersion 3 cr +3.0  
Practical course intended for beginner level students who have no knowledge of Anishinaabemowin (Ojibwe). This course uses immersion methodologies, so very little English is used in the instruction. Emphasis will be on oral work for the purpose of learning very basic communication skills in Ojibwe. Regular attendance and active participation are obligatory. May not be held with the former NATV 1310.

INDG 1320 Anishinaabemowin (Ojibwe) Literacy for Fluent Speakers 3 cr +3.0  
Practical course intended for students who are fluent Anishinaabemowin speakers that are not literate in Ojibwe. Emphasis will be on reading and in writing in the Double Vowel Ojibwe Orthography. Regular attendance and active participation are obligatory. May not be held with the former NATV 1320. Prerequisite: written consent of instructor.

INDG 2000 Selected Topics in Indigenous Studies 3 cr +3.0  
The content of this course will vary. Depending on instructor, this course may have a field component. Contact the Department of Indigenous Studies for details. Students can earn multiple credits for this course only when the topic subtitle is different. May not be held with the former NATV 2000 when the topic subtitle is the same. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.

INDG 2012 Indigenous History in Canada 6 cr +6.0  
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 with any of: HIST 2010, the former HIST 2280, the former NATV 2012.

INDG 2020 The Métis in Canada 3 cr +3.0  
A history of the Métis in Canada. Also offered as HIST 2020. May not be held with any of: HIST 2020, the former NATV 2020.

INDG 2030 Working with Indigenous Elders 3 cr +3.0  
This course provides an opportunity for students to develop culturally relevant community service skills in Indigenous Studies and to acquire an understanding of traditional teachings by Elders from the Cree and Anishinaabe (Ojibwe) traditions. The course normally includes participation in the annual Elders and Traditional Teachers Gathering conference. May not be held with any of: the former NATV 2000 when titled "Working with Elders", the former NATV 2030. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor or department head.

INDG 2040 The Dakota, Lakota, and Nakota Nations 3 cr +3.0  
An interdisciplinary study of the history and traditional cultures of the Indigenous Peoples of the Northern Plains. May not be held with the former NATV 2040. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor

INDG 2050 Methods in Indigenous Studies 3 cr +3.0  
This course introduces students to a survey of core methods used by Indigenous Studies scholars. Methods that will be covered include archival, mapping, oral history and interviewing, data organization, critical statistical literacy, and research creation.

INDG 2060 Eastern Woodlands Encounters Columbus to Confederation 3 cr +3.0  
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, Sauteaux), Haudenosaunee (Iroquois Confederacy) and Maritime Algonquin Nations. May not be held with the former NATV 2060. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.

INDG 2070 Cree, Innu, and Dene Nations 3 cr +3.0  
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 Indigenous-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 Saysi Dene, north of the Churchill River. This course may include a field trip component. May not be held with the former NATV 2070. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.

INDG 2080 Inuit Society and Culture 3 cr +3.0  
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. May not be held with the former NATV 2000 when titled "Inuit Society and Culture" or the former NATV 2080. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.

INDG 2100 Indigenous Spirituality 3 cr +3.0  
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. May not be held with any of: the former NATV 2000 when titled "Indigenous Wisdom and Spirituality", the former NATV 2100, the former NATV 3000 when titled "Indigenous Wisdom and Spirituality."

INDG 2110 Introduction to Indigenous Community Development 3 cr +3.0  
Community development is the main strategy available for achieving the level of governance that most Indigenous 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 Indigenous context. May not be held with any of: the former NATV 2000 when titled "Introduction to Indigenous Community Development," the former NATV 2110. Prerequisite: [INDG 1200 or the former NATV 1200] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.

INDG 2220 Indigenous Societies and the Political Process 3 cr +3.0  
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 field trip. Contact the Department of Indigenous Studies for details. May not be held with the former NATV 2220.

INDG 2252 Intermediate Cree 1 3 cr +3.0  
(Lab required) The course is intended for students who have limited literal and verbal fluency in the Cree language. Focus will be the use of verbs in the first and second person plurals in the subjunctive form. Emphasis will also be on oral work (Lab) for the purpose of learning the various patterns of different verbs in the Cree language. Much of lesson content will be based on vocabulary related to the Cree lifestyles and occupations, plus everyday conversations and topics. May not be held with the former NATV 2250. Prerequisite: INDG 1260 (or the former NATV 1260) or [Matriculation Cree] or written consent of instructor or department head.

INDG 2254 Intermediate Cree 2 3 cr +3.0  
(Lab required) The course is a continuation of INDG 2252 intended for students who have some limited literal and verbal fluency in the Cree language. Focus will be the use of verbs in the first and second person plurals in the subjunctive form, plus further application of previous verbs in new advanced levels. Oral work (Lab) will be a huge part of the course to promote more verbal and written use of the language. Concept based vocabulary such as the traditional teachings and values is also introduced and intergraded at the conclusion of the course. May not be held with the former NATV 2250. Prerequisite: INDG 2252 or [Matriculation Cree] or written consent of instructor or department head.

INDG 2272 Intermediate Anishinaabemowin (Ojibwe) 1 3 cr +3.0  
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. May not be held with any of: the former NATV 2270, the former NATV 2272. Prerequisite: [INDG 1280 or the former NATV 1280] or [Matriculation Anishinaabemowin] or written consent of instructor.

INDG 2274 Intermediate Anishinaabemowin (Ojibwe) 2 3 cr +3.0  
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. May not be held with any of: the former NATV 2270, the former NATV 2274. Prerequisite: INDG 2272 or the former NATV 2272 or written consent of instructor or department head.

INDG 2276 Intermediate Anishinaabemowin (Ojibwe) Immersion 3 cr +3.0  
Practical course intended for students who are not yet fully proficient in Anishinaabemowin (Ojibwe). Emphasis will be on oral work for the purpose of improving fluency. This course will use immersion methods and so all instruction will be in Ojibwe. Regular attendance and active participation are obligatory. May not be held with the former NATV 2276. Prerequisite: INDG 1280 (or the former NATV 1280) or INDG 1310 (or the former NATV 1310) or written consent of instructor.

INDG 2300 Cree Literature 3 cr +3.0  
A survey of Cree literature based on the extensive study of particular texts in cultural, historical and spiritual contexts. May not be held with the former NATV 2300. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.

- INDG 2310 Anishinaabe (Ojibwe) Literature 3 cr +3.0  
 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. May not be held with the former NATV 2310. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 2410 Indigenous Literature in Canada 3 cr +3.0  
 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. May not be held with the former NATV 2410. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 2420 Inuit Literature in Translation 3 cr +3.0  
 An examination of various literary forms produced by Inuit including oral tradition and songs, life histories, contemporary novels and modern political writings. May not be held with the former NATV 2420. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 2430 Indigenous Women's Stories 3 cr +3.0  
 This course will investigate through the media of film and literature, including life writing, fiction, creative non-fiction and poetry, the experiences of Indigenous women in North America, particularly Canada, as articulated in their own voices. Also offered as WOMN 2430. May not be held with any of: WOMN 2430, the former NATV 2430. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) or INDG 1240 (or the former NATV 1240)] or [WOMN 1500 or WOMN 1600] or written consent from either the Women's and Gender Studies Coordinator or Indigenous Studies Department Head.
- INDG 2450 Images of the "Indian" in North American Society 3 cr +3.0  
 This course 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. May not be held with the former NATV 2450. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 2510 Indigenous Experience in the U.S. to 1860 3 cr +3.0  
 This course is a survey of the Indigenous experience in the U.S. from contact to 1860. The participation of Indigenous 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. May not be held with the former NATV 2510.
- INDG 2520 Indigenous Experience in the U.S. 1860 - Present 3 cr +3.0  
 This course will examine the historical experience of the Indigenous peoples in 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. May not be held with the former NATV 2520.



- INDG 2530 Introduction to Indigenous Theory 3 cr +3.0  
 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. May not be held with the former NATV 2530. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 2540 Indigenous in the City 3 cr +3.0  
 This course introduces students to the field of Urban Indigenous Studies through studying Indigenous-settler relations in the urban context. This course considers how cities are dynamic places shaped by Indigenous and settler societies, and how cities have, in turn, shaped Indigenous Peoples and citizens of first world settler-colonial nation-states. May not be held with the former NATV 2540. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)].
- INDG 2630 Indigenous Feminisms 3 cr +3.0  
 With reference to scholarship, activism, and literary, narrative, and/or creative works, this course critically engages differences and shared priorities across Indigenous feminisms past and present. Also offered as WOMN 2630. May not be held with any of: WOMN 2630, the former NATV 2630. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) or INDG 1240 (or the former NATV 1240)] or [WOMN 1500 or WOMN 1600] or written consent from either the Women's and Gender Studies Coordinator or Indigenous Studies Department Head.
- INDG 3000 Selected Topics 3 cr +3.0  
 The content of this course will vary. Contact the department for a course description. Students can earn multiple credits for this course only when the topic subtitle is different. May not be held with the former NATV 3000 when the topic subtitle is the same. Prerequisite: written consent of department head.
- INDG 3100 Indigenous Healing Ways 3 cr +3.0  
 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. May not be held with any of: the former NATV 3000 when titled "Exploring Indigenous Healing," the former NATV 3100. Prerequisite: INDG 2100 (or the former NATV 2100) or written consent of the instructor.
- INDG 3120 Exploring Indigenous Economic Perspectives 3 cr +3.0  
 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. May not be held with any of: ECON 2350, the former IDM 3000, the former NATV 3120, the former NATV 4310. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 3140 Indigenous Resistance Literature 3 cr +3.0  
 This course will trace and explore the history and practice of Indigenous resistance literature 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. May not be held with the former NATV 3140. Prerequisite: INDG 2410 (or the former NATV 2410) or written consent of instructor.

INDG 3150 Residential School Literature 3 cr +3.0  
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. May not be held with the former NATV 3150. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.

INDG 3160 Fundraising for Indigenous Organizations 3 cr +3.0  
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. May not be held with any of: the former NATV 3000 when titled "Financing Strategies for Indigenous Non-Profit Initiatives," the former NATV 3160. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.

INDG 3170 Indigenous Peoples and Racism in Canada 3 cr +3.0  
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. May not be held with any of: the former NATV 3000 when titled "Racism and Indigenous Peoples," the former NATV 3170. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.

INDG 3180 Advanced Anishinaabemowin (Ojibwe) 1 3 cr +3.0  
This course is a continuation of INDG 2274 Intermediate Anishinaabemowin (Ojibwe) 2. Students will learn advanced verb forms, new vocabulary, and to speak, read and write Anishinaabemowin. May not be held with the former NATV 3180. Prerequisite: INDG 2274 (or the former NATV 2274) or written consent of the instructor.

INDG 3190 Advanced Anishinaabemowin (Ojibwe) 2 3 cr +3.0  
Continuation of INDG 3180 Advanced Anishinaabemowin (Ojibwe) 1. Students will learn advanced verb forms, new vocabulary, and to speak, read and write Anishinaabemowin. May not be held with the former NATV 3190. Prerequisite: INDG 3180 (or the former NATV 3180) or written consent of the instructor.

INDG 3222 Structure of Anishinaabemowin (Ojibwe) Language 3 cr +3.0  
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. May not be held with any of: INDG 3224, LING 3320, the former NATV 2330, the former NATV 3222, the former NATV 3224. Prerequisite: INDG 2274 (or the former NATV 2274) or the former NATV 2270 or written consent of instructor.

- INDG 3224 Structure of the Cree Language 3 cr +3.0  
 A detailed structural analysis of Cree with special attention to the problem of dialect variation and to the contrastive analysis of Cree and English. May not be held with any of: INDG 3222, LING 3320, the former NATV 2320, the former NATV 3222, the former NATV 3224.  
 Prerequisite: INDG 2250 (or the former NATV 2250) or written consent of the instructor.
- INDG 3240 Indigenous Medicine and Health 3 cr +3.0  
 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. May not be held with the former NATV 3240.
- INDG 3270 The Métis Nation: The Modern Era 3 cr +3.0  
 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 with any of: HIST 3272, the former NATV 3270. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.
- INDG 3280 Indigenous Peoples and the Canadian Justice System 3 cr +3.0  
 A study of Indigenous peoples' relationships to civil and criminal law in modern Canadian society. May not be held with the former NATV 3280. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of department head.
- INDG 3290 Independent Research 3 cr +3.0  
 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. May not be held with the former NATV 3290 when the topic subtitle is the same. Prerequisite: written consent of department head.
- INDG 3300 Indigenous Language Planning and Development 3 cr +3.0  
 The social and political setting of the Indigenous languages in North America. Issues and methods in language policy development, maintenance, standardization, and innovation. May not be held with the former NATV 3300. Prerequisite: a grade of "C" or better in six credit hours of Indigenous Languages at the second year level.
- INDG 3310 Canadian Law and Indigenous Peoples 3 cr +3.0  
 A survey of laws relating to Indigenous peoples in Canada. Topics will include legal aspects of Indigenous title, First Nations treaties, First Nation and Métis land claims, the Indian Act, hunting and fishing rights, self-government, and constitutional issues. May not be held with the former NATV 3310. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 3330 Indigenous People, Science and the Environment 3 cr +3.0  
 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. May not be held with the former NATV 3330. Prerequisite: INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240) or written consent of instructor.

- INDG 3350 Indigenous Organizations 6 cr +3.0  
 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 Indigenous Studies for details. May not be held with any of: the former NATV 3320, the former NATV 3350. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 3360 Indigenous Women in Canada 3 cr +3.0  
 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 in Canada. May not be held with the former NATV 3360. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 3370 Political Development in the North 3 cr +3.0  
 An examination of historical and contemporary political processes in Nunavut, Northwest Territories, and Yukon including the negotiation and implementation of Indigenous land claims. May not be held with the former NATV 3370. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 3380 Gender and Indigenous Societies 3 cr +3.0  
 An examination of the theoretical issues that surround the cultural construction of Indigenous gender leading into detailed ethnographic and historical case studies. May not be held with the former NATV 3380. Prerequisites: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 4100 Seminar in Advanced Anishinaabemowin (Ojibwe) Language Studies 3 cr +3.0  
 This course will further investigate the grammar of the language. Various types of stories in different dialects will be used to illustrate the complexities of Anishinaabemowin. The students will translate English stories into Anishinaabemowin. The students will also learn to transcribe oral stories in Anishinaabemowin and translate them. May not be held with the former NATV 4100. Prerequisite: INDG 3190 (or the former NATV 3190) or written consent of the instructor.
- INDG 4110 Algonquin Creative Writing 3 cr +3.0  
 This course is intended for students who are fluent and literate in Ojibwe, Cree or Ojicree or have taken Intermediate or Advanced level Ojibwe. Emphasis will be on learning the principles of storytelling, writing compositions in an Algonquian language and editing. May not be held with the former NATV 4110. Prerequisites: INDG 3190 (or the former NATV 3190) or written consent of the instructor.
- INDG 4200 First Nations' Government 3 cr +3.0  
 A review and critical examination of the evolution of First Nations' self-government with a focus on contemporary issues, models and trends. May not be held with the former NATV 4200. Prerequisite: written consent of instructor.
- INDG 4210 Seminar in Contemporary and Historical Métis Issues 3 cr +3.0  
 A study of the literature, both primary and secondary, dealing with the Métis people in Canada. May not be held with the former NATV 4210. Prerequisite: written consent of instructor.

- INDG 4220 Environment, Economy and Indigenous Peoples 3 cr +3.0  
 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 Indigenous Studies for details. May not be held with the former NATV 4220. Prerequisite: written consent of instructor.
- INDG 4230 Traditional Knowledge and Indigenous Studies Research 3 cr +3.0  
 A study of issues influencing oral histories, case studies, interviews, and other techniques used in research with Indigenous peoples. Depending on the instructor, this course may have a field component. Contact the Department of Indigenous Studies for details. May not be held with the former NATV 4230. Prerequisite: written consent of instructor.
- INDG 4240 Arctic Lifestyles 3 cr +3.0  
 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 Indigenous Studies for details. May not be held with the former NATV 4240. Prerequisite: written consent of instructor.
- INDG 4250 Indigenous Identities 3 cr +3.0  
 An interdisciplinary study of Indigenous values, cultures and contemporary identities with emphasis on the impact of colonization. May not be held with the former NATV 4250. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 4280 Missionaries, Colonialism, and Indigenous People 3 cr +3.0  
 A study of Indigenous responses to Christian missions with a particular emphasis on resistance, syncretism, and "prophet" movements. May not be held with the former NATV 4280. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.
- INDG 4290 Independent Research 3 cr +3.0  
 Supervised research or field work. Results will be presented in a form appropriate to the subject of study. The course content may vary. Students can earn multiple credits for this course only when the topic subtitle is different. May not be held with the former NATV 4290 when the topic subtitle is the same. Prerequisite: written consent of instructor, based on a written research proposal, must be obtained before registration.
- INDG 4300 Advanced Selected Topics in Indigenous Studies 3 cr +3.0  
 The course content will vary from year to year. Students can earn multiple credits for this course only when the topic subtitle is different. Contact the Department for a course description. May not be held with the former NATV 4300 when the topic subtitled is the same. Prerequisite: written consent of instructor.
- INDG 4320 Indigenous Economic Leadership 3 cr +3.0  
 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. May not be held with any of: the former NATV 4230, the former IDM 4090. Prerequisite: [INDG 1200 (or the former NATV 1200)] or [INDG 1220 (or the former NATV 1220) and INDG 1240 (or the former NATV 1240)] or written consent of instructor.

INDG 4330 Indigenous Aesthetics 3 cr +3.0  
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. May not be held with the former NATV 4330. Prerequisite: written consent of instructor.

INDG 4340 Representation and Discourse 3 cr +3.0  
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. May not be held with the former NATV 4340. Prerequisite: [INDG 2410 or the former NATV 2410] or written consent of instructor.

### **NET CHANGE IN CREDIT HOURS: +3.0**

Program modifications:

Modifications to the following programs are outlined on the next 24 pages:

- **Bachelor of Arts (General Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (General Major) in Indigenous Studies**
- **Anishinaabemowin (Ojibwe) Focus**
- **Cree Language Focus**
- **Bachelor of Arts (Single Advanced Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (Single Advanced Major) in Indigenous Studies**
- **Bachelor of Arts (Single Advanced Major) in Native Studies, Aboriginal Governance Stream**
  - *Renamed:* **Bachelor of Arts (Single Advanced Major) in Indigenous Studies, Indigenous Governance Stream**
- **Bachelor of Arts (Double Advanced Major) in Native Studies**
  - *Renamed:* **Bachelor of Arts (Double Advanced Major) in Indigenous Studies**
- **Minor (Concentration) in Indigenous Languages (Option 1)**
- **Minor (Concentration) in Indigenous Languages (Option 2)**
- **Minor (Concentration) in Native Studies**
  - *Renamed:* **Minor (Concentration) in Indigenous Studies**

Department of Native Studies

- The Department of Native Studies proposes a Department name change to the Department of Indigenous Studies and the introduction of a new course prefix (INDG) for all of their courses. This proposal combined with the deletion of the 6 credit hour Intermediate Cree course in favour of two 3 credit hour Intermediate Cree courses results in the modifications that follow.

Added Material

~~Deleted Material~~

## **Indigenous Native Studies**

**Head:** Cary Miller

**Campus Address/General Office:** 204 Isbister Building

**Telephone:** 204 474 9266

**Email Address:** [Indigenous\\_Studies@umanitoba.ca](mailto:Indigenous_Studies@umanitoba.ca)

**Website:** [www.umanitoba.ca/Indigenous\\_Studies](http://www.umanitoba.ca/Indigenous_Studies)

### **Indigenous Native Studies Program Information**

Courses in this department examine the history, art, literature, governance, languages, and the philosophical and religious traditions of Canada's original inhabitants. Other courses explore North American legal, political, and health care systems in relation to Indigenous (First Nations, Metis, and Inuit) people. Indigenous and non-Indigenous students may specialize in either Indigenous Native Studies or Indigenous languages, Anishinaabemowin (Ojibwe) and Cree.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see: 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 INDG NATV 1200 or "C" or better in both INDG NATV 1220 and INDG NATV 1240.

A minimum "C" average in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

### **Anishinaabemowin (Ojibwe) and Cree Language Focus Areas (General Major Degree only)**

Students may elect to take courses that, in combination, make up a focus area in either the Anishinaabemowin (Ojibwe) or Cree languages. The required courses for these focus areas will be completed as part of the General Major Degree requirements.

## **Minor (Concentration) Program**

### 1. Indigenous Native Studies

For entry to the Minor (Concentration), the prerequisite is a grade of “C” or better in one of INDG NATV 1200 or “C” or better in both INDG NATV 1220 and INDG NATV 1240.

### 2. Indigenous Languages

For entry to the Minor (Concentration), the prerequisite is a grade of “C” or better in both INDG NATV 1250 and INDG NATV 1260; or “C” or better in both INDG NATV 1270 and INDG NATV 1280; or “C” or better in [both of INDG 2252 and INDG 2254 or the former NATV 2250] or [both INDG NATV 2272 and INDG NATV 2274 (the former NATV 2270)].

## **Other**

Students will be permitted to register for a Major in Indigenous Native Studies and a Minor in Indigenous Languages. Students may not complete both a Major and Minor in Indigenous Native Studies. Students Majoring in Indigenous Native Studies (no language concentration) who choose to complete an Indigenous Language Minor will be required to complete 18 credit hours of Indigenous Language courses in addition to the six credit hours of Indigenous Language required in the General Major program.

Likewise, students may not complete both the General Major Degree with an Indigenous Language Focus [Anishinaabemowin (Ojibwe) / Cree] and an Indigenous Language Minor.

Before registering for approved cross-listed courses, students should consult the Calendar or the departments regarding prerequisites for specific courses.

## **Indigenous Aboriginal Governance Stream**

Students interested in pursuing a Single Advanced Major in Indigenous 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 Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.



## Major Program

For entry to the Advanced Major, Indigenous Aboriginal Governance Stream, the prerequisite is a grade of “C” or better in INDG NATV 1200 or a “C” or better in both INDG NATV 1220 and INDG NATV 1240.

### REQUIRED MINOR PROGRAM

For entry to the required Minor in Business for students who wish the Indigenous 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 Indigenous Native Studies

## Indigenous Native Studies, B.A. Single Advanced Major

### Degree Requirements

Year 1	Hours
Select either:	6
<u>INDG NATV 1200</u> Indigenous Peoples in Canada	
or both of:	
<u>INDG NATV 1220</u> Indigenous Peoples in Canada, Part 1 & <u>INDG NATV 1240</u> and Indigenous Peoples in Canada, Part 2	
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
18 credit hours from outside of your Major and Minor areas of study	18
<b>Hours</b>	<b>30</b>
<b>Year 2</b>	
<u>INDG NATV 2530</u> Introduction to Indigenous Theory	3
12 credit hours in courses offered by <u>Indigenous Native Studies</u> numbered at the 2000 level or above <sup>1</sup>	12

6 credit hours of Indigenous Language courses offered by <u>Indigenous Native Studies</u> <sup>2</sup>	6
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
3 credit hours from outside of your Major and Minor areas of study	3
<b>Hours</b>	<b>30</b>

### Year 3

12 credit hours in courses offered by <u>Indigenous Native Studies</u> numbered at the 3000 level or above	12
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
12 credit hours from outside of your Major and Minor areas of study	12
<b>Hours</b>	<b>30</b>

### Year 4

<u>INDG NATV 4230</u> Traditional Knowledge and Indigenous Studies Research or <u>INDG NATV 4290</u> or Independent Research	3
6 credit hours in courses offered by <u>Indigenous Native Studies</u> numbered at the 4000 level	6
9 credit hours from outside of your Major and Minor areas of study	9
12 credit hours of open electives	12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Hours</b>	<b>30</b>

<b>Total Hours</b>	<b>120</b>
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<sup>1</sup> Students may substitute up to six credit hours from the list of approved courses in lieu of Indigenous Native Studies courses.

<sup>2</sup> The following courses count as Indigenous Language courses: INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274, INDG NATV 2300, INDG NATV 2310, INDG NATV 3180, INDG NATV 3190, INDG NATV 3222, INDG NATV 3224, and INDG NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses.

### List of Approved Courses in Indigenous Native Studies

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Indigenous Native Studies are given below.

Course	Title	Hours
<b>School of Art</b>		
FAAH 2090	Art of the North American Aboriginal Peoples	3
FAAH 3430	Inuit Art	3
<b>History Department</b>		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3
HIST 1440	History of Canada (C)	6
HIST 2010	Indigenous History in Canada (C)	6
HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (M)	6
HIST 4120	History of Aboriginal Rights (C)	6

### Indigenous Native Studies, B.A., Double Advanced Major

<b>Year 1</b>	<b>Hours</b>
Select either:	
<del>INDG NATV</del> 1200 Indigenous Peoples in Canada	6
or both of:	
<del>INDG NATV</del> 1220 Indigenous Peoples in Canada, Part 1 & <del>INDG NATV</del> 1240 and Indigenous Peoples in Canada, Part 2	
6 credit hours in the second Advanced Major subject field as described in that unit's section of the calendar	6
18 credit hours from outside both Advanced Major subject fields	18
<b>Hours</b>	<b>30</b>
<b>Years 2-4</b>	
<del>INDG NATV</del> 2530 Introduction to Indigenous Theory	3
9 credit hours in courses offered by <u>Indigenous Native</u> Studies numbered at the 2000 level or above <sup>1</sup>	9
6 credit hours of Indigenous Language courses offered by <u>Indigenous Native</u> Studies <sup>2</sup>	6
9 credit hours in courses offered by <u>Indigenous Native</u> Studies numbered at the 3000 level or above	9
<del>INDG NATV</del> 4230 Traditional Knowledge and Indigenous Studies Research or <del>INDG NATV</del> 4290 or Independent Research	3
6 credit hours in courses offered by <u>Indigenous Native</u> Studies numbered at the 4000 level	6

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36 credit hours from second Advanced Major subject field as described in that unit's section of the calendar	36
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18 credit hours from outside both Advanced Major subject fields	18
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Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

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<b>Hours</b>	<b>90</b>
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<b>Total Hours</b>	<b>120</b>
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<sup>1</sup> Students may substitute up to six credit hours from the list of approved courses in lieu of Indigenous Native Studies courses.

<sup>2</sup> The following courses count as Indigenous Language courses: INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274, INDG NATV 2300, INDG NATV 2310, INDG NATV 3180, INDG NATV 3190, INDG NATV 3222, INDG NATV 3224, and INDG NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses.

### List of Approved Courses in Indigenous Native Studies

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Indigenous Native Studies are given below

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<b>Course</b>	<b>Title</b>	<b>Hours</b>
School of Art		
FAAH 2090	Art of the North American Aboriginal Peoples	3
FAAH 3430	Inuit Art	3
Department of History		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3

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<b>Course</b>	<b>Title</b>	<b>Hours</b>
HIST 1440	History of Canada (C)	6
HIST 2010	Indigenous History in Canada (C)	6
HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (M)	6
HIST 4120	History of Aboriginal Rights (C)	6

## **Indigenous Native Studies, B.A. General**

### **Indigenous Native Studies General Major (Option 1)<sup>1</sup>**

<b>Year 1</b>	<b>Hours</b>
Select either:	6
<u>INDG NATV</u> 1200 Indigenous Peoples in Canada	
or both of:	
<u>INDG NATV</u> 1220 Indigenous Peoples in Canada, Part 1 & <u>INDG NATV</u> 1240 and Indigenous Peoples in Canada, Part 2	
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
18 credit hours from outside of your Major and Minor areas of study	18
<b>Hours</b>	<b>30</b>
<b>Years 2-3</b>	
<u>INDG NATV</u> 2530 Introduction to Indigenous Theory	3
6 credit hours of Indigenous Language courses offered by <u>Indigenous Native Studies</u> <sup>1</sup>	6
9 credit hours of <u>Indigenous Native Studies</u> at the 2000 level or above <sup>2</sup>	9
6 credit hours of <u>Indigenous Native Studies</u> at the 3000 level or above	6
12 credit hours from your Minor area of study as described in that unit's section of the calendar	12
12 credit hours from outside of your Major and Minor areas of study	12
12 credit hours of open electives	12

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Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

<b>Hours</b>	<b>60</b>
<b>Total Hours</b>	<b>90</b>

- <sup>1</sup> The following courses count as Indigenous Language courses: INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274, INDG NATV 2300, INDG NATV 2310, INDG NATV 3180, INDG NATV 3190, INDG NATV 3222, INDG NATV 3224, AND INDG NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses.
- <sup>2</sup> Students may substitute up to 12 credit hours from the list of approved courses in lieu of Indigenous Native Studies but must have six credit hours in Indigenous Native Studies or Indigenous Languages courses offered by Indigenous Native Studies numbered at the 3000 level or above.



**Indigenous Native Studies General Major Anishinaabemowin (Ojibwe)  
Language Focus (Option 2)**

<b>Year 1</b>	<b>Hours</b>
Select either:	6
<del>INDG NATV</del> 1200 Indigenous Peoples in Canada	
or both of:	
<del>INDG NATV</del> 1220 Indigenous Peoples in Canada, Part 1 & <del>INDG NATV</del> 1240 and Indigenous Peoples in Canada, Part 2	
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
18 credit hours from outside of your Major and Minor areas of study	18
<b>Hours</b>	<b>30</b>
<b>Years 2-3</b>	
<del>INDG NATV</del> 1270 Introductory Anishinaabemowin (Ojibwe) 1	3
<del>INDG NATV</del> 1280 Introductory Anishinaabemowin (Ojibwe) 2	3
<del>INDG NATV</del> 2272 Intermediate Anishinaabemowin (Ojibwe) 1	3
<del>INDG NATV</del> 2274 Intermediate Anishinaabemowin (Ojibwe) 2	3
<del>INDG NATV</del> 3180 Advanced Anishinaabemowin (Ojibwe) 1	3
<del>INDG NATV</del> 3190 Advanced Anishinaabemowin (Ojibwe) 2	3
<del>INDG NATV</del> 2530 Introduction to Indigenous Theory	3
3 credit hours of <u>Indigenous Native</u> Studies at the 3000 level or above	3

12 credit hours from your Minor area of study as described in that unit's section of the calendar	12
12 credit hours from outside of your Major and Minor areas of study	12
12 credit hours of open electives	12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Hours</b>	<b>60</b>
<b>Total Hours</b>	<b>90</b>

### **Indigenous Native Studies General Major Cree Language Focus (Option 3)**

<b>Year 1</b>	<b>Hours</b>
Select either:	6
<del>INDG NATV 1200</del> Indigenous Peoples in Canada	
or both of:	
<del>INDG NATV 1220</del> Indigenous Peoples in Canada, Part 1 & <del>INDG NATV 1240</del> and Indigenous Peoples in Canada, Part 2	
6 credit hours from your Minor area of study as described in that unit's section of the calendar	6
18 credit hours from outside of your Major and Minor areas of study	18
<b>Hours</b>	<b>30</b>
<b>Years 2-3</b>	
<del>INDG NATV 1250</del> Introductory Cree 1	3
<del>INDG NATV 1260</del> Introductory Cree 2	3
<del>NATV 2250</del> <del>Intermediate Cree</del>	6
<del>INDG 2252</del> <del>Intermediate Cree 1</del> <sup>1</sup>	<u>3</u>
<del>INDG 2254</del> <del>Intermediate Cree 2</del> <sup>1</sup>	<u>3</u>
<del>INDG NATV 3224</del> Structure of the Cree Language	3
<del>INDG NATV 3300</del> Indigenous Language Planning and Development	3
<del>INDG NATV 2530</del> Introduction to Indigenous Theory	3
3 credit hours of <u>Indigenous Native Studies</u> at the 3000 level or above	3

12 credit hours from your Minor area of study as described in that unit's section of the calendar	12
12 credit hours from outside of your Major and Minor areas of study	12
12 credit hours of open electives	12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Hours</b>	<b>60</b>
<b>Total Hours</b>	<b>90</b>
<sup>1</sup> The former NATV 2250 can be used in place of INDG 2252 and INDG 2254.	

## List of Approved Courses in Indigenous Native Studies

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Indigenous Native Studies are given below.

Course	Title	Hours
<b>School of Art</b>		
FAAH 2090	Art of the North American Aboriginal Peoples	3
FAAH 3430	Inuit Art	3
<b>History Department</b>		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3
HIST 1440	History of Canada (C)	6
HIST 2010	Indigenous History in Canada (C)	6
HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (M)	6
HIST 4120	History of Aboriginal Rights (C)	6

## Indigenous Languages Minor (Concentration)

### Minor Requirements

#### Indigenous Languages Minor (Concentration) (Option 1)<sup>1</sup>

Year 1	Hours
Both of:	6
<del>INDG NATV 1250</del> Introductory Cree 1 & <del>INDG</del> and Introductory Cree 2 NATV 1260	
or both of:	
<del>INDG NATV 1270</del> Introductory Anishinaabemowin (Ojibwe) 1 & <del>INDG</del> and Introductory Anishinaabemowin (Ojibwe) 2 NATV 1280	
<b>Hours</b>	<b>6</b>
<b>Year 2</b>	
Select either <u>both of</u> :	6
<del>NATV 2250</del> Intermediate Cree	
<del>INDG 2252 &amp;</del> <u>Intermediate Cree 1 and<sup>2</sup></u> <del>INDG 2254</del> <u>Intermediate Cree 2</u>	
or both of:	
<del>INDG NATV 2272</del> Intermediate Anishinaabemowin (Ojibwe) 1 & <del>INDG</del> and Intermediate Anishinaabemowin (Ojibwe) 2 NATV 2274	
<b>Hours</b>	<b>6</b>

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### Year 3

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Select either: 6

6 credit hours in Indigenous languages <sup>3</sup>

or

6 credit hours of approved courses in Indigenous Native Studies <sup>4,5</sup>

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<b>Hours</b>	<b>6</b>
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<b>Total Hours</b>	<b>18</b>
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<sup>1</sup> Students who wish to declare a Major or a Minor should consult with the department head.

<sup>2</sup> The former NATV 2250 can be used in place of INDG 2252 and INDG 2254.

<sup>3</sup> The following courses count as Indigenous Language courses: INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274, INDG NATV 2300, INDG NATV 2310, INDG NATV 3180, INDG NATV 3190, INDG NATV 3222, INDG NATV 3224, and INDG NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses.

<sup>4</sup> No more than 12 credit hours may be taken from INDG NATV 1200, INDG NATV 1220, INDG NATV 1240, INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274.

<sup>5</sup> Six credit hours may be from related linguistics courses approved by the department.

## Indigenous Languages Minor (Concentration) (Option 2)<sup>1</sup>

Year 1		Hours
Select either <u>both</u> of:		6
NATV 2250	<del>Intermediate Cree</del>	
<u>INDG 2252</u> & <u>INDG 2254</u>	<u>Intermediate Cree 1</u> and <u>Intermediate Cree 2</u>	
or both of:		
<u>INDG NATV 2272</u> & <u>INDG NATV 2274</u>	Intermediate Anishinaabemowin (Ojibwe) 1 and Intermediate Anishinaabemowin (Ojibwe) 2	
<b>Hours</b>		<b>6</b>
Year 2		Hours
<u>INDG NATV 3222</u> or <u>INDG NATV 3224</u>	Structure of Anishinaabemowin (Ojibwe) Language or Structure of the Cree Language	3
<u>INDG NATV 3300</u>	Indigenous Language Planning and Development	3
<b>Hours</b>		<b>6</b>
Year 3		Hours
Select either:		6
6 credit hours in Indigenous languages <sup>2</sup>		
or		
6 credit hours of approved courses in <u>Indigenous Native Studies</u> <sup>3,4</sup>		
<b>Hours</b>		<b>6</b>
<b>Total Hours</b>		<b>18</b>



- <sup>1</sup> Students who wish to declare a Major or a Minor should consult with the department head.
- <sup>2</sup> The following courses count as Indigenous Language courses: INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274, INDG NATV 2300, INDG NATV 2310, INDG NATV 3180, INDG NATV 3190, INDG NATV 3222, INDG NATV 3224, AND INDG NATV 3300. Students may take a placement exam to place into advanced Indigenous Language courses.
- <sup>3</sup> No more than 12 credit hours may be taken from INDG NATV 1200, INDG NATV 1220, INDG NATV 1240, INDG NATV 1250, INDG NATV 1260, INDG NATV 1270, INDG NATV 1280, the former NATV 2250, INDG 2252, INDG 2254, INDG NATV 2272, INDG NATV 2274.
- <sup>4</sup> Six credit hours may be from related linguistics courses approved by the department.

### List of Approved Courses in Indigenous Native Studies

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Indigenous Native Studies are given below.

Course	Title	Hours
<b>School of Art</b>		
FAAH 2090	Art of the North American Aboriginal Peoples	3
FAAH 3430	Inuit Art	3
<b>History Department</b>		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3
HIST 1440	History of Canada (C)	6
HIST 2010	Indigenous History in Canada (C)	6

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<b>Course</b>	<b>Title</b>	<b>Hours</b>
HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (M)	6
HIST 4120	History of Aboriginal Rights (C)	6

## **Indigenous Native Studies Minor (Concentration)**

### **Minor Requirements**

<b>Year 1</b>	<b>Hours</b>
Select either:	6
<u>INDG NATV</u> 1200 Indigenous Peoples in Canada	
or both of:	
<u>INDG NATV</u> 1220 Indigenous Peoples in Canada, Part 1 & <u>INDG NATV</u> 1240 and Indigenous Peoples in Canada, Part 2	
<b>Hours</b>	<b>6</b>
<b>Years 2-3</b>	
Select 12 credit hours in courses offered by <u>Indigenous Native Studies</u> numbered at the 2000 level or above <sup>1</sup>	12
<b>Hours</b>	<b>12</b>
<b>Total Hours</b>	<b>18</b>

<sup>1</sup> Students may substitute up to six credit hours from the list of approved courses in lieu of Indigenous Native Studies courses.

### **List of Approved Courses in Indigenous Native Studies**

Approved courses from other faculties/schools for partial fulfilment of the Major and Minor in Indigenous Native Studies are given below.

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>School of Art</b>		
FAAH 2090	Art of the North American Aboriginal Peoples	3
FAAH 3430	Inuit Art	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>History Department</b>		
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3
HIST 1440	History of Canada (C)	6
HIST 2010	Indigenous History in Canada (C)	6
HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (M)	6
HIST 4120	History of Aboriginal Rights (C)	6

**Indigenous Aboriginal Governance, B.A. Single Advanced Major**  
**Indigenous Aboriginal Governance Stream**

<b>Years 1-4</b>	<b>Hours</b>
Select either:	6
<u>INDG NATV</u> 1200 Indigenous Peoples in Canada	
or both of:	
<u>INDG NATV</u> 1220 Indigenous Peoples in Canada, Part 1 & <u>INDG NATV</u> 1240 and Indigenous Peoples in Canada, Part 2	
Select one of:	3
ECON 1010 Introduction to Microeconomic Principles	
ECON 1210 Introduction to Canadian Economic Issues and Policies	
ECON 1220 Introduction to Global and Environmental Economic Issues and Policies	
<u>INDG NATV</u> 2110 Introduction to Indigenous Community Development	3
POLS 2702 Introduction to Canadian Politics	3
POLS 2802 Introduction to Indigenous Politics	3
STAT 1000 Basic Statistical Analysis 1	3
12 credit hours from the following Political Governance courses:	12
<u>INDG NATV</u> 2220 Indigenous Societies and the Political Process	
<u>INDG NATV</u> 3310 Canadian Law and Indigenous Peoples	
<u>INDG NATV</u> 3280 Indigenous Peoples and the Canadian Justice System	

<del>INDG NATV</del> 3370	Political Development in the North	
<del>INDG NATV</del> 4200	First Nations' Government	
POLS 3872	Indigenous Governance	
12 credit hours from the following <del>Indigenous Aboriginal</del> Business and Economics courses:		12
<del>INDG NATV</del> 3120	Exploring Indigenous Economic Perspectives	
<del>INDG NATV</del> 3160	Fundraising for Indigenous Organizations	
<del>INDG NATV</del> 3350	Indigenous Organizations	
<del>INDG NATV</del> 4320	Indigenous Economic Leadership	
6 credit hours from the following Traditional Knowledge courses:		6
<del>INDG NATV</del> 2030	Working with Indigenous Elders	
<del>INDG NATV</del> 3330	Indigenous People, Science and the Environment	
<del>INDG NATV</del> 4220	Environment, Economy and Aboriginal Peoples	
<del>INDG NATV</del> 4230	Traditional Knowledge and Indigenous Studies Research	
Required Minor in Business for those students in a declared <del>Indigenous Aboriginal</del> Governance Stream: <sup>1</sup>		
ACC 1100	Introductory Financial Accounting	3
GMGT 2060	Management and Organizational Theory	3
HRIR 2440	Human Resource Management	3
MKT 2210	Fundamentals of Marketing	3

6 credit hours from the following Business courses to complete the Required Business Minor: <sup>1</sup>		6
ACC 1110	Introductory Managerial Accounting	
ENTR 2010	Managing the Smaller Business	
ENTR 2020	Starting a New Business	
GMGT 2010	Business Communications	
GMGT 3300	Commercial Law	
LEAD 2010	Learning to Lead	
FIN 2200	Corporate Finance	
FIN 3470	Small Business Finance	
HRIR 4410	Staffing and Management Development	
MIS 2000	Information Systems for Management	
42 credit hours from outside of your Major and Minor areas of study		42
9 credit hours of open electives		9
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Hours</b>		<b>120</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Students must ensure that all course prerequisites are met when selecting courses for the Minor.

## Labour Studies

Program modifications:

Modifications to the programs listed below are outlined on the next 3 pages:

- **Bachelor of Arts (General Major) in Labour Studies**
- **Bachelor of Arts (Single Advanced Major) in Labour Studies**
- **Bachelor of Arts (Single Advanced Major) in Labour Studies, Co-operative Education Option**
- **Minor (Concentration) in Labour Studies**



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## Proposed Modification to the List of Electives for all Labour Studies programs

### 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.

Course	Title	Hours
<b>Faculty of Arts</b>		
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	Modern Canada (C)	3
HIST 2288	History of Social Movements in Canada (C)	3
HIST 2400	History of Human Rights and Social Justice in the Modern World (M)	3

Course	Title	Hours
HIST 2670	History of Capitalism (M)	3
HIST 2671	Histoire du capitalisme (T)	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 (M)	3
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	3
<del>HIST 2974</del>	<del>Course no longer offered</del>	<del>6</del>
HIST 3052	Canada since the 1960s (C)	3
HIST 3054	Canada and the United States (C)	3
HIST 3212	Global Sweatshops, Global Struggles (M)	3
<del>HIST 3572</del>	<del>The History of Women, Gender, and Sexuality in Canada (C)</del>	<del>6</del>
<u>HIST 3576</u>	<u>History of Women, Gender and Sexuality in Canada (C)</u>	<u>3</u>
HIST 3730	A History of Western Canada (C)	6
HIST 3800	History of Winnipeg from 1870-2000 (C)	3
HIST 4890	Canadian Social History (C)	6
<u>Indigenous Native Studies:</u>		
<del>INDG NATV</del> 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 3940	Canadian Public Policy	3
POLS 4370	Comparative Public Administration	3
Sociology:		
SOC 2292	Understanding Social Research	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
SOC 2294	Understanding Social Statistics	3
SOC 3371	Sociologie du travail	3
SOC 3380	Power, Politics and the Welfare State	3
SOC 3471	Sociologie politique	3
SOC 3820	Qualitative and Historical Methods in Sociology	3
SOC 3871	Inégalités sociales	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
<b>I.H. Asper School of Business (Faculty of Management)</b>		
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

## Linguistics

Program modifications:

Modifications to the programs listed below are detailed on the next 4 pages. Following the program modifications is a revised Transition Plan, for students who were part way through a Linguistics degree before these were modified (Senate, December 2020), effective for the 2021 Fall Term.

- **Bachelor of Arts (Single Advanced Major) in Linguistics, Co-operative Education Option** (*new*)
- **Bachelor of Arts (Single Honours) in Linguistics, Co-operative Education Option** (*new*)
- Revised Linguistics Program Transition Plan – LING 1420

## Department of Linguistics

- The Department of Linguistics proposes the addition of Co-operative Education options to their Single Advanced Major and Honours programs.

Added Material

~~Deleted Material~~

## Linguistics

**Head:** Jila Ghomeshi

**Campus Address/General Office:** 534 Fletcher Argue Building

**Telephone:** 204 474 9596

**Email Address:** lingdpt@umanitoba.ca

**Website:** [umanitoba.ca/linguistics](http://umanitoba.ca/linguistics)

## 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: 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 1010 or the former LING 1200 or written consent of the department head.

A minimum "C" average 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 1010 or the former LING 1200 or written consent of the department head.

## Honours Program

For entry to the Honours program see: Basic Faculty Regulations for the B.A. General, Advanced, and Honours Degree Programs.

### **Co-operative Education Option**

Students interested in alternating employment terms and academic terms as part of the Single Advanced Major or the Single Honours programs may apply to enter the Co-operative Education option upon completion of their second year in the program (min. 48 credit hours total). The course and grade requirements for entry to these options are the same as those required for entry to the regular four-year Single Advanced Major and Single Honours programs, respectively. Students should refer to the general faculty regulations for Cooperative Options for more information.

### **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 is offered jointly with Red River College. This program is currently undergoing revisions; interested students should contact the department general office for information.

Students intending to Major in Linguistics are strongly encouraged to undertake the in-depth study of a second language.

## **Linguistics, B.A. Single Advanced Major (Incl. Co-operative Education Option if selected)**

<b>Year 1</b>		<b>Hours</b>
LING 1000	Introduction to Linguistics	3
LING 1010	Language in Context	3
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
18 credit hours from outside of your Major and Minor areas of study		18
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
LING 2100	Phonetics and Phonology	3
LING 2400	Morphology and Syntax	3
3 credit hours in Linguistics courses numbered at or above the 1000 level		3
12 credit hours in Linguistics courses numbered at or above the 2000 level		12
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
3 credit hours from outside of your Major and Minor areas of study		3
<b>Hours</b>		<b>30</b>
<b>Year 3</b>		
15 credit hours in Linguistics courses numbered at or above the 3000 level		15
6 credit hours from your Minor area of study as described in that unit's section of the calendar		6
9 credit hours from outside of your Major and Minor areas of study		9
<b>Hours</b>		<b>30</b>
<b>Year 4</b>		
6 credit hours in Linguistics courses numbered at the 4000 level		6
12 credit hours from outside of your Major and Minor areas of study		12
12 credit hours of free options		12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Hours</b>		<b>30</b>
<b>Years 3-4</b>		
<u>If the Co-operative Education Option is selected, time to completion will be extended by 12 months and the following three, 1 credit hour work term courses will count toward the free options required in this program.</u>		
<u>ARTS 3010</u>	<u>Arts Co-operative Option 1</u>	
<u>ARTS 3020</u>	<u>Arts Co-operative Option 2</u>	
<u>ARTS 3030</u>	<u>Arts Co-operative Option 3</u>	
<b>Total Hours</b>		<b>120</b>

## **Linguistics, B.A. Single Honours (Incl. Co-operative Education Option if selected)**

<b>Year 1</b>		<b>Hours</b>
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LING 1000	Introduction to Linguistics	3
LING 1010	Language in Context	3
24 credit hours of Ancillary Options		3
<b>Hours</b>		<b>30</b>

<b>Year 2</b>		
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LING 2100	Phonetics and Phonology	3
LING 2400	Morphology and Syntax	3
3 credit hours in Linguistics courses numbered at or above the 1000 level		3
12 credit hours in Linguistics courses numbered at or above the 2000 level		12
9 credit hours in free options		9
<b>Hours</b>		<b>30</b>

<b>Year 3</b>		
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15 credit hours in Linguistics courses numbered at or above the 3000 level		15
15 credit hours in free options		15
<b>Hours</b>		<b>30</b>

<b>Year 4</b>		
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12 credit hours in Linguistics courses numbered at the 4000 level		12
18 credit hours in free options		18
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Hours</b>		<b>30</b>

<b>Years 3-4</b>		
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If the Co-operative Education option is selected, time to completion will be extended by 12 months and the following three, 1 credit hour work term courses will count toward the free options credit required in this program.

<u>ARTS 3010</u>	<u>Arts Co-operative Option 1</u>	
<u>ARTS 3020</u>	<u>Arts Co-operative Option 2</u>	
<u>ARTS 3030</u>	<u>Arts Co-operative Option 3</u>	
<b>Total Hours</b>		<b>120</b>



## Linguistics Program Transition Plan (revised)

### **Added Material**

**Pathways to completion for continuing students.** As the proposed new program requirements are more flexible than the existing requirements, we anticipate that most continuing students will complete their programs under the new requirements. In that case, the following substitutions can be made:

<b>New requirement</b>	<b>Accommodation for former courses</b>
LING 1000 and LING 1010	The former LING 1200 can be used in place of LING 1000 and LING 1010
Credit hours at the 1000 level	Can be satisfied by any current or former 1000-level LING courses
Credit hours at the 2000 level	Can be satisfied by any current or former 2000-level LING courses, as well as the former LING 1380 <b><u>and the former LING 1420</u></b>
Credit hours at the 3000 level	Can be satisfied by any current or former 3000-level LING courses, as well as the former LING 2200, LING 2420, LING 2620, LING 2720, and LING 2880
Credit hours at the 4000 level	Can be satisfied by any current 4000-level LING courses, as well as the former LING 3120, LING 3140, LING 3400, LING 3820, LING 3840, and LING 3920
Must complete LING 2100	This requirement shall be deemed to be satisfied if the student has completed either the former LING 1380 or the former LING 2420
Must complete LING 2400	This requirement shall be deemed to be satisfied if the student has completed either the former LING 2200 or the former LING 2460

For continuing students who need to complete their program under the existing requirements, the following substitutions can be made:

<b>Existing requirement</b>	<b>Accommodation for new courses</b>
Core courses numbered at the 2000 level	Can be satisfied by the former core courses (LING 2200, LING 2420, LING 2440, LING 2460, LING 2640) and also by LING 2330, LING 3110, and LING 3410
Core courses numbered at the 3000 level	Can be satisfied by the former core courses (LING 3120, LING 3140, LING 3200, LING 3300, LING 3400, LING 3820, LING 3840) and also by LING 3310, LING 3320, LING 3330, LING 3340, and any 4000-level LING courses
One of LING 3200, 3300, 3400 (each 6ch)	Can also be satisfied by any six credit hours from LING 3310, LING 3320, LING 3330, LING 3340, or LING 4300
One of LING 3120 or 3140	Can also be satisfied by either LING 4110 or LING 4410

For continuing students in the joint program in Linguistics (U of M) and ASL/English Interpretation (RRC), the following substitutions can be made:

<b>Existing requirement</b>	<b>New courses to be taken as substitute</b>
LING 2200 (6ch)	Both LING 2400 (3ch) and LING 2500 (3ch)
LING 2460 (3ch)	Any one of LING 3350, LING 3410, LING 3510 (each 3ch)
LING 3300 (6ch)	Both LING 3330 (3ch) and LING 3340 (3ch)
LING 3840 (3ch)	LING 4930 (3ch)

## Medieval and Early Modern Studies

Program modifications:

Modifications to the programs listed below are outlined on the next page:

- **Bachelor of Arts (General Major) in Medieval and Early Modern Studies**
- **Bachelor of Arts (Single Advanced Major) in Medieval and Early Modern Studies**
- **Minor (Concentration) in Medieval and Early Modern Studies**

## Medieval and Early Modern Studies

- The Medieval and Early Modern Studies proposes a modification to their Group 2: Literatures, Art and Languages list. This modification is a result of the Department of English, Theatre, Film & Media deleting ENGL 3020 Milton.

Added Material

Deleted Material

## 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.

Course	Title	Hours
<b>Faculty of Arts</b>		
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
<del>ENGL 3020</del>	<del>Milton</del>	<del>6</del>
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

## Religion

Program modification:

Modifications to the following programs are outlined on the next two pages:

- **Bachelor of Arts (General Major) in Religion**
- **Bachelor of Arts (Single Advanced Major) in Religion**
- **Bachelor of Arts (Double Advanced Major) in Religion**
- **Bachelor of Arts (Single Honours) in Religion**
- **Bachelor of Arts (Double Honours) in Religion**

## Religion

- The Department of Religion proposes a modification to the courses listed in the Religious Traditions list in order to reflect the previous deletion of RLGN 3780 – a course that appears on the Christianity list, but is no longer offered.

### Added Material

### ~~Deleted Material~~

## Religious Traditions

Within the Religion courses required above, students must complete courses from at least three religious tradition categories: Buddhism, Christianity, Hinduism, Islam, Judaism

Religious Traditions are categorized as follows:

### BUDDHISM

Course	Title	Hours
RLGN 2020	Introduction to Buddhism	3
RLGN 3150	Buddhism in East Asia	3
RLGN 3152	Buddhism in the West	3
RLGN 3162	Buddhist Philosophy	3
RLGN 3260	Indian Buddhism	3
RLGN 3266	Readings in Buddhist Texts	3
RLGN 4100	Advanced Studies in Buddhism	3

Course List

### CHRISTIANITY

Course	Title	Hours
RLGN 1350	The History of Eastern Christianity	6
RLGN 2036	Introduction to Christianity	3
RLGN 2040	Early Modern Christianity in a Global Context	3
RLGN 2052	Conservative Christianity in the United States	3
RLGN 2114	Monks, Mystics and Manuscripts in Medieval Christianity	3
RLGN 2170	Introduction to the New Testament	3
RLGN 2520	Eastern Christianity in North America	3
RLGN 2530	Eastern Christianity in the Contemporary World	3
RLGN 2840	The Second Vatican Council	3
RLGN 2850	Contemporary Issues in Roman Catholicism	3
RLGN 3230	Gender, the Body, and Sexuality in Early Christianity	3
RLGN 3870	The Thought of Bernard Lonergan	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
RLGN 3780	Course no longer offered	6
RLGN 4280	Advanced Studies in Early Christianity	3
RLGN 4282	Advanced Studies in Medieval Christianity	3

## **HINDUISM**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
RLGN 2010	Introduction to Hinduism	3
RLGN 3210	Indian Philosophy	3
RLGN 4060	The Yoga Tradition	3
RLGN 4190	Advanced Studies in Hinduism	3

## **ISLAM**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
RLGN 2100	Approaches to the Qur'an	3
RLGN 2778	Introduction to Islam	3
RLGN 2790	Contemporary Islam	3
RLGN 3190	Images of the Prophet Muhammad: Classical and Contemporary Perspectives	3
RLGN 3194	Islamic Philosophy	3
RLGN 4180	Advanced Studies in Islam	3

## **JUDAISM**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
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 2162	Great Jewish Books	3
RLGN 2770	Contemporary Judaism	3
RLGN 3280	Hasidism	3
RLGN 3800	Selected Old Testament Literature and Themes	6
RLGN 3810	The Talmud	3
RLGN 3824	Kabbalah	3

## Sociology and Criminology

### Modifications:

SOC 2292 Understanding Social Research 3 cr 0.0

An overview of the tools social scientists employ to understand, interpret, critique, and conduct research in the social world. Topics include the production of knowledge, the research process, ethical considerations, conceptualization of research problems, measurement, and popular qualitative and quantitative methodologies. Students may not hold credit for SOC 2292 and any of: SOC 2013, ANTH 2013, the former SOC 2290, or the former SOC 2291. Prerequisite: [SOC 1000 or the former SOC 1200 or the former SOC 1201] or [SOC 1211 and SOC 1221].

SOC 2294 Understanding Social Statistics 3 cr 0.0

Focus is on the various statistical procedures sociologists use when analyzing quantitative data. The course introduces students to basic statistical computations and analyses in order to develop an awareness of statistics in social research. Concentration is on what, when and how to apply and interpret relevant statistical techniques in order to answer specific research questions. Students may not hold credit for SOC 2294 and any of: the former SOC 2290 or the former SOC 2291. Prerequisites: SOC 2292 or SOC 2013 or ANTH 2013.

### **NET CHANGE IN CREDIT HOURS: 0.0**

## Women's and Gender Studies

### Introduction:

WOMN 3576 History of Women, Gender, and Sexuality in Canada 3 cr +3.0

This course examines the history of women, gender, and sexuality in Canada's past. Specific topics may include women, gender and sexuality in Indigenous peoples, English and French colonization, nation-building, immigration and urbanization, politics, race, migration and racialization, violence, war, and protest. This course is also offered as HIST 3576. Students may not hold credit for WOMN 3576 and any of: HIST 3576, the former HIST 3570, the former HIST 3572. Prerequisite: 6 credit hours in HIST; or 3 credit hours in Women's and Gender Studies; or written consent of Department Head.

### Modifications:

WOMN 2430 Indigenous Women's Stories 3 cr 0.0

This course will investigate through the media of film and literature, including life writing, fiction, creative non-fiction and poetry, the experiences of Indigenous women in North America, particularly Canada, as articulated in their own voices. Also offered as INDG 2430. Students may not hold credit for WOMN 2430 and any of: INDG 2430, the former NATV 2430. Prerequisite: one of WOMN 1500, WOMN 1600, INDG 1200 (the former NATV 1200), INDG 1220 (the former NATV 1220), or INDG 1240 (the former NATV 1240), or written consent from either the Women's and Gender Studies coordinator or Indigenous Studies department head.

WOMN 2630 Indigenous Feminisms 3 cr 0.0

With reference to scholarship, activism, and literary, narrative, and/or creative works, this course critically engages differences and shared priorities across Indigenous feminisms past and present. Also offered as INDG 2630. Students may not hold credit for WOMN 2630 and any of: INDG 2630, the former NATV 2630. Prerequisite: one of WOMN 1500, WOMN 1600, INDG

1200 (the former NATV 1200), INDG 1220 (the former NATV 1220), or INDG 1240 (the former NATV 1240), or written consent from either the Women's and Gender Studies coordinator or Indigenous Studies department head.

**NET CHANGE IN CREDIT HOURS: +3.0**

Program modifications:

Modifications to the following programs are outlined on the next 2 pages:

- **Bachelor of Arts (General Major) in Women's and Gender Studies**
- **Bachelor of Arts (Single Advanced Major) in Women's and Gender Studies**
- **Bachelor of Arts (Double Advanced Major) in Women's and Gender Studies**
- **Bachelor of Arts (Single Honours) in Women's and Gender Studies**
- **Bachelor of Arts (Double Honours) in Women's and Gender Studies**
- **Minor (Concentration) in Women's and Gender Studies**



## Women's and Gender Studies

- The Department of Women's and Gender Studies proposes the modification to list A in response to changes proposed by the Department of Native Studies, Department of History.

These proposed modifications impact the following programs: BA Single Honours, BA Double Honours, BA Single Advanced Major, BA Double Advanced Major, BA General, and Minor (Concentration)

### Added Material

### ~~Deleted Material~~

## List A

Course	Title	Hours
<b>Faculty of Arts</b>		
Anthropology:		
ANTH 3320	Women in Cross-Cultural Perspective	3
ANTH 3321	Femmes, sociétés et cultures	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
<del>GRMN 3280</del>	<del>Sex, Gender and Cultural Politics in the German-Speaking World (B)</del>	<del>3</del>
<u>GRMN 3282</u>	<u>Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C)</u>	<u>3</u>
History:		
HIST 2400	History of Human Rights and Social Justice in the Modern World (M)	3
<del>HIST 3572</del>	<del>The History of Women, Gender, and Sexuality in Canada (C)</del>	<del>6</del>
HIST 3760	Problems in United States History (A) (Acceptable for credit only when the topic is "Gender and Sexuality in 20th Century America.")	3
HIST 4060	Gender History in Canada (C)	6
<u>Indigenous Native Studies:</u>		
<u>INDG NATV 2430</u>	Indigenous Women's Stories	3
<u>INDG NATV 3360</u>	Indigenous Women of Canada	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
INDG NATV 3380	Gender and Indigenous 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
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	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	3
<b>School of Art</b>		
FAAH 2110	Women and Art	3
FAAH 4090	Seminar on Contemporary Issues in Art (Acceptable for credit only when the topic is "Women Artists")	3
<b>Clayton H. Riddell Faculty of Environment, Earth, and Resources</b>		
GEOG 4280	Gender and the Human Environment	3
<b>Marcel A. Desautels Faculty of Music</b>		
MUSC 4130	History of Women in Music	3
<b>Faculty of Nursing</b>		
NURS 3330	Women and Health	3

Faculty of Engineering

Faculty of Engineering

Program modifications:

Modifications to the **Minor in Geological Sciences** (renamed as: Minor in Earth Sciences) are described below:

### **Current Calendar Description:**

#### **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

### **Proposed Calendar Description:**

#### **Earth Sciences Minor**

The Minor in Earth 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 Earth Sciences

## Biosystems Engineering

Program modifications:

Modifications to the programs listed below are outlined on the next page:

- **Bachelor of Science in Engineering (Biosystems)**
- **Bachelor of Science in Engineering (Biosystems), Co-operative Education Option**

CourseLeaf Reference:  
<https://catalog.umanitoba.ca/undergraduate-studies/engineering/biosystems-engineering/biosystems-engineering-bsc/>

### *Indigenous Knowledge Courses*

Course No.		Credit Hours
<b>INDG 1200</b>	<b>Indigenous Peoples in Canada</b>	<b>6</b>
<b>INDG 1220</b>	<b>Indigenous Peoples in Canada Part 1</b>	<b>3</b>
<b>INDG 1240</b>	<b>Indigenous Peoples in Canada Part 2</b>	<b>3</b>
<del>NATV 1200</del>	<del>Indigenous Peoples in Canada</del>	<del>6</del>
<del>NATV 1220</del>	<del>Indigenous Peoples in Canada Part 1</del>	<del>3</del>
<del>NATV 1240</del>	<del>Indigenous Peoples in Canada Part 2</del>	<del>3</del>
<b>INDG 2012</b> <del>NATV 2012</del> or HIST 2010	Indigenous History in Canada	3
<b>INDG 2020</b> <del>NATV 2020</del> or HIST 2020	The Métis in Canada	3
POLS 2802	Introduction to Indigenous Politics	3
POLS 3870	Politics of Indigenous-Settler Relations	3

Students admitted to Biosystems Engineering in Fall 2021 who have completed three complementary studies elective courses prior to admission to the program, may use one of those courses in place of the Indigenous knowledge course.

## Civil Engineering

Program modifications:

Modifications to the programs listed below are outlined on the next page:

- **Bachelor of Science in Engineering (Civil)**
- **Bachelor of Science in Engineering (Civil), Co-operative Education Option**

CourseLeaf Reference:  
<https://catalog.umanitoba.ca/undergraduate-studies/engineering/civil-engineering/civil-engineering-bsc/>

### Indigenous Knowledge Courses

Course No.	Course Name	Credit Hours
<b>INDG 1200</b>	<b>Indigenous Peoples in Canada</b>	<b>6</b>
<b>INDG 1220</b>	<b>Indigenous Peoples in Canada Part 1</b>	<b>3</b>
<b>INDG 1240</b>	<b>Indigenous Peoples in Canada Part 2</b>	<b>3</b>
<del>NATV 1200</del>	<del>Indigenous Peoples in Canada</del>	<del>6</del>
<del>NATV 1220</del>	<del>Indigenous Peoples in Canada Part 1</del>	<del>3</del>
<del>NATV 1240</del>	<del>Indigenous Peoples in Canada Part 2</del>	<del>3</del>
<b>INDG 2012</b> <del>NATV 2012</del> or HIST 2010	Indigenous History in Canada	3
<b>INDG 2020</b> <del>NATV 2020</del> or HIST 2020	The Métis in Canada	3
POLS 2802	Introduction to Indigenous Politics	3
POLS 3870	Politics of Indigenous-Settler Relations	3
ENG 4100	Contemporary Topics In Engineering Practice (See Note 1)	3

## Mechanical Engineering

### Modifications:

MECH 2150 Mechanical Engineering Modelling and Numerical Methods 4 cr 0.0  
(Lab required) 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 with MATH 2120. Prerequisites: COMP 1012 or COMP 1013. Pre- or corequisite: MATH 2132.

MECH 2272 Engineering Materials 1 4 cr 0.0  
(Lab required) 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. May not be held with MECH 2270, MECH 2290 or MECH 3540. Prerequisites: [CHEM 2240 or [(CHEM 1110 or CHEM 1111) and CHEM 1126] or the former CHEM 1310 or the former CHEM 1311] and [MECH 2222 or the former MECH 2220].

MECH 3502 Stress Analysis and Design 4 cr 0.0  
(Lab required) Strength and stability of columns, torsion of thin-walled members, unsymmetric loading and shear centres, beam deflection and energy methods. May not be held with MECH 2220 or MECH 3500. Prerequisites: MECH 2222 (formerly MECH 2220), MATH 2130 (formerly MATH 2110) and MECH 2112.

### **NET CHANGE IN CREDIT HOURS: 0.0**

### Program modifications:

Modifications to the programs listed below are outlined on the next page:

- **Bachelor of Science in Engineering (Mechanical)**
- **Bachelor of Science in Engineering (Mechanical), Co-operative Education Option**



CourseLeaf Reference:  
<https://catalog.umanitoba.ca/undergraduate-studies/engineering/mechanical-engineering/mechanical-engineering-bsc/>

### Indigenous Knowledge Courses

Course No.		Credit Hours
<b>INDG 1200</b>	<b>Indigenous Peoples in Canada</b>	<b>6</b>
<b>INDG 1220</b>	<b>Indigenous Peoples in Canada Part 1</b>	<b>3</b>
<b>INDG 1240</b>	<b>Indigenous Peoples in Canada Part 2</b>	<b>3</b>
<del>NATV 1200</del>	<del>Indigenous Peoples in Canada</del>	<del>6</del>
<del>NATV 1220</del>	<del>Indigenous Peoples in Canada Part 1</del>	<del>3</del>
<del>NATV 1240</del>	<del>Indigenous Peoples in Canada Part 2</del>	<del>3</del>
<b>INDG 2012</b> <del>NATV 2012</del> or HIST 2010	Indigenous History in Canada	3
<b>INDG 2020</b> <del>NATV 2020</del> or HIST 2020	The Métis in Canada	3
POLS 2802	Introduction to Indigenous Politics	3
POLS 3870	Politics of Indigenous-Settler Relations	3

Faculty of Environment, Earth, and Resources

Earth Sciences

Modifications to the following programs are detailed on the next, 8 pages:

- **Bachelor of Science in Geological Sciences (Honours) - Geophysics**
- **Bachelor of Science in Geological Sciences (Major) – Geophysics**

# Geophysics, B.Sc.G.Sc. Honours

## Degree Requirements

<b>Year 1</b>	<b>Hours</b>
<u>GEOL 1340</u> The Dynamic Earth (B)	3
Select one of the following: <sup>1</sup>	3
<u>GEOL 1400</u> Time-Trekker's Travelog: Our Evolving Earth	
<u>GEOL 1410</u> Natural Disasters and Global Change	
<u>GEOL 1420</u> Exploring the Planets	
Select one of the following:	3
<u>PHYS 1050</u> Physics 1: Mechanics (B)	
<u>PHYS 1020</u> General Physics 1 (B+)	
Select one of the following:	3
<u>PHYS 1070</u> Physics 2: Waves and Modern Physics (B)	
<u>PHYS 1030</u> General Physics 2 (B+)	
<u>MATH 1210</u> Techniques of Classical and Linear Algebra <sup>2</sup>	3
<u>CHEM 1100</u> Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1120</u> Introduction to Chemical Techniques	3
Select one of the following:	3
<u>MATH 1510</u> Applied Calculus 1 (B) <sup>2</sup>	
<u>MATH 1500</u> Introduction to Calculus (B)	
Select one of the following:	3
<u>MATH 1710</u> Applied Calculus 2 (B) <sup>2</sup>	
<u>MATH 1700</u> Calculus 2 (B)	
<b>Hours</b>	<b>27</b>
<b>Year 2</b>	
<u>GEOL 2060</u> Introductory Geophysics	3
<u>GEOL 2440</u> Structural Geology 1	3
<u>GEOL 2500</u> Introduction to Mineralogy	3
<u>GEOL 2520</u> Igneous and Metamorphic Petrology	3
<u>GEOL 2530</u> Introductory Sedimentary Petrology and Stratigraphy	3
<u>GEOL 2800</u> Optics and Spectroscopy of Minerals	3
<u>MATH 2130</u> Engineering Mathematical Analysis 1 <sup>4</sup>	3
<u>MATH 2132</u> Engineering Mathematical Analysis 2 <sup>4</sup>	3
3 credit hours from the Faculty of Arts <sup>6</sup>	3
<b>Hours</b>	<b>27</b>
<b>Years 3-4</b>	
<u>GEOL 3130</u> Communication Methods in the Geological Sciences	3
<u>GEOL 3740</u> Exploration Seismology	3
<u>GEOL 3810</u> Applied Geophysics	3

<u>GEOL 4250</u> Theory and Application of Geophysical Inversion Methods	3
<u>GEOL 4320</u> Physics of the Earth: Seismology and Heat Flow	3
<u>GEOL 4330</u> Physics of the Earth: Geomagnetism and Gravity	3
<u>GEOL 4670</u> Global Tectonics	3
<u>GEOL 4740</u> Geophysics Field Course <sup>5</sup>	6
<u>GEOL 4810</u> Geophysical Data Analysis	3
<u>GEOL 4870</u> Honours Thesis	6
<u>COMP 1012</u> Computer Programming for Scientists and Engineers	3
<u>PHYS 2600</u> Electromagnetic Field Theory	3
<u>MATH 3132</u> Engineering Mathematical Analysis 3 <sup>4</sup>	3
Select 3 credit hours of <u>Geological Sciences-listed Physical science course electives</u> <u>Geophysics Electives from List P</u>	3
Select 6 credit hours of <u>Geological Sciences-listed Earth science course electives</u> <u>Geophysics Electives from List B</u>	6
3 credit hours from the Faculty of Arts <sup>6</sup>	3
Enough elective credit to total 120 credit hours for the program	9
<b>Hours</b>	<b>66</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> GEOL 1400 is highly recommended to be taken in Year 1, but GEOL 1410 or GEOL 1420 may be substituted.

<sup>2</sup> MATH 1690 may be taken in place of MATH 1230 or 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.

<sup>3</sup> The former CHEM 1300 may be used in lieu of CHEM 1100 and CHEM 1120. CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120.

<sup>4</sup> MATH 2720 may be taken in place of MATH 2130. PHYS 2496 may be taken in place of MATH 2132. PHYS 3496 may be taken in place of MATH 3132. Normally, students select (MATH 2130, MATH 2132, and MATH 3132) or (MATH 2720, PHYS 2496, and PHYS 3496).

<sup>5</sup> GEOL 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.

<sup>6</sup> The course selected must meet the University's Written English requirement.

The courses required in this program will satisfy the University Mathematics Requirement. **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)

**Notes:**

- To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as prerequisite to a further course in Geological Earth 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 in Aurora
- 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.

## **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:~~

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<del>GEOL 4250</del>	<del>Theory and Application of Geophysical Inversion Methods</del>	<del>3</del>
<del>GEOL 4320</del>	<del>Physics of the Earth: Seismology and Heat Flow</del>	<del>3</del>
<del>GEOL 4330</del>	<del>Physics of the Earth: Geomagnetism and Gravity</del>	<del>3</del>
<del>GEOL 4920</del>	<del>Technical Report</del>	<del>3</del>

### **LIST EARTH SCIENCE COURSE ELECTIVES 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:

<b>Course</b>	<b>Title</b>	<b>Hours</b>
GEOL 2390	Environmental Geology	3
GEOL 2570	Energy and Mineral Resources	3
GEOL 2770	Principles of Inorganic Geochemistry	3
GEOL 3110	Petrogenesis of Igneous Rocks	3
GEOL 3420	Engineering Geology	3
GEOL 3440	Structure and Metamorphism	3
GEOL 3450	Hydrogeology	3
GEOL 3490	Glacial Geology and Geomorphology	3
GEOL 3750	Geology and Geophysics of the Planets	3
GEOL 3900	Sedimentology	3
GEOL 3910	Introduction to Field Mapping	3
GEOL 4270	Advanced Studies in Earth Sciences	3
GEOL 4300	Mineral Deposits	3
GEOL 4360	Mineral Exploration Techniques	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>GEOL 4370</u>	Global Change	3
<u>GEOL 4380</u>	Mineral Resource Development	3
<u>GEOL 4520</u>	Petroleum Geology	3
<u>GEOL 4890</u>	Basin Analysis	3
<u>GEOL 4910</u>	Advanced Field Mapping	3
<u>ENVR 2550</u>	Environmental Chemistry	3
<u>GEOG 2300</u>	Atmospheric Thermodynamics, Clouds and Precipitation (PS)	3
<u>GEOG 2310</u>	Introduction to Process Hydrology (PS)	3
<u>GEOG 2930</u>	Introduction to Oceanography	3
<u>GEOG 3200</u>	Introduction to Remote Sensing (TS)	3
<u>GEOG 3310</u>	Atmospheric Dynamics, Storms and Radar (PS)	3
<u>GEOG 3320</u>	Introduction to Microclimates and Micrometeorology (PS)	3
<u>GEOG 3730</u>	Geographic Information Systems (TS)	3

Any ~~List A or Physical science course elective~~<sup>P</sup> not already taken, or any advanced level ~~Geological-Earth~~ Sciences, Physics or Mathematics course(s) approved by department

### **LIST PHYSICAL SCIENCE COURSE ELECTIVES LIST<sup>P</sup> ELECTIVES**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>ASTR 2000</u>	<u>Foundations of Astrophysics</u>	<u>3</u>
<u>ASTR 3180</u>	<u>STARS</u>	<u>3</u>
<u>PHYS 2152</u>	Modern Physics for Engineers	3
<del>CHEM 2290</del>	<del>Chemical Energetics and Dynamics: Macroscopic Descriptions</del>	<del>3</del>
<u>CHEM 2600</u>	<u>Physical Chemistry 1</u>	<u>3</u>
<u>CHEM 3600</u>	<u>Physical Chemistry 2</u>	<u>3</u>
<u>PHYS 2260</u>	Optics	3
<u>PHYS 2610</u>	Circuit Theory and Introductory Electronics	3
<u>PHYS 2650</u>	Classical Mechanics 1	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
<del>PHYS 3180</del>	<del>Stars</del>	<del>3</del>
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>MECH 2262</u>	Fundamentals of Fluid Mechanics	4

Or alternate physical science course(s) approved by department

# Geophysics, B.Sc.G.Sc. Major

## Degree Requirements

<b>Year 1</b>	<b>Hours</b>
<u>GEOL 1340</u> The Dynamic Earth (C+)	3
Select one of the following: <sup>1</sup>	3
<u>GEOL 1400</u> Time-Trekker's Travelog: Our Evolving Earth	
<u>GEOL 1410</u> Natural Disasters and Global Change	
<u>GEOL 1420</u> Exploring the Planets	
Select one of the following:	3
<u>PHYS 1050</u> Physics 1: Mechanics (C)	
<u>PHYS 1020</u> General Physics 1 (C+)	
Select one of the following:	3
<u>PHYS 1070</u> Physics 2: Waves and Modern Physics (C)	
<u>PHYS 1030</u> General Physics 2 (C+)	
<u>MATH 1210</u> Techniques of Classical and Linear Algebra <sup>2</sup>	3
<u>CHEM 1100</u> Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1120</u> Introduction to Chemical Techniques	3
Select one of the following:	3
<u>MATH 1510</u> Applied Calculus 1 (C+) <sup>2</sup>	
<u>MATH 1500</u> Introduction to Calculus (C+)	
Select one of the following:	3
<u>MATH 1710</u> Applied Calculus 2 (C) <sup>2</sup>	
<u>MATH 1700</u> Calculus 2 (C)	
<b>Hours</b>	<b>27</b>
<b>Year 2</b>	
<u>GEOL 2060</u> Introductory Geophysics	3
<u>GEOL 2440</u> Structural Geology 1	3
<u>GEOL 2500</u> Introduction to Mineralogy	3
<u>GEOL 2520</u> Igneous and Metamorphic Petrology	3
<u>GEOL 2530</u> Introductory Sedimentary Petrology and Stratigraphy	3
<u>GEOL 2800</u> Optics and Spectroscopy of Minerals	3
<u>MATH 2130</u> Engineering Mathematical Analysis 1 <sup>4</sup>	3
<u>MATH 2132</u> Engineering Mathematical Analysis 2 <sup>4</sup>	3
Select 3 credit hours from the Faculty of Arts <sup>6</sup>	3
<b>Hours</b>	<b>27</b>
<b>Years 3-4</b>	
<u>GEOL 3130</u> Communication Methods in the Geological Sciences	3
<u>GEOL 3740</u> Exploration Seismology	3
<u>GEOL 3810</u> Applied Geophysics	3

<u>GEOL 4670</u> Global Tectonics	3
<u>GEOL 4740</u> Geophysics Field Course <sup>5</sup>	6
<u>GEOL 4810</u> Geophysical Data Analysis	3
<u>COMP 1012</u> Computer Programming for Scientists and Engineers	3
<u>PHYS 2600</u> Electromagnetic Field Theory	3
<u>MATH 3132</u> Engineering Mathematical Analysis 3 <sup>4</sup>	3
Select 9 credit hours of <u>Geological Sciences listed</u> Geophysics <u>course Electives</u> <u>from List A</u>	9
Select 3 credit hours of <u>Geological Sciences listed -Physical science course electives</u> <u>Geophysics Electives from List P</u>	3
Select 6 credit hours of <u>Geological Sciences listed Earth science course electives</u> <u>Geophysics Electives from List B</u>	6
Select 3 credit hours from the Faculty of Arts <sup>6</sup>	3
Select enough elective credit to total 120 credit hours for the program	15
<b>Hours</b>	<b>66</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> GEOL 1400 is highly recommended to be taken in Year 1, but GEOL 1410 or GEOL 1420 may be substituted.

<sup>2</sup> MATH 1690 may be taken in place of MATH 1230 or 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.

<sup>3</sup> The former CHEM 1300 may be used in lieu of CHEM 1100 and CHEM 1120. CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120.

<sup>4</sup> MATH 2720 may be taken in place of MATH 2130. PHYS 2496 may be taken in place of MATH 2132. PHYS 3496 may be taken in place of MATH 3132. Normally, students select (MATH 2130, MATH 2132, and MATH 3132) or (MATH 2720, PHYS 2496, and PHYS 3496).

<sup>5</sup> GEOL 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.

<sup>6</sup> The course selected must meet the University's Written English requirement.

The courses required in this program will satisfy the University Mathematics Requirement. **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)

**Notes:**

- To fulfil prerequisite requirements, a grade of 'C' must be achieved in any course stipulated as prerequisite to a further course in Geological-Earth 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](#) in Aurora
- 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.

## **Geological Sciences-Geophysics Electives Lists A, B and P**

### **LIST-GEOPHYSICS COURSE ELECTIVES LISTA-ELECTIVES**

- Major students must complete a minimum of 9 credit hours from the following courses:

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>GEOL 4250</u>	Theory and Application of Geophysical Inversion Methods	3
<u>GEOL 4320</u>	Physics of the Earth: Seismology and Heat Flow	3
<u>GEOL 4330</u>	Physics of the Earth: Geomagnetism and Gravity	3
<u>GEOL 4920</u>	Technical Report	3

### **EARTH SCIENCE COURSE ELECTIVES LISTLIST 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:

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>GEOL 2390</u>	Environmental Geology	3
<u>GEOL 2570</u>	Energy and Mineral Resources	3
<u>GEOL 2770</u>	Principles of Inorganic Geochemistry	3
<u>GEOL 3110</u>	Petrogenesis of Igneous Rocks	3
<u>GEOL 3420</u>	Engineering Geology	3
<u>GEOL 3440</u>	Structure and Metamorphism	3
<u>GEOL 3450</u>	Hydrogeology	3
<u>GEOL 3490</u>	Glacial Geology and Geomorphology	3
<u>GEOL 3750</u>	Geology and Geophysics of the Planets	3
<u>GEOL 3900</u>	Sedimentology	3
<u>GEOL 3910</u>	Introduction to Field Mapping	3
<u>GEOL 4270</u>	Advanced Studies in Earth Sciences	3
<u>GEOL 4300</u>	Mineral Deposits	3
<u>GEOL 4360</u>	Mineral Exploration Techniques	3
<u>GEOL 4370</u>	Global Change	3
<u>GEOL 4380</u>	Mineral Resource Development	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>GEOL 4520</u>	Petroleum Geology	3
<u>GEOL 4890</u>	Basin Analysis	3
<u>GEOL 4910</u>	Advanced Field Mapping	3
<u>ENVR 2550</u>	Environmental Chemistry	3
<u>GEOG 2300</u>	Atmospheric Thermodynamics, Clouds and Precipitation (PS)	3
<u>GEOG 2310</u>	Introduction to Process Hydrology (PS)	3
<u>GEOG 2930</u>	Introduction to Oceanography	3
<u>GEOG 3200</u>	Introduction to Remote Sensing (TS)	3
<u>GEOG 3310</u>	Atmospheric Dynamics, Storms and Radar (PS)	3
<u>GEOG 3320</u>	Introduction to Microclimates and Micrometeorology (PS)	3
<u>GEOG 3730</u>	Geographic Information Systems (TS)	3

Any [Geophysics course elective List A](#) or [Physical science course elective P](#) not already taken, or any advanced level [Geological Earth](#) Sciences, Physics or Mathematics course(s) approved by department

### **PHYSICAL SCIENCE COURSE ELECTIVES LIST LIST P ELECTIVES**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>ASTR 2000</u>	<a href="#">Foundations of Astrophysics</a>	<u>3</u>
<u>ASTR 3180</u>	<a href="#">STARS</a>	<u>3</u>
<u>PHYS 2152</u>	Modern Physics for Engineers	3
<u>CHEM 2290</u>	<del><a href="#">Chemical Energetics and Dynamics: Macroscopic Descriptions</a></del>	<del>3</del>
<u>CHEM 2600</u>	<a href="#">Physical Chemistry 1</a>	<u>3</u>
<u>CHEM 3600</u>	<a href="#">Physical Chemistry 2</a>	<u>3</u>
<u>PHYS 2260</u>	Optics	3
<u>PHYS 2610</u>	Circuit Theory and Introductory Electronics	3
<u>PHYS 2650</u>	Classical Mechanics 1	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
<u>PHYS 3180</u>	<del><a href="#">Stars</a></del>	<del>3</del>
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>MECH 2262</u>	Fundamentals of Fluid Mechanics	4

Or alternate physical science course(s) approved by department

## Environment and Geography

### Introduction:

ENVR 4850 Wildlife Management 3 cr +3.0  
(Lab required) This course provides students with an understanding of relevant theory and practice in wildlife management. Topical management issues will be studied, selected through consultation with government and NGOs in Manitoba. May not be held with ENVR 4000 when titled "Wildlife Management." There will be field trips and lab activities. Prerequisite: Permission of Instructor.

### Modification:

GEOG 2640 Geography of Culture and Inequality 3 cr 0.0  
An introduction to the study of cultural geography, with a specific focus on relationships of inequality and attempts to overcome them. Topics examined include globalization, landscapes and the environment, public space, gender and sexuality, colonialism and imperialism, and mobility. Prerequisite: GEOG 1280 or GEOG 1281, GEOG 1700 or GPE 1700, or permission of the instructor.

**NET CHANGE IN CREDIT HOURS: +3.0**

## Faculty of Health Sciences

### Interdisciplinary Health Program

### Deletion:

HEAL 4500 Injury Prevention Across the Life Course 3 cr -3.0

### Modification:

HEAL 3610 - Mechanisms of Disease 1 3 cr 0.0  
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: BGEN 2000 and (one of CHEM 2740, CHEM 2720, CHEM 2721) and (one of CHEM 2700, CHEM 2701, MBIO 2700, MBIO 2701, CHEM 2730, MBIO 2730, the former CHEM 2360, the former CHEM 2361, the former MBIO 2360, the former MBIO 2361, the former CHEM 2770, the former MBIO 2770).

**NET CHANGE IN CREDIT HOURS: -3.0**

Program modifications:

Modifications to the programs listed below are detailed on the next 17 pages:

- **Bachelor of Health Sciences**
- **Bachelor of Health Studies**
  - **Health Policy, Planning, and Evaluation Concentration**
  - **Health Promotion and Education Concentration**
  - **Family Health Concentration**

## Bachelor of Health Sciences Degree Program Chart

The Bachelor of Health Sciences (BHSc) 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 an Academic Advisor in the Interdisciplinary Health Program in order to plan their programs.

Year 1 <sup>1</sup>	Year 2 <sup>1</sup>	Year 3 <sup>1</sup>	Year4 <sup>1</sup>
30 credit hours <ul style="list-style-type: none"> <li>• BIOL 1410</li> <li>• CHEM 1100<sup>2</sup></li> <li>• CHEM 1110<sup>2</sup></li> <li>• CHEM 1120<sup>2</sup></li> <li>• HEAL 1500<sup>3</sup></li> <li>• HEAL 1502<sup>3</sup></li> <li>• <b>INDG 1220 OR INDG 1240</b></li> <li>• <del>NATV 1220 OR NATV 1240</del></li> <li>• PSYC 1200</li> <li>• <u>OR</u> SOC 1000</li> <li>• STAT 1000</li> </ul> 3 credit hours of Free Electives if SOC 1000 is taken	30 credit hours <ul style="list-style-type: none"> <li>• BGEN 2000</li> <li>• CHEM 2730</li> <li>• CHEM 2740</li> <li>• HEAL 2600</li> <li>• HNSC 1210</li> <li>• HNSC 2000<sup>7</sup> <u>OR</u></li> <li>• PSYC 2250</li> <li>• IMMU 2000</li> <li>• PHGY 1030 (6)</li> </ul> 3 credit hours of Free Electives	30 credit hours <ul style="list-style-type: none"> <li>• BGEN 3010<sup>4</sup></li> <li>• FMLY 3750</li> <li>• FMLY 3780 <u>OR</u></li> <li>• FMLY 3790</li> <li>• HEAL 3000</li> <li>• HEAL 3600</li> <li>• HEAL 3610</li> <li>• PHAC 3000</li> <li>• PHIL 2740<sup>6</sup></li> </ul> 3 credit hours of Free Electives 3 credit hours of Program Electives <sup>5</sup>	30 credit hours <ul style="list-style-type: none"> <li>• HEAL 4600</li> <li>• HEAL 4620</li> <li>• HEAL 4630</li> <li>• PHAC 4030</li> <li>• PHAC 4040</li> </ul> 9 credit hours of Free Electives 6 credit hours of Program Electives <sup>5</sup>

<sup>1</sup> Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart.

<sup>2</sup> CHEM 1300 and CHEM 1310 may be used as course equivalents if completed prior to September 2021.

<sup>3</sup> BIOL 1020 and BIOL 1030 may be used as course equivalents if completed prior to September 2021.

<sup>4</sup> Students interested in applying to the MSc in Genetic Counselling must take BGEN 3022 and BGEN 3024 instead of BGEN 3010.

<sup>5</sup> Of the 9 credit hours of program electives, 6 credit hours must be selected from the science elective list.

<sup>6</sup> **PHIL 2290 (6) may be used in place of PHIL 2740 and will also satisfy the requirement of 3 credit hours of Free Electives.**

<sup>7</sup> **Students are advised that they must complete 3 credit hours from the Written English list within their first 60 credit hours, if they do not plan to take HNSC 2000.**

## Bachelor of Health Sciences Elective List

**Please note, a course completed as a core requirement may not also be used as an elective.**

### **Science Electives**

Faculty of Agricultural and Food Sciences

AGRI 2180 Introductory Toxicology

FOOD 4150 Food Microbiology 1

HNSC 2130 Nutrition through the Life Cycle

Clayton H Riddell Faculty of Environment Earth and Resources

ENVR 2180 Introductory Toxicology

Max Rady College of Medicine

BGEN 3022 Introduction to Human Genetics A

BGEN 3024 Introduction to Human Genetics B

Faculty of Science

BIOL 2380 Introductory Toxicology

BIOL 3290 Medicinal and Hallucinogenic Plants

CHEM 2100 Organic Chemistry 1: Foundations of Organic Chemistry

CHEM 2110 Organic Chemistry 2: Foundations of Organic Synthesis

CHEM 2122 Experimental Organic Chemistry

CHEM 2750 Elements of Biochemistry II

MATH 1230 Differential Calculus

MATH 1500 Introduction to Calculus

MBIO 1220 Essentials of Microbiology

MBIO 2420 Introductory Virology

MBIO 2750 Elements of Biochemistry II

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

STAT 3000 Applied Linear Statistical Models

### **Social Sciences Electives**

Faculty of Arts

ECON 1010 Introduction to Microeconomic Principles

ECON 1210 Introduction to Canadian Economic Issues and Policies  
ECON 3690 Economic Issues of Health Policy  
ECON 3692 Economic Determinants of Health

**INDG 1220 Indigenous Peoples in Canada, Part 1**  
**INDG 1240 Indigenous Peoples in Canada, Part 2**  
**INDG 2020 The Métis in Canada**  
**INDG 2110 Introduction to Indigenous Community Development**  
**INDG 3100 Indigenous Healing Ways**  
**INDG 3240 Indigenous Medicine and Health**  
**INDG 3330 Indigenous People, Science and the Environment**  
~~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~~

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 1000 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

Faculty of Kinesiology and Recreation Management  
KIN 2610 Health and Physical Aspects of Aging

KPER 1200 Physical Activity, Health and Wellness

REC 2650 The Social Aspects of Aging

Rady Faculty of Health Sciences

HEAL 1600 Health and Health Professions  
~~HEAL 4500 Injury Prevention Across the Life Course~~  
**HEAL 4640 Mechanisms of Disease 3**  
HEAL 4650 Selected Topics in Interdisciplinary Health

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

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 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 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

Faculty of Social Work  
SWRK 1310 Introduction to Social Welfare Policy Analysis  
SWRK 2650 The Social Aspects of Aging

## Bachelor of Health Studies Degree Program Chart

The Bachelor of Health Studies (B.H.St.) Degree consists of 120 credit hours. There are three concentrations available, (1) Health Policy, Planning, and Evaluation, (2) Health Promotion and Education, and (3) Family Health. 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 <sup>1</sup>	Year 2 <sup>1</sup>	Year 3 <sup>1</sup>	Year 4 <sup>1</sup>
30 credit hours • ANTH 1210 or ANTH 1220 • FMLY 1012 • HEAL 1500 <sup>2</sup> • HEAL 1502 <sup>2</sup> • PSYC 1200 • SOC 1000 • STAT 1000  3 credit hours of Concentration Electives  3 credit hours of Free Electives	30 credit hours • ECON 1210 <u>OR</u> ECON 1220 • GMGT 1010 <u>OR</u> GMGT 2070 • HEAL 2600 • HNSC 1210 • HNSC 2000 <sup>5</sup> <u>OR</u> PSYC 2250 • <b>INDG 1220 <u>OR</u> INDG 1240 <u>OR</u> INDG 3240</b> • <del>NATV 1220 <u>OR</u> NATV 1240 <u>OR</u> NATV 3240</del>  6 credit hours of Concentration Electives  3 credit hours of Program Electives <sup>3</sup>  3 credit hours of Free Electives	30 credit hours • FMLY 3750 • FMLY 3780 • FMLY 3790 • HEAL 3000 • HEAL 3600 • PHIL 2740 <sup>4</sup> • SOC 2490  3 credit hours of Concentration Electives  6 credit hours of Program Electives <sup>3</sup>	30 credit hours • HEAL 4600 • HEAL 4610  6 credit hours of Concentration Electives  12 credit hours of Program Electives <sup>3</sup>  6 credit hours of Free Electives

**Notes:**

<sup>1</sup> Equivalent courses offered through Université de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart.

<sup>2</sup> BIOL 1020 and BIOL 1030 may be used as course equivalents if courses were completed prior to September 2021.

<sup>3</sup> Of the 21 credit hours of program electives, 9 must be at the 3000-4000 level.

<sup>4</sup> **PHIL 2290 (6) may be used in place of PHIL 2740 and will also satisfy the requirement of 3 credit hours of Free Electives.**

<sup>5</sup> **Students are advised that they must complete 3 credit hours from the Written English list within their first 60 credit hours, if they do not plan to take HNSC 2000**

## Bachelor of Health Studies Elective List

Please note, a course completed as a core requirement may not also be used as an elective.

Faculty of Agricultural and Food Sciences

ABIZ 1010 Economics of World Food Issues and Policies

ABIZ 3550 Environmental Policy

FOOD 4150 Food Microbiology 1

HNSC 1200 Food, Facts and Fallacies

HNSC 2130 Nutrition through the Life Cycle

HNSC 3350 Culture and Food Patterns

HNSC 3870 Food Geographies (cross-listed with GEOG 3870)

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 2510 Anthropology of Economic Systems

ANTH 2550 Culture and the Individual

ANTH 2560 Anthropology of Illness

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

ECON 2350 Community Economic Development

ECON 2362 Economics of Gender

ECON 3690 Economic Issues of Health Policy

ECON 3692 Economic Determinants of Health

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

**INDG 1220 Indigenous Peoples in Canada, Part 1**  
**INDG 1240 Indigenous Peoples in Canada, Part 2**  
**INDG 1250 Introductory Cree 1**  
**INDG 1270 Introductory Anishinaabemowin (Ojibwe) 1**  
**INDG 1300 Selected Topics in Introductory Indigenous Language**  
**INDG 2020 The Métis in Canada**  
**INDG 2040 The Dakota, Lakota, and Nakota Nations**  
**INDG 2060 Eastern Woodlands Encounters Columbus to Confederation**  
**INDG 2070 Cree, Innu, and Dene Nations**  
**INDG 2080 Inuit Society and Culture**  
**INDG 2100 Indigenous Spirituality**  
**INDG 2110 Introduction to Indigenous Community Development**  
**INDG 3100 Indigenous Healing Ways**  
**INDG 3150 Residential School Literature**  
**INDG 3240 Indigenous Medicine and Health**  
**INDG 3330 Indigenous People, Science and the Environment**  
~~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 1300 Selected Topics in Introductory Indigenous Language~~  
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~~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 2290 Ethics and Society~~

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  
PSYC 2530 Psychology of Personality  
PSYC 2540 Social Psychology  
PSYC 3070 Adult Development  
PSYC 3130 Introduction to Health Psychology  
PSYC 3150 Behavioural Modification Applications  
PSYC 3160 Perception and Attention  
PSYC 3310 Adolescent Development  
PSYC 3390 Thinking  
PSYC 3430 Sensory Processes  
PSYC 3470 Dyadic Relations  
PSYC 3490 Individual Differences  
PSYC 3580 Language and Thought  
PSYC 3630 Psychological Measurement and Assessment

RLGN 1322 Introduction to Eastern Religions  
RLGN 1324 Introduction to Western Religions  
RLGN 1410 Death and Concepts of the Future  
RLGN 2590 Religion and Social Issues

SOC 2320 Canadian Society and Culture  
SOC 2330 Social Psychology in Sociological Perspective  
SOC 2360 Small Group Interaction  
SOC 2370 Ethnic Relations  
SOC 2390 Social Organization  
SOC 2460 The Family  
SOC 2510 Criminology  
SOC 2610 Sociology of Criminal Justice and Corrections  
SOC 2620 The Sociology of Aging  
SOC 2630 Social Change  
SOC 3310 Theorizing Crime, Law and Social Justice  
SOC 3370 Sociology of Work  
SOC 3380 Power, Politics and the Welfare State  
SOC 3400 Policing and Crime Prevention  
SOC 3540 The Sociology of Health Care Systems  
SOC 3660 Sociology of Mental Disorder  
SOC 3730 Society and Education  
SOC 3750 Institutional Responses to Violence in Family and Intimate Relationships  
SOC 3770 Women, Health and Medicine  
SOC 3790 Women, Crime and Social Justice  
SOC 3810 Sociological Perspectives on Gender and Sexuality  
SOC 3820 Qualitative and Historical Methods in Sociology  
SOC 3830 Youth, Crime and Society  
SOC 3840 Community and Social Reconstruction  
SOC 3860 Genocide, Crime and Society  
SOC 3890 Power and Inequality in Comparative Perspective

WOMN 1600 Introduction to Women's and Gender Studies in the Social Sciences  
WOMN 2000 Feminist Thought  
WOMN 2500 Race, Class and Sexuality  
WOMN 2560 Women, Science and Technology  
WOMN 2600 Sex, Gender, Space and Place  
WOMN 2610 Gender, Transport and Social Justice  
WOMN 3000 Interdisciplinary Research in Women's and Gender Studies  
WOMN 3560 Feminist Perspectives on Violence Against Women

I. H. Asper School of Business  
HRIR 2440 Human Resource Management  
HRIR 3450 Labour and Employment Relations

LEAD 2010 Learning to Lead  
LEAD 3010 Negotiation and Conflict Management  
LEAD 4020 Leadership, Power and Politics in Organizations

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 1700 Social Justice in the 21st Century: Global Political Economy and Environmental  
Change  
GEOG 3870 Food Geographies  
GEOG 3890 Geography of Wellness

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~~  
HEAL 4650 Selected Topics in Interdisciplinary Health

Max Rady College of Medicine  
BGEN 2000 Human Cell Biology  
BGEN 3010 Genetics for Biomedicine  
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 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 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 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 3510 Physical Activity and Aging

KPER 1200 Physical Activity, Health and Wellness

KPER 2200 Planning Principles

KPER 2700 Motor Control and Learning  
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

BIOL 1300 Economic Plants  
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 3290 Medicinal and Hallucinogenic Plants

CHEM 1100 Atomic and Molecular Structure and Energetics  
CHEM 1110 Interaction, Reactivity, and Chemical Properties  
CHEM 1120 Introduction to Chemical Techniques  
CHEM 1130 Introduction to Organic Chemistry  
CHEM 2100 Organic Chemistry 1: Foundations of Organic Chemistry  
CHEM 2110 Organic Chemistry 2: Foundations of Organic Synthesis  
CHEM 2122 Experimental Organic Chemistry  
CHEM 2700 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy  
CHEM 2710 Biochemistry 2: Catabolism, Synthesis, and Information Pathways  
CHEM 2720 Principles and Practices of the Modern Biochemistry Laboratory  
CHEM 2730 Elements of Biochemistry 1  
CHEM 2740 Introduction to the Biochemistry Laboratory  
CHEM 2750 Elements of Biochemistry 2

MATH 1010 Applied Finite Mathematics:  
MATH 1020 Mathematics in Art  
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 2420 Introductory Virology  
MBIO 2700 Biochemistry 1: Biomolecules and Introduction to Metabolic Energy  
MBIO 2710 Biochemistry 2: Catabolism, Synthesis, and Information Pathways

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

## Bachelor of Health Studies Concentration Elective List

### Health Policy, Planning, and Evaluation:

Students selecting the Health Policy, Planning, and Evaluation concentration should choose 18 credit hours from the following courses:

ABIZ 1010 Economics of World Food Issues and Policies  
ACC 1100 Introductory Financial Accounting  
ANTH 2560 Anthropology of Illness  
ECON 3690 Economic Issues of Health Policy  
ECON 3692 Economic Determinants of Health  
ENVR 3400 Introduction to Environment and Health  
ENVR 4400 Advanced Issues in Environment and Health  
FMLY 4012 Social Development Policies  
GEOG 1280 Introduction to Human Geography  
GEOG 1700 Social Justice in the 21st Century: Global Political Economy  
and Environmental Change  
GEOG 2640 Geography of Culture and Inequality  
HNSC 1200 Food Facts and Fallacies  
HNSC 3350 Cultural and Food Patterns  
HNSC 3870 Food Geographies  
KIN 2610 Health and Physical Aspects of Aging (also NURS 2610)  
KPER 1200 Physical Activity, Health, and Wellness  
KPER 2200 Planning Principles  
LABR 1260 Working for a Living  
LABR 3060 Workplace Health and Safety  
LEAD 2010 Learning to Lead  
LEAD 3010 Negotiation and Conflict Management  
LEAD 4020 Leadership, Power, and Politics in Organizations  
**INDG 2100 Indigenous Spirituality**  
**INDG 3100 Indigenous Healing Ways**  
~~NATV 2100 Indigenous Spirituality~~  
~~NATV 3100 Indigenous Healing Ways~~  
PSYC 2260 Introduction to Research Methods in Psychology  
PSYC 2540 Social Psychology  
PSYC 3130 Introduction to Health Psychology  
REC 3220 Program Planning and Evaluation  
SOC 2390 Social Organization  
SOC 2630 Social Change  
SOC 3540 The Sociology of Health Care Systems  
STAT 2000 Basic Statistical Analysis 2  
SWRK 1310 Introduction to Social Welfare Policy Analysis  
SWRK 2050 Community and Organizational Theory  
SWRK 2080 Interpersonal Communication Skills

### Health Promotion and Education:

Students selecting the Health Promotion and Education concentration should choose 18 credit hours from the following courses:

ANTH 2560 - Anthropology of Illness  
EDUA 1560 - Adult learning and Development  
EDUA 1570 - Foundations of Adult Education  
EDUA 1580 - Program Planning in Adult Education  
EDUA 1590 - Facilitating Adult Education  
ENVR 3400 - Introduction to Environment and Health  
ENVR 4400 - Advanced Issues in Environment and Health  
FMLY 1010 - Human Development in the Family  
FMLY 1420 - Family Management Principles  
FMLY 2650 - The Social Aspects of Aging  
FMLY 3012 - Theories of Social Development  
FMLY 4012 - Social Development Policies  
GEOG 1280 - Introduction to Human Geography  
GEOG 1700 - Social Justice in the 21st Century: Global Political Economy and Environmental Change  
GEOG 2640 - Geography of Culture and Inequality  
~~HEAL 4500 - Injury Prevention Across the Life Course~~  
HNSC 1200 - Food Facts and Fallacies\*  
HNSC 2130 - Nutrition through the Life Cycle\*  
HNSC 2150 - Composition, Functional and Nutritional Properties of Food  
HNSC 2160 - Principles of Food Preparation and Preservation  
HNSC 3260 - Food Quality Evaluation  
HNSC 3350 - Culture and Food Patterns  
HNSC 4270 - Sensory Evaluation of Food  
HNSC 4290 - Food, Nutrition, and Health Policies  
HNSC 4310 - Nutrition and the Elderly  
KIN 2610 - Health and Physical Aspects of Aging (also NUR 2610)  
KPER 1200 - Physical Activity, Health, and Wellness  
LABR 1260 - Working for a Living  
**INDG 2100 Indigenous Spirituality**  
**INDG 3100 Indigenous Healing Ways**  
~~NATV 2100 - Indigenous Spirituality~~  
~~NATV 3100 - Indigenous Healing Ways~~  
PHIL 2150 - Mind and Body  
PSYC 2260 - Introduction to Research Methods in Psychology  
PSYC 2360 - Brain and Behaviour  
PSYC 2440 - Behaviour Modification Principles  
PSYC 2470 - Learning Foundations of Psychology  
PSYC 2480 - Cognitive Processes  
PSYC 3130 - Introduction to Health Psychology  
RLGN 1430 - Food: Religious Concepts and Practices  
SOC 2620 - The Sociology of Aging  
SOC 2630 - Social Change

SOC 3540 - The Sociology of Health Care Systems  
SOC 3730 - Society and Education  
STAT 2000 - Basic Statistical Analysis 2\*  
SWRK 2050 - Community and Organizational Theory  
SWRK 2080 - Interpersonal Communication Skills

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.

#### Family Health:

Students selecting the Family Health concentration should choose 18 credit hours from the following courses:

FMLY 1000 Families in Contemporary Canadian Society  
FMLY 1010 Human Development in the Family  
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 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 4604 Children in Adversity  
FMLY 4606 A Social Justice Perspective on Indigenous Maternal and Child Health  
FMLY 4802 Family Violence Prevention  
~~HEAL 4500 Injury Prevention Across the Life Course~~

NURS 2100 Introduction to Family Caregiving Across the Lifespan

## College of Nursing

### Modifications:

- MDFY 3020 Midwifery Clinical Practice and Interprofessional Roles 3 cr 0.0  
This clinical practice experience focuses on preparing the student for their interprofessional placements. Students will be in midwifery clinical placements during the span of the course and complete the didactic part of this course online. This course expands on knowledge and skills related to variations in normal during the prenatal, intrapartum and postpartum periods. Knowledge related to effective interprofessional consultation and communication is reinforced. This course is graded on a pass/fail basis. Prerequisites: MDFY 3010 and MDFY 3090.
- MDFY 3030: Interprofessional Practice I 6 cr 0.0  
This clinical practice course provides students with the opportunity to develop their skills in the provision of culturally safe care in culturally diverse settings. The tutorial offers students the opportunity to reflect about and critically analyze clinical practice experiences and to share this analysis with their peers and instructors. This course includes content related to traditional Indigenous midwifery practices. This course is graded on a pass/fail basis. Prerequisites: MDFY 3020, MDFY 3050, and MDFY 3060.
- MDFY 3032 Interprofessional Practice II 6 cr 0.0  
This clinical practice course enables the student to advance their skills in the provision of care during the childbearing year in interprofessional clinical settings. The tutorial offers students the opportunity to reflect about and critically analyze clinical practice experiences and to share this analysis with their peers and instructors. This course includes content related to traditional Indigenous midwifery practices. This course is graded on a pass/fail basis. Prerequisites: MDFY 3020, MDFY 3050, and MDFY 3060.
- MDFY 3050 Newborn Feeding: Methods and Contemporary Issues 3 cr 0.0  
This course enables the student to obtain knowledge related to all methods of newborn feeding and the evidence related to the outcomes of each method. Students will also learn about strategies for promotion and support of breastfeeding. This course also addresses policy issues related to breastfeeding in the context of family systems theory and feminist theory. Prerequisites: MDFY 3010 and MDFY 3090.
- MDFY 3060 Professional Issues in Midwifery 3 cr 0.0  
This course enables the student to engage in a critical analysis of ethical, professional and emerging trends in the profession of midwifery in Manitoba, Canada and the international context. This course includes content related to traditional Indigenous midwifery practices. Prerequisites: MDFY 3010 and MDFY 3090.
- MDFY 3090 Complex Care I Clinical Practice and Tutorial 12 cr 0.0  
This clinical practice course provides students with the knowledge and skills to begin to manage pathological and high risk conditions of pregnancy, birth, and newborn care. The focus is on advanced assessment and intervention for clients requiring complex care during the childbearing year. This course will include content related to traditional Indigenous midwifery practices. This course is graded on a pass/fail basis. Prerequisite: MDFY 2090.
- MDFY 4010 Advanced Clinical Skills II 3 cr 0.0  
(Lab required) This course provides students with a series of lectures and practical skills labs to build on clinical skills acquired in previous MDFY courses. This course expands on knowledge

and skills related to prenatal, intrapartum and postpartum care with a focus on developing fundamental skills in managing complex care for the clients and newborns. Professional behaviour and interprofessional communication continues to be a focus. This course is graded on a pass/fail basis. Prerequisites: MDFY 3030 and MDFY 3032.

MDFY 4090 Complex Care II: Clinical Practice and Tutorial 12 cr 0.0

This clinical practice course enables the student to apply knowledge and skills related to the management of more complex and emergency care scenarios in the clinical setting. The focus is on the role of the primary midwife regarding more independent management, consultation and transfer related to these conditions. The tutorial offers students the opportunity to reflect about and critically analyze clinical practice experiences and to share this analysis with their peers and instructors. This course includes content related to traditional Indigenous midwifery practices. This course is graded on a pass/fail basis. Prerequisites: MDFY 3030 and MDFY 3032.

### **NET CHANGE IN CREDIT HOURS: 0.0**

#### College of Pharmacy

Modification (*effective 2022 Summer Term*):

PHMD 4000 Pharmacy Research Project 6 cr 0.0

This course is designed to give students a research experience. Each student will select an advisor from the Rady Faculty of Health Sciences and define a health or healthcare related research project. Students are then required to complete their research and present their findings to an Advisory Committee in both oral and written format. Registration is normally restricted to students in Year 4 of the program. Students will be graded on a pass/fail basis. Prerequisite: PHMD 3004.

### **NET CHANGE IN CREDIT HOURS: +3.0**

#### Faculty of Science

#### Faculty of Science

Introduction:

SCI 4100 The Art of Scientific Visualization 3 cr + 3.0

This interdisciplinary course encourages students from disciplines across the University to use techniques from the visual arts to create high-impact visualizations of research data. Topics include data representations and visual analytics; human perception, composition, colour theory and practice; communicating with the public; and science's current impact in the art realm. A hands-on workshop format will be the main mode of learning how to incorporate perception-based design principles into static digital images and dynamic computer interactives. This course is intended for upper year undergraduates interested in scientific visualization. May not be held with SCI 4000 when the topic was The Art of Scientific Visualization. Prerequisite: Completion of 90 credit hours of university-level coursework or permission from the instructor.

**NET CHANGE IN CREDIT HOURS: +3.0**

Program modifications:

Modifications to the academic regulation concerning **Minors for Science Students**, are outlined on the next 3 pages.



## **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 lists for each department and interdisciplinary program. Other available Minor requirements can be found within the appropriate departmental/school/faculty program lists. 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.

- **Agronomy**
- Animal Systems
- **Crop Production**
- 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 **and Early Modern** Studies
- **Indigenous 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~~ **Earth Sciences**
- Physical Geography
- Environmental Science
- Environmental Studies
- **Health Sciences Minor**
- **Health Studies Minor**
- Human Nutrition and Metabolism
- Family Social Sciences
- ~~Textile Sciences~~
- Management<sup>1</sup>, and
- **Leadership for Business and Organizations<sup>2</sup>**
- Music-
- **Recreation Studies**

<sup>1</sup> ***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.***

***<sup>2</sup> Students planning to enroll in this minor must consult a Faculty of Science Academic Advisor.***

Program modification:

Modifications to the programs listed below are outlined on the next 4 pages:

- **Bachelor of Science (Major) in Data Science**
- **Bachelor of Science (Major) in Data Science, with Co-operative Option**

## **Data Science Major Entrance, Continuation, and Graduation Requirements**

**To enter** the Major Degree program in Data 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 each of COMP 1020, MATH 1232 (or MATH 1700 or MATH 1710), and STAT 1150 **(or a minimum grade of "B" in STAT 2000)**.

**To continue** in the Data Science Major Degree program, students must maintain a minimum DGPA of 2.00.

**To graduate** with the Bachelor of Science (Major) in Data Science, 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.

### **Major Co-operative Option**

A co-operative education option is available. Students should refer to the Co-operative Education for further information on the Co-op programs.

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.

# Degree Requirements

## Four Year Major (Including Co-operative Option if Selected)

Plan of Study Grid		
Year 1		Hours
COMP 1012	Computer Programming for Scientists and Engineers <sup>1</sup>	3
COMP 1020	Introductory Computer Science 2 (C+)	3
MATH 1220	Linear Algebra 1 <sup>1</sup>	3
MATH 1230	Differential Calculus <sup>1</sup>	3
MATH 1232	Integral Calculus (C+) <sup>1</sup>	3
MATH 1240	Elementary Discrete Mathematics	3
STAT 1150	Introduction to Statistics and Computing (C+) <sup>1</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
3 credit hours of electives		3
	Hours	30
Year 2		
COMP 2140	Data Structures and Algorithms	3
DATA 2010	Tools and Techniques for Data Science	3
MATH 2720	Multivariable Calculus <sup>1</sup>	3
MATH 2740	Mathematics of Data Science	3
STAT 2150	Statistics and Computing	3
STAT 2400	Introduction to Probability 1	3
12 credit hours of electives		12
	Hours	30
Years 3-4		
COMP 3380	Databases Concepts and Usage	3
COMP 4360	Machine Learning	3
DATA 3010	Data Science with Real World Data Sets	3
DATA 4010	Data Science Capstone Project <sup>2</sup>	6
MATH 3490	Optimization	3
STAT 3100	Introduction to Statistical Inference	3
STAT 3150	Statistical Computing	3
STAT 3450	Linear Models	3
3 credit hours from:		3

COMP 2080	Analysis of Algorithms	
COMP-2150	Object Orientation	
COMP 4510	Introduction to Parallel Computation	
COMP 4710	Introduction to Data Mining	
3 credit hours from:		3
MATH 2070	Graph Theory 1	
MATH 2080	Introduction to Analysis	
MATH 2090	Linear Algebra 2	
MATH 2180	Real Analysis 1	
MATH 4370	Linear Algebra and Matrix Analysis	
3 credit hours from:		3
STAT 2300	Principles of Data Collection	
STAT 2800	Introduction to Probability 2	
STAT 3030	Introduction to Stochastic Processes	
STAT 3550	Nonlinear Regression Models	
STAT 3690	Multivariate Analysis	
STAT 4100	Statistical Inference	
STAT 4150	Bayesian Analysis and Computing	
STAT 4250	Statistical Learning	
3 additional credit hours from the Faculty of Science <sup>3</sup>		3
21 credit hours of electives <sup>3</sup>		21
The above 33 credit hours must include at least 12 credit hours of Faculty of Science courses taken at the 3000 or 4000 level.		
<b>Co-op Requirements (if selected):</b>		
SCI 3980	Co-operative Education Work Term 1	0
SCI 3990	Co-operative Education Work Term 2	0
SCI 4980	Co-operative Education Work Term 3	0
SCI 4990	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	Hours	60
	Total Hours	120

<sup>1</sup> The following substitutions are allowed:

- COMP 1010 in place of COMP 1012;
- **STAT 1000 and STAT 2000 (B) in place of STAT 1150;**
- MATH 1300 in place of MATH 1220;
- MATH 1500 or MATH 1510 in place of MATH 1230;
- MATH 1700 (C+) or MATH 1710 (C+) in place of MATH 1232;

- MATH 2150 in place of MATH 2720.

<sup>2</sup> Should be taken in graduating year.

<sup>3</sup> Courses may be chosen from COMP, MATH, or STAT courses included in the course lists in the program chart provided the courses have not been used toward another program requirement.

(Letters in brackets indicate minimum prerequisite standing for further study.)



## Biological Sciences

### Introductions:

BIOL 3890 Special Topics in Biology 3 cr +3.0

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 taken by declared Honours and Major students in Biological Sciences. This course can be completed as a topics course multiple times under different titles. Prerequisite: Consent of department.

BIOL 3892 Special Topics in Biology with Laboratory 3 cr +3.0

(Lab required) Biology encompasses a broad array of ideas and special topic areas. In this course, students can pursue a specific topic in detail through lectures, laboratories, seminars and research projects. Normally taken by declared Honours and Major students in Biological Sciences. This course can be completed as a topics course multiple times under different titles. Prerequisite: Consent of department.

### Modifications:

BIOL 1000 Biology: Foundations of Life 3 cr 0.0

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. May not be held with BIOL 1001, BIOL 1020, or BIOL 1021. Prerequisite: One of Grade 12 or 40S Mathematics course (50%), MATH 1018, or MSKL 0100.

BIOL 1010 Biology: Biological Diversity and Interaction 3 cr 0.0

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. May not be held with BIOL 1011, BIOL 1030, or BIOL 1031. Prerequisite: One of Grade 12 or 40S Mathematics course (50%), MATH 1018, or MSKL 0100.

BIOL 1020 Biology 1: Principles and Themes 3 cr 0.0

(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. May not be held with BIOL 1021, BIOL 1000, BIOL 1001, or BIOE 2590. Students who complete BIOL 1000 or BIOL 1001 as the prerequisite for BIOL 1020 will not be allowed to use either BIOL 1000 or BIOL 1001, and BIOL 1020 towards their degree program as the courses may not be held for credit with one another. Prerequisite: [Biology 40S (50%) and (one of: Mathematics 40S (50%), MATH 1018, or MSKL 0100) and (one of: Chemistry 40S (50%), CHEM 1018, CSKL 0100, Physics 40S (50%), PHYS 1018, or PSKL 0100)] or [BIOL 1000 or BIOL 1001].

BIOL 2380 Introductory Toxicology 3 cr 0.0

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. May not be held with BIOL 2381, the former BIOL 2382, ENVR 2180, ENVR 2190, AGRI 2180 or AGRI 2190. Prerequisites: [one of BIOL 1030, BIOL 1031, or HEAL 1502]; and [(CHEM 1100 or CHEM 1101) and (one of CHEM

1110, CHEM 1111, CHEM 1120, CHEM 1121, CHEM 1126, or CHEM 1130)] or (one of the former CHEM 1310, the former CHEM 1311, or the former CHEM 1320).

BIOL 3400 Plant Physiology 3 cr 0.0  
(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 reactions, 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. May not be held with the former BIOL 3450 or the former PLNT 3500. Prerequisites: BIOL 2242; and [(one of CHEM 2700, CHEM 2701, MBIOL 2700, or MBIOL 2701) and (CHEM 2720 or CHEM 2721)], or [(CHEM 2730 or MBIOL 2730) and CHEM 2740], or [one of the former CHEM 2360, the former CHEM 2361, the former CHEM 2770, the former MBIOL 2360, the former MBIOL 2361, or the former MBIOL 2770]; or consent of the department.

BIOL 3500 Genetics 2 3 cr 0.0  
(Lab required) The course complements Genetics I (BIOL 2500, BIOL 2501) 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. Prerequisites: [one of BIOL 2500, BIOL 2501, or PLNT 2520]; and one of [(one of CHEM 2710, CHEM 2711, MBIOL 2710, or MBIOL 2711) and (CHEM 2720 or CHEM 2721)] or [CHEM 2740 and (CHEM 2750 or MBIOL 2750)] or [one of the former CHEM 2370, the former CHEM 2371, the former MBIOL 2370, the former MBIOL 2371, the former CHEM 2780, or the former MBIOL 2780]; or consent of department.

BIOL 4380 Environmental Toxicology 3 cr 0.0  
(Lab required) 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: [one of BIOL 2300, BIOL 2301, or AGEC 2370]; and one of [(one of CHEM 2710, CHEM 2711, MBIOL 2710, or MBIOL 2711) and (CHEM 2720 or CHEM 2721)] or [(CHEM 2740) and (CHEM 2750 or MBIOL 2750)], or [one of the former CHEM 2370, the former CHEM 2371, the former MBIOL 2370, the former MBIOL 2371, the former CHEM 2780, or the former MBIOL 2780]; and (one of STAT 1150, STAT 1000, or STAT 1001); and (one of BIOL 2410, BIOL 2411, BIOL 3470, or BIOL 3472); or consent of department.

BIOL 4470 Physiology of Excitable Cells 3 cr 0.0  
(Lab required) Information flow in the nervous system. Discovery of electrical properties of neurons, structure and function of ion channels and synapses are emphasized. This course is restricted to students in year 3 or 4 of a Major or Honours degree program in Biological Sciences or in the B.Sc. in Biosystems Engineering. Prerequisite: [(BIOL 2410 or BIOL 2411) and (BIOL 2420 or BIOL 2421)] or [BIOL 3470 and BIOL 3472]; or consent of department.

**NET CHANGE IN CREDIT HOURS: +6.0**

## Chemistry

### Introduction:

CHEM 4126 Natural Products Chemistry and Biosynthesis 3 cr +3.0

An advanced course describing the biosynthesis of natural products from an organic chemistry structural perspective. Natural products will be classified according to biogenic origin of precursor molecules. The latest trends in the field will also be discussed. May not be held with CHEM 4580 when titled Naturally Produced Chemistry and Biosynthesis. Prerequisite: CHEM 2110, CHEM 2111, the former CHEM 2220, or the former CHEM 2221.

### Modifications:

CHEM 1100 Introductory Chemistry 1: Atomic and Molecular Structure and Energetics 3 cr 0.0

This course provides a basic understanding of the fundamentals of chemistry. By the end of this course, students will understand the periodic table, energy in chemistry, atomic and molecular structures, and the concept of chemical reactivity. May not be held with CHEM 1101, the former CHEM 1300, or the former CHEM 1301. Prerequisites: [one of Chemistry 40S (50%), CHEM 1018, CSKL 0100 (P), or the former CHEM 0900 (P)] and [one of Applied Mathematics 40S (50%), Pre-calculus Mathematics 40S (50%), the former Mathematics 40S (300) (50%), MATH 1018, or MSKL 0100].

CHEM 1110 Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties 3 cr 0.0

This course builds upon students' foundation in chemistry to give them a better understanding of chemical reactivity and physical properties. May not be held with CHEM 1111, the former CHEM 1310, or the former CHEM 1311. Prerequisite: one of CHEM 1100, CHEM 1101, the former CHEM 1300, or the former CHEM 1301.

CHEM 1120 Introduction to Chemistry Techniques 3 cr 0.0

This course builds understanding in chemistry through active learning in the lab. By performing lab experiments, students will gain skills in making observations, safe handling of chemicals, handling laboratory equipment, quantitative analysis, data processing, and scientific communication. These skills are fundamental for student success in chemistry. In addition, students will be given a broader appreciation of chemistry in the world by introducing them to chemical sustainability, chemical responsibility and chemical applications. May not be held with CHEM 1121, CHEM 1122, CHEM 1126, the former CHEM 1310, or the former CHEM 1311. Prerequisites: [(Chemistry 40S (70%) or CHEM 1018) and (one of Pre-Calculus Mathematics 40S (70%), Applied Mathematics 40S (70%), MATH 1018, or MSKL 0100 (B))] or [one of CHEM 1100, CHEM 1101, the former CHEM 1300, the former CHEM 1301, CSKL 0100 (P), or the former CHEM 0900 (P)].

CHEM 1122 Introduction to Chemistry Techniques for Engineering 1 1.5 cr 0.0

For Price Faculty of Engineering students only. This course builds understanding in chemistry through active learning in the lab. By performing lab experiments, students will gain skills in making observations, safe handling of chemicals, handling laboratory equipment, quantitative analysis, data processing, and scientific communication. These skills are fundamental for student success in chemistry. In addition, students will be given a broader appreciation of chemistry in the world by introducing them to chemical sustainability, chemical responsibility and chemical applications. May not be held with CHEM 1120, CHEM 1121, the former CHEM 1310, or the former CHEM 1311. Prerequisites: [(Chemistry 40S (70%) or CHEM 1018) and (Pre-

Calculus Mathematics 40S (70%), Applied Mathematics 40S (70%), MATH 1018, or MSKL 0100 (B))] or [one of CHEM 1100, CHEM 1101, the former CHEM 1300, the former CHEM 1301, CSKL 0100 (P), or the former CHEM 0900 (P)].

CHEM 1126 Introduction to Chemistry Techniques for Engineering 2 1.5 cr 0.0  
For Price Faculty of Engineering students only. This course builds understanding in chemistry through active learning in the lab. By performing lab experiments, students will gain skills in making observations, safe handling of chemicals, handling laboratory equipment, quantitative analysis, data processing, and scientific communication. These skills are fundamental for student success in chemistry. In addition, students will be given a broader appreciation of chemistry in the world by introducing them to chemical sustainability, chemical responsibility and chemical applications. May not be held with CHEM 1120, CHEM 1121, the former CHEM 1310 or the former CHEM 1311. Pre- or corequisite: CHEM 1122, the former CHEM 1300, or the former CHEM 1301.

CHEM 1130 Introduction to Organic Chemistry 3 cr 0.0  
Structures, properties and reactions of organic molecules. May not be held with the former CHEM 1320, CHEM 2100, CHEM 2101, the former CHEM 2210, or the former CHEM 2211. Prerequisite: one of CHEM 1100, CHEM 1101, the former CHEM 1300, or the former CHEM 1301.

CHEM 2100 Organic Chemistry 1: Foundations of Organic Chemistry 3 cr 0.0  
An introduction to the concepts of organic reactivity and bonding in organic molecules. Preparation and properties of functionalized organic molecules. May not be held with CHEM 1130, the former CHEM 1320, CHEM 2101, the former CHEM 2210, or the former CHEM 2211. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)] or (the former CHEM 1310, or the former CHEM 1311).

CHEM 2110 Organic Chemistry 2: Foundations of Organic Synthesis 3 cr 0.0  
An introduction to fundamental concepts of organic reactions and synthetic strategies. The application of functional group interconversions to organic synthesis will be discussed. May not be held with CHEM 2111, the former CHEM 2220, or the former CHEM 2221. Prerequisite: one of CHEM 2100, CHEM 2101, the former CHEM 2210, or the former CHEM 2211.

CHEM 2122 Experimental Organic Chemistry 3 cr 0.0  
This course will introduce organic chemistry synthetic methods, purification techniques and product analyses. As well, infrared, <sup>1</sup>H and <sup>13</sup>C NMR spectroscopy theory and applications as applicable to organic chemistry will be taught. Students will gain experience conveying information through different media as well as chemical literacy skills. May not be held with CHEM 2123, the former CHEM 2220, or the former CHEM 2221. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)] or (the former CHEM 1310, or the former CHEM 1311).

CHEM 2240 Applied Chemistry for Engineers 3 cr 0.0  
Bonding, surface chemistry, phase rule, electrochemistry, materials and descriptive inorganic chemistry of selected elements. Prerequisite: CHEM 1100, CHEM 1101, the former CHEM 1300, or the former CHEM 1301.

CHEM 2300 Inorganic Chemistry 1: Structure and Applications 3 cr 0.0  
Overview of chemical bonding, structure and reactivity across the Periodic Table, illustrated by examples highlighting inorganic aspects of materials science and biochemistry. This course will cover an overview of periodic trends and their relationships to some properties of the elements, aspects of chemical bonding, reactivity of some inorganic molecules and materials, with examples of applications of inorganic chemistry in a variety of settings. May not be held with CHEM 2301, the former CHEM 2380, the former CHEM 2381, the former CHEM 2400, or the former CHEM 2401. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)] or (the former CHEM 1310, or the former CHEM 1311).

CHEM 2510 Introduction to Analytical Chemistry 3 cr 0.0  
This course will introduce students to the theoretical principles on which quantitative analytical methods are based, and will prepare students to plan and perform experimental work and to interpret the results. May not be held with the former CHEM 2470, the former CHEM 2471, or CHEM 2511. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)] or (the former CHEM 1310, or the former CHEM 1311).

CHEM 2520 Introduction to Analytical Chemistry Techniques 2 cr 0.0  
Practical laboratory designed to introduce students to the art of traditional/classical wet analytical chemistry techniques. Experiments focus on quantitative analytical chemistry determinations using gravimetric, titrimetric and spectrophotometric methods. May not be held with the former CHEM 2470, the former CHEM 2471, or CHEM 2521. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)], or (the former CHEM 1310, or the former CHEM 1311).

CHEM 2600 Physical Chemistry 1 3 cr 0.0  
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. May not be held with the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, the former CHEM 2281, or CHEM 2601. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126) or (the former CHEM 1310, or the former CHEM 1311)] and [one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, MATH 1520, the former MATH 1530, or MATH 1690].

CHEM 2700 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy 3 cr 0.0  
An introductory course dealing with the kinds of molecules encountered in biochemistry, and the concept of metabolic energy as a product of catabolism and a requirement for biosynthesis. Also offered as MBIO 2700. May not be held with the former CHEM 2360, the former CHEM 2361, CHEM 2701, CHEM 2730, the former CHEM 2770, the former CHEM 2860, the former MBIO 2360, the former MBIO 2361, MBIO 2700, MBIO 2701, MBIO 2730, or the former MBIO 2770. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126) or (the former CHEM 1310, or the former CHEM 1311)] and [BIOL 1030 or BIOL 1031].

CHEM 2710 Biochemistry 2: Catabolism, Synthesis, and Information Pathways 3 cr 0.0  
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. Also offered as MBIO 2710. May not be held with the former CHEM 2370, the former CHEM 2371, CHEM 2711, CHEM 2750, the former CHEM 2780, the former MBIO 2370, the former

MBIO 2371, MBIO 2710, MBIO 2711, MBIO 2750, or the former MBIO 2780. Prerequisites: [one of CHEM 2700, CHEM 2701, the former CHEM 2360, the former CHEM 2361, the former CHEM 2860, MBIO 2700, MBIO 2701, the former MBIO 2360, or the former MBIO 2361] and [one of CHEM 2100, CHEM 2101, the former CHEM 2210, or the former CHEM 2211].

CHEM 2720 Principles and Practices of the Modern Biochemistry Laboratory 3 cr 0.0  
This course will provide an introduction to the practical and theoretical foundations of the most commonly used techniques in the modern biochemistry laboratory. May not be held with the former CHEM 2370, the former CHEM 2371, CHEM 2721, CHEM 2740, the former CHEM 2780, the former MBIO 2370, the former MBIO 2371, or the former MBIO 2780. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)] or (the former CHEM 1310, or the former CHEM 1311).

CHEM 3100 Organic Chemistry 3: Advanced Organic Synthesis 3 cr 0.0  
The course consists of a detailed discussion of the reactions that facilitate functional group interconversions in organic synthesis. The opportunity to explore specific topics in considerable detail will develop a solid foundation for strategies in organic synthesis. The concept of retrosynthesis will be used to further develop these strategies. May not be held with the former CHEM 3390. Prerequisite: one of CHEM 2110, CHEM 2111, the former CHEM 2220, or the former CHEM 2221.

CHEM 3120 Advanced Organic Chemistry Laboratory Techniques 2 cr 0.0  
This course will develop advanced techniques of organic chemistry synthetic methods as well as introduce advanced physical organic methods in the studying of thermodynamics and/or kinetics of organic reactions. The application of  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectroscopy to the analysis of reaction mixtures and purified products will be taught. Students will further refine their skills in the analysis and accurate reporting of chemical characterization data. May not be held with the former CHEM 3580 or the former CHEM 4690. Prerequisites: [(CHEM 2110 or CHEM 2111) and (CHEM 2122 or CHEM 2123)] or (the former CHEM 2220, or the former CHEM 2221).

CHEM 3300 Inorganic Chemistry 2: Reactivity and Properties 3 cr 0.0  
Advanced chemistry of the elements with emphasis on chemical reactivity, electronic structure and physical properties of inorganic compounds. May not be held with the former CHEM 3380 or the former CHEM 3400. Prerequisite: one of CHEM 2300, CHEM 2301, the former CHEM 2380, the former CHEM 2381, the former CHEM 2400, or the former CHEM 2401.

CHEM 3320 Inorganic Chemistry Laboratory 2 cr 0.0  
Laboratory with focus on synthesis, reactivity and characterization of inorganic compounds. This course will explore a range of inorganic compounds using various synthetic methods, characterization tools and property measurements. Data recording, data analysis and report writing are integral parts of this course. May not be held with CHEM 3331, the former CHEM 3380, or the former CHEM 3400. Prerequisite: one of CHEM 2300, CHEM 2301, the former CHEM 2380, the former CHEM 2381, the former CHEM 2400, or the former CHEM 2401.

CHEM 3500 Instrumental Analysis 3 cr 0.0  
A course dealing with the theory of standard instruments used for chemical and biochemical analyses. An introduction to the interpretation of data obtained from such analyses. May not be held with the former CHEM 3590 or ENVR 3550. Prerequisite: [(CHEM 2510 or CHEM 2511) and (CHEM 2520 or CHEM 2521)] or (the former CHEM 2470, or the former CHEM 2471).

CHEM 3520 Instrumental Analysis Laboratory 2 cr 0.0

A course dealing with the practical use of standard instruments used for chemical and biochemical analyses. Students will learn a variety of state-of-the-art analytical techniques that will benefit their training as chemists, and learn the principles of experimental method development. May not be held with CHEM 2523, the former CHEM 3590, or ENVR 3550. Prerequisite: [(CHEM 2510 or CHEM 2511) and (CHEM 2520 or CHEM 2521)] or (the former CHEM 2470, or the former CHEM 2471). Pre- or corequisite: CHEM 3500.

CHEM 3600 Physical Chemistry 2 3 cr 0.0

This course provides an introduction to thermodynamics and related topics in chemistry. The thermodynamics governing processes will be explored. In particular, the behaviour of real gases, ideal and non-ideal solutions and reactions involving these materials will be explored from a detailed thermodynamic perspective. May not be held with the former CHEM 2290 or the former CHEM 2291. Prerequisites: [one of CHEM 2600, CHEM 2601, the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, or the former CHEM 2281] and [one of MATH 1700, MATH 1701, MATH 1710, MATH 1690, or MATH 1232].

CHEM 3620 Physical Chemistry Laboratory 2 cr 0.0

This laboratory course introduces students to a wide range of experimental methods to explore the physical properties of matter and the important thermodynamic and kinetic aspects of reactions. May not be held with the former CHEM 2290 or the former CHEM 2291. Prerequisites: [one of CHEM 2600, CHEM 2601, the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, or the former CHEM 2281] and [one of MATH 1700, MATH 1701, MATH 1710, MATH 1690, or MATH 1232].

CHEM 3700 Biophysical Chemistry 3 cr 0.0

The application of physical chemistry to biological problems, with an emphasis on quantitative interpretation. Topics include enzyme kinetics, bioenergetics, transport processes and spectroscopy. May not be held with the former CHEM 3570, the former CHEM 3571, or CHEM 3701. Prerequisites: [one of CHEM 2700, CHEM 2701, the former CHEM 2360, the former CHEM 2361, the former CHEM 2860, MBIO 2700, MBIO 2701, the former MBIO 2360, or the former MBIO 2361] and [one of MATH 1230, MATH 1500, MATH 1501, MATH 1510, or MATH 1520].

CHEM 3760 Advanced Methods for the Biochemistry Laboratory 4 cr 0.0

A laboratory-focused course introducing students to advanced methods in the purification, structural and functional analysis of important biomolecules. Registration is restricted to students in a B.Sc. Honours or Major program in Biochemistry. Space permitting, students in B.Sc. Honours or Major programs in Chemistry or Microbiology may register with permission from the course instructor. May not be held with CHEM 3761 or the former CHEM 4700. Prerequisites: [(one of CHEM 2710, CHEM 2711, MBIO 2710, or MBIO 2711) and (CHEM 2720 or CHEM 2721)] or (one of the former CHEM 2370, the former CHEM 2371, the former MBIO 2370, or the former MBIO 2371).

CHEM 3820 Integrated Chemistry Laboratory 1 2 cr 0.0

This course will serve as an introduction to laboratory projects that are designed to be conducted in an independent manner by individual students. This course will provide an opportunity for students to get laboratory experience that is beyond what is typically offered in a discipline-specific undergraduate laboratory course. Prerequisite: [one of CHEM 2122, CHEM 2123, the former CHEM 2220, or the former CHEM 2221] and [one of CHEM 2520, CHEM

2521, the former CHEM 2470, or the former CHEM 2471] and nine additional credit hours of CHEM courses at the 2000 level or above.

CHEM 4110 Introduction to Computational Chemistry 3 cr 0.0  
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 3260 or the former CHEM 4660. Prerequisites: [one of CHEM 2600, CHEM 2601, the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, or the former CHEM 2281] and nine additional credit hours of CHEM courses at the 2000 level or above.

CHEM 4130 Elementary Quantum Chemistry and Molecular Bonding 3 cr 0.0  
Elementary quantum chemistry and its applications to structure and bonding in molecules and solids. May not be held with the former CHEM 3360. Prerequisite: CHEM 2600, CHEM 2601, the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, or the former CHEM 2281.

CHEM 4150 Symmetry, Spectroscopy, and Structure 3 cr 0.0  
Applications of symmetry in chemistry; molecular spectroscopy; structure of solids. May not be held with the former CHEM 3370. Prerequisite: CHEM 2600, CHEM 2601, the former CHEM 2260, the former CHEM 2261, the former CHEM 2280, or the former CHEM 2281.

CHEM 4360 Signalling and Regulation of Gene Expression 3 cr 0.0  
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: one of CHEM 2710, CHEM 2711, the former CHEM 2370, the former CHEM 2371, MBI0 2710, MBI0 2711, the former MBI0 2370, or the former MBI0 2371.

CHEM 4370 Glycobiology and Protein Activation 3 cr 0.0  
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: one of CHEM 2710, CHEM 2711, the former CHEM 2370, the former CHEM 2371, MBI0 2710, MBI0 2711, the former MBI0 2370, or the former MBI0 2371.

CHEM 4620 Biochemistry of Nucleic Acids 3 cr 0.0  
The structure of nucleic acids; synthesis and sequence determination; interaction with drugs and protein. May not be held with CHEM 4621. Prerequisite: one of CHEM 2710, CHEM 2711, the former CHEM 2370, the former CHEM 2371, MBI0 2710, MBI0 2711, the former MBI0 2370, the former MBI0 2371.

CHEM 4630 Biochemistry of Proteins 3 cr 0.0  
The structure and function of proteins, their physical and chemical properties and methods for studying them. May not be held with CHEM 4631. Prerequisite: one of CHEM 2710, CHEM 2711, the former CHEM 2370, the former CHEM 2371, MBI0 2710, MBI0 2711, the former MBI0 2370, or the former MBI0 2371.

CHEM 4670 Drug Design and Drug Discovery 3 cr 0.0  
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: [one of CHEM 2110, CHEM 2111, the former



CHEM 2220, or the former CHEM 2221] and [one of CHEM 2700, CHEM 2701, the former CHEM 2360, the former CHEM 2361, MBIO 2700, MBIO 2701, the former MBIO 2360, the former MBIO 2361, or the former CHEM 2860].

**NET CHANGE IN CREDIT HOURS: +3.0**

Program modifications:

Modifications to the programs listed below are outlined on the next 4 pages:

- **Bachelor of Science (Honours) in Chemistry**
- **Bachelor of Science (Honours) in Chemistry, Co-operative Option**
- **Bachelor of Science (Major) in Chemistry**
- **Bachelor of Science (Major) in Chemistry, Co-operative Option**

## Chemistry, B.Sc. Honours

### Degree Requirements

Honours (Including Co-operative Option if Selected)<sup>1,2</sup>

Course	Title	Hours
Year 1		
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (B)	3
<u>CHEM 1120</u>	Introduction to <del>Chemical</del> <b>Chemistry</b> Techniques <sup>-2,3</sup>	3
<u>PHYS 1020</u>	General Physics 1	3
or <u>PHYS 1050</u>	or Physics 1: Mechanics	
<u>PHYS 1030</u>	General Physics 2	3
or <u>PHYS 1070</u>	or Physics 2: Waves and Modern Physics	
<u>MATH 1500</u>	Introduction to Calculus <sup>-3,4</sup>	3
<u>MATH 1700</u>	Calculus 2 <sup>-3,4</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
3 credit hours of electives <sup>2</sup>		3
Hours		30
Year 2		
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
<u>CHEM 2110</u>	Organic Chemistry 2: Foundations of Organic Synthesis	3
<u>CHEM 2122</u>	Experimental Organic Chemistry	3
<u>CHEM 2300</u>	Inorganic Chemistry 1: Structure and Applications	3
<u>CHEM 2510</u>	Introduction to Analytical Chemistry	3
<u>CHEM 2520</u>	Introduction to Analytical Chemistry Techniques	2
<u>CHEM 2600</u>	Physical Chemistry 1	3
<u>CHEM 2720</u>	Principles and Practices of the Modern Biochemistry Laboratory	3
6 credit hours of electives <sup>2</sup>		6
Hours		29
Year 3		
<u>CHEM 3100</u>	Organic Chemistry 3: Advanced Organic Synthesis	3
<u>CHEM 3120</u>	Advanced Organic Chemistry Laboratory Techniques	2
<u>CHEM 3300</u>	Inorganic Chemistry 2: Reactivity and Properties	3
<u>CHEM 3320</u>	Inorganic Chemistry Laboratory	2
<u>CHEM 3500</u>	Instrumental Analysis	3
<u>CHEM 3520</u>	Instrumental Analysis Laboratory	2
<u>CHEM 3600</u>	Physical Chemistry 2	3
<u>CHEM 3620</u>	Physical Chemistry Laboratory	2

<u>CHEM 3820</u>	Integrated Chemistry Laboratory 1	2
<u>CHEM 3840</u>	Integrated Chemistry Laboratory 2	3
6 credit hours of electives <sup>2</sup>		6
Work Terms (if Co-op selected):		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
	Hours	31
Year 4		
<u>CHEM 4610</u>	Advanced Chemical Techniques	6
<u>CHEM 4710</u>	Research Project in Chemistry or Biochemistry	6
12 credit hours of Chemistry courses of which at least 9 credit hours are at the 4000 level <sup>2</sup>		12
6 credit hours of electives <sup>2</sup>		6
Work Terms (if Co-op selected):		
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	Hours	30
	Total Hours	120

<sup>1</sup>IMPORTANT: The four-year Honours 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.

**<sup>2</sup>CHEM 1018, CHEM 2523, and CHEM 3331 may not count towards the 120 credit hours required for this degree.**

<sup>2,3</sup>CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120. Note: CHEM 1122 is only available to Price Faculty of Engineering students.

<sup>3,4</sup>

- 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.

(Letters in brackets indicate minimum prerequisite standing for further study.)

Chemistry, B.Sc. Major (Including Co-operative Option if Selected)<sup>1</sup>

## Degree Requirements

### Major (Including Co-operative Option if Selected)<sup>1,2</sup>

Course	Title	Hours
Year 1		
		Hours
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (C+)	3
<u>CHEM 1120</u>	Introduction to <del>Chemical</del> <b>Chemistry</b> Techniques <sup>2,3</sup>	3
<u>PHYS 1020</u>	General Physics 1	3
or <u>PHYS 1050</u>	or Physics 1: Mechanics	
<u>PHYS 1030</u>	General Physics 2	3
or <u>PHYS 1070</u>	or Physics 2: Waves and Modern Physics	
<u>MATH 1500</u>	Introduction to Calculus <sup>3,4</sup>	3
<u>MATH 1700</u>	Calculus 2 <sup>3,4</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
3 credit hours of electives <sup>2</sup>		3
Hours		30
Year 2		
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
<u>CHEM 2110</u>	Organic Chemistry 2: Foundations of Organic Synthesis	3
<u>CHEM 2122</u>	Experimental Organic Chemistry	3
<u>CHEM 2300</u>	Inorganic Chemistry 1: Structure and Applications	3
<u>CHEM 2510</u>	Introduction to Analytical Chemistry	3
<u>CHEM 2520</u>	Introduction to Analytical Chemistry Techniques	2
<u>CHEM 2600</u>	Physical Chemistry 1	3
<u>CHEM 2720</u>	Principles and Practices of the Modern Biochemistry Laboratory	3
6 credit hours of electives <sup>2</sup>		6
Hours		29
Year 3		
<u>CHEM 3100</u>	Organic Chemistry 3: Advanced Organic Synthesis	3
<u>CHEM 3120</u>	Advanced Organic Chemistry Laboratory Techniques	2
<u>CHEM 3300</u>	Inorganic Chemistry 2: Reactivity and Properties	3
<u>CHEM 3320</u>	Inorganic Chemistry Laboratory	2
<u>CHEM 3500</u>	Instrumental Analysis	3
<u>CHEM 3520</u>	Instrumental Analysis Laboratory	2
<u>CHEM 3600</u>	Physical Chemistry 2	3
<u>CHEM 3620</u>	Physical Chemistry Laboratory	2
<u>CHEM 3820</u>	Integrated Chemistry Laboratory 1	2

<u>CHEM 3840</u>	Integrated Chemistry Laboratory 2	3
6 credit hours of electives <sup>2</sup>		6
Work Terms (if Co-op selected):		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
Hours		31
Year 4		
<u>CHEM 4610</u>	Advanced Chemical Techniques	6
6 credit hours of Chemistry courses at the 4000 level		6
18 credit hours of electives <sup>2</sup>		18
Work Terms (if Co-op selected):		
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
Hours		30
Total Hours		120

<sup>1</sup> 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.

**<sup>2</sup> CHEM 1018, CHEM 2523, and CHEM 3331 may not count towards the 120 credit hours required for this degree.**

<sup>2,3</sup>CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120. Note: CHEM 1122 is only available to Price Faculty of Engineering students.

<sup>3,4</sup>

- 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.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Mathematics

### Modifications:

MATH 1080 Fundamentals of Mathematical Reasoning 3 cr 0.0  
(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: One of Pre-Calculus Mathematics 40S (50%), the former Mathematics 40S (300) (50%), Applied Mathematics 40S (65%), MATH 1018 (C+), or MSKL 0100.

MATH 1210 Techniques of Classical and Linear Algebra 3 cr 0.0  
(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. May not be held with MATH 1200, MATH 1201, MATH 1211, MATH 1220, MATH 1300, MATH 1301, or MATH 1310. Prerequisites: One of Pre-calculus Mathematics 40S (60%), the former Mathematics 40S (300) (60%), MATH 1018 (C+), or MSKL 0100.

MATH 1220 Linear Algebra 1 3 cr 0.0  
(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: One of Pre-calculus Mathematics 40S (70%), the former Mathematics 40S (300) (70%), MATH 1018 (B), or MSKL 0100 (B).

MATH 1230 Differential Calculus 3 cr 0.0  
(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: One of Pre-calculus Mathematics 40S (70%), the former Mathematics 40S (300) (70%), MATH 1018 (B), or MSKL 0100 (B).

MATH 1240 Elementary Discrete Mathematics 3 cr 0.0  
(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 mathematical ideas, proof, techniques, and mathematical writing, explored through topics in discrete mathematics. May not be held with MATH 1241 or MATH 3120. Prerequisite: One of Pre-calculus Mathematics 40S (60%), the former Mathematics 40S (300) (60%), MATH 1018 (B), or MSKL 0100.

MATH 1300 Vector Geometry and Linear Algebra 3 cr 0.0  
(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: One of Pre-calculus Mathematics 40S (60%), Applied Mathematics 40S (70%), the former Mathematics 40S (300) (60%), MATH 1018 (C+), or MSKL 0100.

MATH 1500 Introduction to Calculus 3 cr 0.0  
(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: One of Pre-calculus Mathematics 40S (60%), the former Mathematics 40S (300) (60%), MATH 1018 (C+), or MSKL 0100.

MATH 1510 Applied Calculus 1 3 cr 0.0  
(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: (One of Pre-calculus Mathematics 40S (60%), the former Mathematics 40S (300) (60%), MATH 1018 (C+), or MSKL 0100) and (one of Physics 40S (300) (50%), PHYS 1018, PHYS 0900 (P), or PSKL 0100 (P)).

MATH 1520 Introductory Calculus for Management and Social Sciences 3 cr 0.0  
(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: One of Pre-calculus Mathematics 40S (60%), the former Mathematics 40S (300) (60%), MATH 1018 (C+), or MSKL 0100.

## **NET CHANGE IN CREDIT HOURS: 0.0**

Program modifications:

Modifications to the programs listed below are outlined on the next 24 pages:

- **Bachelor of Science (Honours) in Mathematics**
- **Bachelor of Science (Honours) in Mathematics, Co-operative Option**
- **Bachelor of Science (Double Honours) in Mathematics**
- **Bachelor of Science (Double Honours) in Mathematics, Co-operative Option**
- **Bachelor of Science (Major) in Mathematics**
- **Bachelor of Science (Major) in Mathematics, Co-operative Option**
  
- **Bachelor of Science (Major) in Applied Mathematics with Computer Science Option**
- **Bachelor of Science (Major) in Applied Mathematics with Computer Science Option, Co-operative Option**
- **Bachelor of Science (Major) in Applied Mathematics with Economics Option**

- **Bachelor of Science (Major) in Applied Mathematics with Economics Option, Co-operative Option**
- **Bachelor of Science (Major) in Applied Mathematics with Statistics Option**
- **Bachelor of Science (Major) in Applied Mathematics with Statistics Option, Co-operative Option**
  
- **Bachelor of Science (Joint Honours) in Computer Science and Mathematics**
- **Bachelor of Science (Joint Honours) in Computer Science and Mathematics, Co-operative Option**
- **Bachelor of Science (Joint Honours) in Mathematics and Economics**
- **Bachelor of Science (Joint Honours) in Statistics and Mathematics**
- **Bachelor of Science (Joint Honours) in Statistics and Mathematics, Co-operative Option**



## Mathematics, B.Sc. Honours

### Mathematics Honours Entrance, Continuation, and Graduation 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 achieve 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):**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>MATH 2030</u>	Combinatorics 1	3
<u>MATH 2040</u>	Curves and Surfaces	3
<u>MATH 2070</u>	Graph Theory 1	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 2170</u>	Number Theory 1	3

Students are encouraged to discuss potential electives with a departmental advisor.

### Honours Co-operative Option

A co-operative education option is available for Honours students. Students should refer to the Co-operative Education for further information on the Co-op programs.

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).

## Degree Requirements

### Honours (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<b>Hours</b>		<b>12</b>
<b>Years 1-2</b>		
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>1</sup>	3
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		6
15 credit hours of electives <sup>2</sup>		15
<b>Hours</b>		<b>27</b>
<b>Year 2</b>		
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
6 credit hours from the following list:		6
<u>MATH 2030</u>	Combinatorics 1	
<u>MATH 2040</u>	Curves and Surfaces	
<u>MATH 2070</u>	Graph Theory 1	
<u>MATH 2160</u>	Numerical Analysis 1 <sup>2,3</sup>	
<u>MATH 2170</u>	Number Theory 1	
<b>Hours</b>		<b>21</b>
<b>Years 3-4</b>		
36 credit hours of Mathematics courses, which must include the following:		
<u>MATH 3320</u>	Algebra 2	3
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3390</u>	Introduction to Topology	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3472</u>	Real Analysis 3	3

One of the two concentrations listed below (see Concentration tab for course requirements) 18

Applied and Computational Mathematics

Pure Mathematics

12 credit hours of Mathematics courses from the following (if not already taken as a required in 2nd year elective): 12

MATH 2030 Combinatorics 1

MATH 2070 Graph Theory 1

MATH 2160 Numerical Analysis 1

MATH 2170 Number Theory 1

All Year 3 and 4 Mathematics courses

12 credit hours of approved (not necessarily mathematics) electives<sup>2</sup> 12

**Co-op Requirements (if selected):**

SCI 3980 Co-operative Education Work Term 1 0

SCI 3990 Co-operative Education Work Term 2 0

SCI 4980 Co-operative Education Work Term 3 0

SCI 4990 Co-operative Education Work Term 4 (if a 4th work term is selected) 0

**Hours 60**

**Total Hours 120**

Plan of Study Grid

<sup>1</sup> 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 1210 (A) or 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

<sup>2,3</sup> Department strongly recommends choosing MATH 2160 as one of the electives in Year 2.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Applied and Computational Mathematics Concentration

Course	Title	Hours
<u>MATH 3420</u>	Numerical Analysis 2	3
<u>MATH 3460</u>	Partial Differential Equations	3
<u>MATH 4370</u>	Linear Algebra and Matrix Analysis	3
9 additional credit hours to be chosen from:		9
<u>MATH 3322</u>	Algebra 3	
<u>MATH 3330</u>	Computational Algebra	
<u>MATH 4280</u>	Basic Functional Analysis	
<u>MATH 4320</u>	Dynamical Systems <sup>1</sup>	
<u>MATH 4330</u>	Fundamentals of Approximation Theory <sup>1</sup>	
<u>MATH 4380</u>	Mathematical Biology <sup>1</sup>	
<u>MATH 4390</u>	Numerical Approximation Theory <sup>1</sup>	
<u>MATH 4440</u>	Numerical Analysis of Partial Differential Equations	
<u>MATH 4460</u>	Partial Differential Equations 2 <sup>1</sup>	

### Course List

<sup>1</sup> 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.

## Pure Mathematics Concentration

Course	Title	Hours
<u>MATH 3322</u>	Algebra 3	3
<b><u>MATH 4260</u></b>	<b>Abstract Measure Theory</b>	<b>3</b>
One of:		3
<u>MATH 3410</u>	Introduction to Mathematical Logic <sup>1</sup>	
<u>MATH 3480</u>	Set Theory <sup>1</sup>	
<del><u>MATH 4260</u></del>	<del>Abstract Measure Theory</del>	<del>3</del>
One of:		3
<u>MATH 4300</u>	Combinatorial Geometry <sup>1</sup>	
<u>MATH 4340</u>	Introduction to Algebraic Geometry <sup>1</sup>	
<u>MATH 4360</u>	Introduction to Differential Geometry <sup>1</sup>	
6 additional credit hours to be chosen from:		6
<u>MATH 3360</u>	Combinatorics 2	
<u>MATH 4240</u>	Advanced Group Theory <sup>1</sup>	
<u>MATH 4270</u>	Algebraic Topology	
<u>MATH 4280</u>	Basic Functional Analysis	
<u>MATH 4290</u>	Complex Analysis 2	
<u>MATH 4450</u>	Number Theory 2	

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>MATH 4470</u>	Rings and Modules <sup>1</sup>	

<sup>1</sup> 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.

## Mathematics, B.Sc. Major

### Degree Requirements

#### Four Year Major (Including Co-operative Option if Selected)

Year 1		Hours
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (C+) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<b>Hours</b>		<b>12</b>
<b>Years 1-2</b>		
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>1</sup>	3
15 credit hours of approved electives <sup>2</sup>		15
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		6
<b>Hours</b>		<b>27</b>
<b>Year 2</b>		
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
6 credit hours from the following:		6
<u>MATH 2030</u>	Combinatorics 1	
<u>MATH 2040</u>	Curves and Surfaces	
<u>MATH 2070</u>	Graph Theory 1	
<u>MATH 2160</u>	Numerical Analysis 1	
<u>MATH 2170</u>	Number Theory 1	
<b>Hours</b>		<b>15</b>
<b>Years 3-4</b>		
48 credit hours from the following:		48
<u>MATH 2030</u>	Combinatorics 1	<u>3</u>
<u>MATH 2070</u>	Graph Theory 1	<u>3</u>
<u>MATH 2160</u>	Numerical Analysis 1	
<u>MATH 2170</u>	Number Theory 1	
and any 3000/4000 level Mathematics courses, which must include:		
<u>MATH 2030</u>	Combinatorics 1 (if not already taken as Year 2 elective)	
<u>MATH 2160</u>	Numerical Analysis 1 (if not already taken as Year 2 elective)	

<u>MATH 3320</u>	Algebra 2	<u>3</u>
<u>MATH 3340</u>	Complex Analysis 1	<u>3</u>
<u>MATH 3360</u>	Combinatorics 2	<u>3</u>
<u>MATH 3390</u>	Introduction to Topology	<u>3</u>
<u>MATH 3440</u>	Ordinary Differential Equations	<u>3</u>
<u>MATH 3460</u>	Partial Differential Equations	<u>3</u>
<b>30 credit hours from the following:</b>		<b>30</b>
<u>MATH 2040 Curves and Surfaces</u>		
<u>MATH 2070 Graph Theory 1</u>		
<u>MATH 2170 Number Theory 1</u>		
<u>and any 3000/4000 level Mathematics courses.</u>		
12 credit hours of approved electives <sup>2</sup>		12
	<b>Hours</b>	<b>66</b>
<b>Years 3 - 4</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>60</b>
	<b>Total Hours</b>	<b>120</b>

#### Plan of Study Grid

<sup>1</sup> 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 1210 (B) or MATH 1300 (C+) 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Mathematics Double Honours

A student may elect Honours in Mathematics (including Co-operative Option) and one other field, subject to the approval of both departments.

**To enter** the Double Honours program in the Mathematics field, 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. Students should consult the other participating department to identify entry requirements for that field.

**To continue** in the Mathematics Double 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 3.00 DGPA and achieve a minimum grade of "C" on all courses that make up the degree. **Students must complete a minimum of 120 credit hours to graduate, depending on requirements for other participating department, students may need to complete more than 120 credit hours to graduate.**



# Degree Requirements

Double Honours (Including Co-operative Option if Selected)<sup>1</sup>

A student may elect Honours in Mathematics (including Co-operative Option) and one other field, subject to the approval of both departments. The Mathematics prescription for a Double Honours program is as indicated below. It is a minimum of 120 credit hours, comprising of courses listed below, and the required courses from the other department.

Year 1		Hours
<u>MATH 1220</u>	Linear Algebra 1 <sup>±2</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>±2</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>±2</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>±2</sup>	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>±2</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
<b>Hours</b>		<b>24</b>
Year 2		Hours
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
6 credit hours from the following list:		6
<u>MATH 2030</u>	Combinatorics 1	
<u>MATH 2040</u>	Curves and Surfaces	
<u>MATH 2070</u>	Graph Theory 1	
<u>MATH 2160</u>	Numerical Analysis 1	
<u>MATH 2170</u>	Number Theory 1	

<b>Hours</b>	<b>21</b>
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**Year 3**

<u>MATH 3320</u>	Algebra 2	3
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<u>MATH 3340</u>	Complex Analysis 1	3
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<u>MATH 3390</u>	Introduction to Topology	3
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<u>MATH 3440</u>	Ordinary Differential Equations	3
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<u>MATH 3470</u>	Real Analysis 2	3
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<u>MATH 3472</u>	Real Analysis 3	3
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<b>Hours</b>	<b>18</b>
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**Years 3-4**

**Co-op Requirements (if selected):**

<u>SCI 3980</u>	Co-operative Education Work Term 1	0
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<u>SCI 3990</u>	Co-operative Education Work Term 2	0
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<u>SCI 4980</u>	Co-operative Education Work Term 3	0
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<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
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<b>Hours</b>	<b>0</b>
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**Year 4**

15 credit hours from the following (if not already taken in as a required 2nd year elective):	15
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<u>MATH 2030</u>	Combinatorics 1
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<u>MATH 2070</u>	Graph Theory 1
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<u>MATH 2160</u>	Numerical Analysis 1
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<u>MATH 2170</u>	Number Theory 1
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All Year 3 and 4 mathematics courses of which at least 9 credit hours must be 4000 level

<b>Hours</b>	<b>15</b>
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<b>Total Hours</b>	<b>78</b>
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Plan of Study Grid

<sup>1</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

<sup>12</sup>

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 1210 (A) or 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.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Applied Mathematics with Computer Science Option, B.Sc. Major

### Degree Requirements

#### Four Year Major (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (C+) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>1</sup>	3
<u>COMP 1020</u>	Introductory Computer Science 2	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
6 credit hours of approved electives <sup>2</sup>		6
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 2180</u>	Real Analysis 1	3
<u>COMP 2140</u>	Data Structures and Algorithms	3
<b>Hours</b>		<b>18</b>
<b>Years 2-4</b>		
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
<u>STAT 2150</u>	Statistics and Computing	3
9 credit hours from:		9
<u>MATH 2030</u> Combinatorics 1		
<u>MATH 2040</u> Curves and Surfaces		
<u>MATH 2170</u> Number Theory 1		
Any 3000/4000 level MATH course		
One of the following patterns:		9
<b>Graphics</b>		
<u>COMP 2190</u> Introduction to Scientific Computing		
<u>COMP 3490</u> Computer Graphics 1		
<u>COMP 4490</u> Computer Graphics 2		
<b>Software</b>		
<u>COMP 2150</u> Object Orientation		
<u>COMP 2160</u> Programming Practices		
and one of:		

<u>COMP 3380</u>	Databases Concepts and Usage	
<u>COMP 3440</u>	Programming Language Concepts	
<u>COMP 3020</u>	Human-Computer Interaction 1	
<b>Theoretical Computer Science</b>		
<u>COMP 2080</u>	Analysis of Algorithms	
and two of:		
<u>COMP 3030</u>	Automata Theory and Formal Languages	
<u>COMP 3170</u>	Analysis of Algorithms and Data Structures	
<u>COMP 3820</u>	Introduction to Bioinformatics Algorithms	
<u>COMP 4420</u>	Advanced Design and Analysis of Algorithms	
<b>Hardware</b>		
<u>COMP 2160</u>	Programming Practices	
<u>COMP 2280</u>	Introduction to Computer Systems	
and one of:		
<u>COMP 3370</u>	Computer Organization	
<u>COMP 3430</u>	Operating Systems	
<b>Artificial Intelligence</b>		
<u>COMP 3190</u>	Introduction to Artificial Intelligence	
and two of:		
<u>COMP 4180</u>	Intelligent Mobile Robotics	
<u>COMP 4190</u>	Artificial Intelligence	
<u>COMP 4200</u>	Expert Systems	
<u>COMP 4360</u>	Machine Learning	
27 credit hours of electives <sup>2</sup>		27
<b>Hours</b>		<b>51</b>
<b>Years 3-4</b>		
<u>MATH 2070</u>	Graph Theory 1	3
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3420</u>	Numerical Analysis 2	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3460</u>	Partial Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3610</u>	Introduction to Mathematical Modelling	3
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>		<b>21</b>
<b>Total Hours</b>		<b>120</b>

Plan of Study Grid

<sup>1</sup> 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 1210 (B) or MATH 1300 (C+) 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

(Letters in brackets indicate minimum prerequisite standing for further study.)

# Applied Mathematics with Economics Option, B.Sc. Major

## Degree Requirements

### Four Year Major (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (C+) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
One of the following:		6
<u>ECON 1010</u>	Introduction to Microeconomic Principles & <u>ECON 1020</u> and Introduction to Macroeconomic Principles	
<u>ECON 1210</u>	Introduction to Canadian Economic Issues and Policies & <u>ECON 1220</u> and Introduction to Global and Environmental Economic Issues and Policies	
9 credit hours of electives <sup>2</sup>		9
<b>Hours</b>		<b>27</b>
<b>Years 1-2</b>		
3 credit hour "W" course must be taken in Year 1 or Year 2		3
<b>Hours</b>		<b>3</b>
<b>Year 2</b>		
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 2180</u>	Real Analysis 1	3
<b>Hours</b>		<b>15</b>
<b>Years 2-4</b>		
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
<u>STAT 2150</u>	Statistics and Computing	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>1</sup>	3
<u>ECON 2030</u>	Mathematical Economics 1	3
<u>ECON 3030</u>	Mathematical Economics 2	3
6 credit hours from:		6
<u>MATH 2030</u>	Combinatorics 1	
<u>MATH 2040</u>	Curves and Surfaces	
<u>MATH 2170</u>	Number Theory 1	
Any 3000/4000 level MATH course		
6 credit hours from:		6
<u>ECON 2010</u>	Microeconomic Theory 1	

<u>ECON 2020</u>	Macroeconomic Theory 1	
<u>ECON 3010</u>	Microeconomic Theory 2	
<u>ECON 3020</u>	Macroeconomic Theory 2	
24 credit hours of approved electives <sup>2</sup>		24
<b>Hours</b>		<b>51</b>
<b>Years 3-4</b>		
<u>MATH 2070</u>	Graph Theory 1	3
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3420</u>	Numerical Analysis 2	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3460</u>	Partial Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3610</u>	Introduction to Mathematical Modelling	3
<u>MATH 4370</u>	Linear Algebra and Matrix Analysis	3
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>		<b>24</b>
<b>Total Hours</b>		<b>120</b>

#### Plan of Study Grid

<sup>1</sup> 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 1210 (B) or MATH 1300 (C+) 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

(Letters in brackets indicate minimum prerequisite standing for further study.)



## Applied Mathematics with Statistics Option, B.Sc. Major

### Degree Requirements

#### Four Year Major (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (C+) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
9 credit hours of electives <sup>2</sup>		9
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 2180</u>	Real Analysis 1	3
<u>STAT 2150</u>	Statistics and Computing	3
<u>STAT 2400</u>	Introduction to Probability 1	3
<b>Hours</b>		<b>21</b>
<b>Years 2-4</b>		
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>1</sup>	3
9 credit hours from:		9
<u>MATH 2030</u> Combinatorics 1		
<u>MATH 2040</u> Curves and Surfaces		
<u>MATH 2170</u> Number Theory 1		
Any 3000/4000 level MATH course		
9 credit hours of 3000 or 4000 level Statistics courses		9
18 credit hours of approved electives <sup>2</sup>		18
<b>Hours</b>		<b>39</b>
<b>Years 3-4</b>		
<u>MATH 2070</u>	Graph Theory 1	3
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3420</u>	Numerical Analysis 2	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3460</u>	Partial Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3

<u>MATH 3610</u>	Introduction to Mathematical Modelling	3
<u>STAT 2800</u>	Introduction to Probability 2	3
<u>STAT 3100</u>	Introduction to Statistical Inference	3
<u>STAT 3450</u>	Linear Models	3
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>		<b>30</b>
<b>Total Hours</b>		<b>120</b>

Plan of Study Grid

<sup>1</sup> 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 1210 (B) or MATH 1300 (C+) 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Computer Science - Mathematics Joint, B.Sc. Honours

### Degree Requirements

#### Joint Honours (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>COMP 1010</u>	Introductory Computer Science 1	3
<u>COMP 1020</u>	Introductory Computer Science 2 (B)	3
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
6 credit hours from the Faculty of Arts, which should include the required 3 credit hour "W" course		6
3 credit hours of electives <sup>2</sup>		3
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
<u>COMP 2080</u>	Analysis of Algorithms	3
<u>COMP 2140</u>	Data Structures and Algorithms	3
<u>COMP 2160</u>	Programming Practices	3
<u>COMP 2280</u>	Introduction to Computer Systems	3
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
3 credit hours of electives <sup>2</sup>		3
<b>Hours</b>		<b>30</b>
<b>SUMMER</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1 <sup>2,3</sup>	0
<b>Hours</b>		<b>0</b>
<b>Year 3</b>		
<b>SUMMER</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3990</u>	Co-operative Education Work Term 2 <sup>2,3</sup>	0
<b>Hours</b>		<b>0</b>
<b>Years 3-4</b>		
<u>COMP 3030</u>	Automata Theory and Formal Languages	3
<u>COMP 3170</u>	Analysis of Algorithms and Data Structures	3
<u>COMP 3370</u>	Computer Organization	3

<u>COMP 3430</u>	Operating Systems	3
15 credit hours of 3000 or 4000 level Computer Science courses, of which at least 6 credit hours must be 4000 level		15
<u>MATH 2030</u>	Combinatorics 1	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 3320</u>	Algebra 2	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3472</u>	Real Analysis 3	3
9 credit hours from:		9
<u>MATH 2070</u>	Graph Theory 1	
<u>MATH 2170</u>	Number Theory 1	
Any 3000 or 4000 level Mathematics courses, of which at least 3 credit hours must be 4000 level		
6 credit hours of electives <sup>2</sup>		6
<b>Hours</b>		<b>60</b>
<b>Year 4</b>		
<b>SUMMER</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 4980</u>	Co-operative Education Work Term 3 <sup>2,3</sup>	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected) <sup>2,3</sup>	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>120</b>

#### Plan of Study Grid

<sup>1</sup> 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 1210 (A) or 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.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

<sup>2,3</sup> When chosen, the Co-operative Option work terms (SCI 3980, SCI 3990, SCI 4980, and SCI 4990 [if selected]) 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.)

# Mathematics - Economics Joint, B.Sc. Honours

## Degree Requirements

### Joint Honours

<b>Year 1</b>		<b>Hours</b>
One of A or B:		6
A:		
<u>ECON 1010</u>	Introduction to Microeconomic Principles (B)	
<u>ECON 1020</u>	Introduction to Macroeconomic Principles (B)	
B:		
<u>ECON 1210</u>	Introduction to Canadian Economic Issues and Policies (B)	
<u>ECON 1220</u>	Introduction to Global and Environmental Economic Issues and Policies (B)	
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1,2</sup>	3
<u>COMP 1010</u>	Introductory Computer Science 1 <sup>2</sup>	3
6 credit hours of electives, including the required "W" course <sup>3</sup>		6
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
<u>ECON 2010</u>	Microeconomic Theory 1	3
<u>ECON 2020</u>	Macroeconomic Theory 1	3
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
9 credit hours of approved electives <sup>3</sup>		9
<b>Hours</b>		<b>30</b>
<b>Years 3-4</b>		
<u>ECON 3010</u>	Microeconomic Theory 2	3
<u>ECON 3020</u>	Macroeconomic Theory 2	3
<u>ECON 3040</u>	Introduction to Econometrics <sup>3,2</sup>	3
<u>MATH 2030</u>	Combinatorics 1	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 3320</u>	Algebra 2	3
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3440</u>	Ordinary Differential Equations	3

<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3472</u>	Real Analysis 3	3
24 credit hours of approved Economics courses <sup>3,4</sup>		24
3 credit hours from:		3
<u>MATH 3420</u> Numerical Analysis 2		
<u>MATH 3460</u> Partial Differential Equations		
<u>MATH 3610</u> Introduction to Mathematical Modelling		
<u>MATH 4370</u> Linear Algebra and Matrix Analysis		
Any Mathematics course at the 4000 level		
3 credit hours of Mathematics courses at the 3000 or 4000 level		3
<b>Hours</b>		<b>60</b>
<b>Total Hours</b>		<b>120</b>

### Plan of Study Grid

<sup>1</sup> 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 1210 (A) or 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.

<sup>2</sup> 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.

<sup>3</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

<sup>3,4</sup> 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.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Statistics - Mathematics Joint, B.Sc. Honours

### Degree Requirements

#### Joint Honours (Including Co-operative Option if Selected)

<b>Year 1</b>		<b>Hours</b>
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
<b>Hours</b>		<b>12</b>
<b>Years 1-2</b>		
The following courses must be taken in Year 1 or Year 2:		
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>1</sup>	3
<u>STAT 2150</u>	Statistics and Computing (B)	3
<u>COMP 1010</u>	Introductory Computer Science 1	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
9 credit hours of approved electives <sup>2</sup>		9
<b>Hours</b>		<b>24</b>
<b>Year 2</b>		
<u>STAT 2400</u>	Introduction to Probability 1	3
<u>STAT 2800</u>	Introduction to Probability 2	3
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2160</u>	Numerical Analysis 1	3
<u>MATH 2180</u>	Real Analysis 1	3
<b>Hours</b>		<b>24</b>
<b>Year 3</b>		
<u>STAT 3030</u>	Introduction to Stochastic Processes	3
<u>STAT 3100</u>	Introduction to Statistical Inference	3
<u>STAT 3150</u>	Statistical Computing	3
<u>STAT 3450</u>	Linear Models	3
<b>Hours</b>		<b>12</b>
<b>Years 3-4</b>		
<u>MATH 2030</u>	Combinatorics 1	3
<u>MATH 3320</u>	Algebra 2	3
<u>MATH 3322</u>	Algebra 3	3
<u>MATH 3340</u>	Complex Analysis 1	3

<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3472</u>	Real Analysis 3	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3460</u>	Partial Differential Equations	3
3 credit hours from:		3
<u>MATH 2070</u> Graph Theory 1		
<u>MATH 2170</u> Number Theory 1		
Any 3000/4000 level Mathematics courses		
3 credit hours from any 4000 level Mathematics courses		3
6 credit hours from any 4000 level Statistics courses		6
9 credit hours of approved electives <sup>2</sup>		9
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>		<b>45</b>
<b>Year 4</b>		
<u>STAT 4100</u>	Statistical Inference	3
<b>Hours</b>		<b>3</b>
<b>Total Hours</b>		<b>120</b>

Plan of Study Grid

<sup>1</sup> 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 1210 (A) or 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 and STAT 2000 (B) in place of STAT 1150.

<sup>2</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090.**

(Letters in brackets indicate minimum prerequisite standing for further study.)



## Microbiology

### Deletion:

MBIO 4440 Systems Microbiology: from Genomes to Life 3 cr -3.0

### Introductions:

MBIO 4300 Infectious Diseases Around the World 3 cr +3.0

This course will build upon MBIO 3010. The course will cover the different influential factors such as climate, travel, poverty and socio-economic conditions, government and religion, and how they impact the prevention, spread and treatment of key infectious disease in different parts of the world. May not be held with MBIO 4030 when titled Infectious Diseases around the World. Prerequisite: MBIO 3010 or MBIO 3011.

MBIO 4442 Research in Systems Microbiology 3 cr +3.0

(Lab required) Systems microbiology integrates physiological information and functional genomics (genomics, transcriptomics, proteomics, metabolomics) data, as well as large scale mutagenesis and chemogenomics to create models of the complex interactions within microbial cells to understand how a bacterial cell functions as an integrated whole. Applications to more complex microbial communities will also be discussed. May not be held with the former MBIO 4440. Prerequisites: one of MBIO 3032, the former MBIO 3030, or MBIO 3031.

### Modifications:

MBIO 1010 Microbiology I 3 cr 0.0

(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. Prerequisites: [BIOL 1020 or BIOL 1021] and [one of CHEM 1100, CHEM 1101, the former CHEM 1300, or the former CHEM 1301].

MBIO 2020 Microbiology II 3 cr 0.0

(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, the former MBIO 2110, or the former MBIO 2111. Prerequisites: [MBIO 1010 or MBIO 1011] and [((CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126)) or (the former CHEM 1310 or the former CHEM 1311)].

MBIO 2230 Introductory Biogeochemistry 3 cr 0.0

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. Prerequisites: [one of CHEM 1110, CHEM 1111, the former CHEM 1310, or the former CHEM 1311] and [one of MBIO 1010, MBIO 1011, BIOL 1030, or BIOL 1031].

MBIO 2700 Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy 3 cr 0.0  
An introductory course dealing with the kinds of molecules encountered in biochemistry, and the concept of metabolic energy as a product of catabolism and a requirement for biosynthesis. Also offered as CHEM 2700. May not be held with the former MBIO 2360, the former MBIO 2361, MBIO 2701, MBIO 2730, the former MBIO 2770, the former CHEM 2360, the former CHEM 2361, CHEM 2700, CHEM 2701, CHEM 2730, the former CHEM 2860, or the former CHEM 2770. Prerequisites: [(CHEM 1110 or CHEM 1111) and (one of CHEM 1120, CHEM 1121, or CHEM 1126) or (the former CHEM 1310 or the former CHEM 1311)] and [BIOL 1030 or BIOL 1031].

MBIO 2710 Biochemistry 2: Catabolism, Synthesis, and Information Pathways 3 cr 0.0  
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. Also offered as CHEM 2710. May not be held with the former MBIO 2370, the former MBIO 2371, MBIO 2711, MBIO 2750, the former MBIO 2780, the former CHEM 2370, the former CHEM 2371, CHEM 2710, CHEM 2711, CHEM 2750, or the former CHEM 2780. Prerequisites: [one of MBIO 2700, MBIO 2701, the former MBIO 2360, the former MBIO 2361, CHEM 2700, CHEM 2701, the former CHEM 2360, the former CHEM 2361, or the former CHEM 2860] and [one of CHEM 2100, CHEM 2101, the former CHEM 2210, or the former CHEM 2211].

MBIO 3000 Applied Biological Safety 3 cr 0.0  
A comprehensive overview of applied biological safety in research and industrial environments and the disease-causing features of relevant infectious agents and considerations for their containment. Prerequisites: [MBIO 1010 or MBIO 1011] and [one of CHEM 1110, CHEM 1111, CHEM 1130, the former CHEM 1310, the former CHEM 1311, or the former CHEM 1320]; or permission of instructor.

MBIO 3032 Microbiology III: Physiology and Metabolism 3 cr 0.0  
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 the former MBIO 3030, or MBIO 3031. Prerequisites: [MBIO 2020 or MBIO 2021] and [one of MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, or the former CHEM 2371].

MBIO 3282 Microbial Communities 3 cr 0.0  
The 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. May not be held with the former MBIO 2280 or the former MBIO 3280. Prerequisites: [MBIO 1010 or MBIO 1011] and [one of CHEM 1110, CHEM 1111, the former CHEM 1310, or the former CHEM 1311]. MBIO 2020, MBIO 2021, or MBIO 1410 are recommended prerequisites.

MBIO 3410 Molecular Biology 3 cr 0.0  
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 2700, MBIO 2701, CHEM 2700, CHEM 2701, MBIO 2730,

CHEM 2730, the former MBIO 2360, the former MBIO 2361, the former CHEM 2360, the former CHEM 2361, the former MBIO 2770, or the former CHEM 2770], and [one of MBIO 2020, MBIO 2021, BIOL 2520, BIOL 2521, BIOL 2500, BIOL 2501, or PLNT 2520].

MBIO 3430 Molecular Evolution 3 cr

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: one of MBIO 2020, MBIO 2021, MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, the former CHEM 2371, MBIO 2750, the former MBIO 2780, CHEM 2750, the former CHEM 2780, BIOL 2500, BIOL 2501, PLNT 2520, BIOL 2520, or BIOL 2521.

MBIO 3450 Regulation of Biochemical Processes 3 cr 0.0

Mechanisms of regulation of enzyme activity, including allostery, control of selected biosynthetic and degradative pathways and regulation of gene expression. May not be held with MBIO 3451. Prerequisites: [MBIO 2020 or MBIO 2021] and [one of MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, or the former CHEM 2371]; or consent of the department.

MBIO 3460 Membrane and Cellular Biochemistry 3 cr 0.0

(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 2710, MBIO 2711, CHEM 2710, CHEM 2711) and (CHEM 2720 or CHEM 2721)] or [one of the former MBIO 2370, the former MBIO 2371, the former CHEM 2370, or the former CHEM 2371].

MBIO 3472 Microbial Systematics 3 cr 0.0

Characterization and classification of the major group of micro-organisms. Bases for divisions and the relatedness among organisms will be studied. May not be held with the former MBIO 3470. Prerequisites: one of MBIO 3032, the former MBIO 3030, or MBIO 3031.

MBIO 3600 Molecular Microbiology Techniques 3 cr 0.0

A laboratory-based course, intended to teach the fundamental techniques required to work in a modern molecular microbiology laboratory. Students will develop a thorough understanding of the theory underpinning the techniques introduced in this course, laboratory skills in current molecular microbiology techniques, and application of techniques to investigate scientific questions, such as the identification of unknowns. Learning outcomes include development of technical skills, competency in following protocols, presentation of results and scientific writing. May not be held with the former MBIO 4600, MBIO 4601, or MBIO 4030 when titled Advanced Microbial Genetics Lab. Prerequisites: [MBIO 3410 or MBIO 3411]; and [(MBIO 2710, MBIO 2711, CHEM 2710, or CHEM 2711) and (CHEM 2720 or CHEM 2721)] or [one of the former MBIO 2370, the former MBIO 2371, the former CHEM 2370, or the former CHEM 2371].

MBIO 3700 Experimental Microbiology Lab 3 cr 0.0

This laboratory course will introduce students to the morphological and physiological study of microorganisms. Students will reinforce their basic laboratory skills while carrying out discovery-based experiments involving microscopy, antibiotic susceptibility testing, bacterial enumeration, physiology and identification. May not be held with the former MBIO 3030 or MBIO 3031. Prerequisites: MBIO 2020 or MBIO 2021; and [(MBIO 2700, MBIO 2701, CHEM 2700, or CHEM

2701) and (CHEM 2720 or CHEM 2721)] or [one of the former MBIO 2370, the former MBIO 2371, the former CHEM 2370, or the former CHEM 2371].

MBIO 4410 Virology 3 cr 0.0

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.

Prerequisites: [MBIO 3010 or MBIO 3011] and [MBIO 3410 or MBIO 3411] and [one of MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, or the former CHEM 2371].

MBIO 4480 Microbes in our Environment 3 cr 0.0

(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. May not be held with the former MBIO 3480 or the former MBIO 4320. Prerequisites: one of (MBIO 3032 and MBIO 3700) or (the former MBIO 3030 or MBIO 3031).

MBIO 4520 Industrial Bioprocesses 3 cr 0.0

(Lab required) The course will cover bioprocesses for a range of commercially important healthcare and industrial products. Topics will also include bioreactor design and control for these bioprocesses, metabolic engineering for product enhancement, applied engineering and downstream processing. This course may not be held for credit with the former MBIO 4510.

Prerequisites: one of (MBIO 3032 and MBIO 3700) or (the former MBIO 3030 or MBIO 3031).

MBIO 4540 Biological Energy Transduction 3 cr 0.0

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: one of MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, or the former CHEM 2371. MBIO 3032, the former MBIO 3030, or MBIO 3031 is recommended as a prerequisite to this course.

MBIO 4602 Molecular Genetics of Prokaryotes - Lectures 3 cr 0.0

A detailed examination of genetic mechanisms of replication, expression, mutability, repair and transposition of DNA in bacteria and their viruses, and their applications in recombinant DNA technology. The contribution of these genetic mechanisms to virulence in bacterial pathogens will also be examined. May not be held with MBIO 4603, the former MBIO 4600, or the former MBIO 4601. Prerequisites: [MBIO 2020 or MBIO 2021] and [MBIO 3410 or MBIO 3411].

MBIO 4612 Molecular Genetics of Eukaryotes - Lectures 3 cr 0.0

A comprehensive study dealing with replication and expression of DNA, genome structure, and the involvement of genes in diseases such as cancer. May not be held with the former MBIO 4610. Prerequisites: [MBIO 3410 or MBIO 3411] and [one of MBIO 2710, MBIO 2711, the former MBIO 2370, the former MBIO 2371, CHEM 2710, CHEM 2711, the former CHEM 2370, or the former CHEM 2371]. BIOL 2500 or BIOL 2501 is recommended.

**NET CHANGE IN CREDIT HOURS: +3.0**

Program modifications:

Modifications to the programs listed below are outlined on the next 13 pages:

- **Bachelor of Science (Honours) in Microbiology**
- **Bachelor of Science (Honours) in Microbiology, Co-operative Option**
- **Bachelor of Science (Major) in Microbiology**
- **Bachelor of Science (Major) in Microbiology, Co-operative Option**

## Microbiology, B.Sc. Honours

### Degree Requirements

#### Honours

Note<sup>1</sup>

<b>Year 1</b>		<b>Hours</b>
<u>MBIO 1010</u>	Microbiology I (B) <sup>2</sup>	3
<u>BIOL 1020</u>	Biology 1: Principles and Themes	3
<u>BIOL 1030</u>	Biology 2: Biological Diversity, Function and Interactions	3
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (C+)	3
<u>CHEM 1120</u>	Introduction to Chemical Techniques <sup>3</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 1-2</b>		
In Year 1 or Year 2 the following must be completed:		
3 credit hours of Mathematics or Physics chosen from:		3
<u>MATH 1240</u>	Elementary Discrete Mathematics <sup>4</sup>	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>4</sup>	
<u>MATH 1500</u>	Introduction to Calculus <sup>4</sup>	
<u>PHYS 1020</u>	General Physics 1	
	or <u>PHYS 1050</u> or Physics 1: Mechanics	
One of:		3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>5</sup>	
<u>STAT 1000</u>	Basic Statistical Analysis 1 <sup>5</sup>	
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
6 credit hours of electives		6
<del>3 credit hours of Microbiology courses</del> <b>3 credit hours from Microbiology courses or from the Option List (see below)</b>		3
<b>Hours</b>		<b>21</b>
<b>Year 2</b>		
<u>MBIO 2020</u>	Microbiology II	3
<u>MBIO/CHEM 2700</u>	Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy	3
<u>MBIO/CHEM 2710</u>	Biochemistry 2: Catabolism, Synthesis, and Information Pathways <sup>6</sup>	3

<u>CHEM 2720</u>	Principles and Practices of the Modern Biochemistry Laboratory	3
<u>BIOL 2500</u>	Genetics 1	3
<u>BIOL 2520</u>	Cell Biology	3
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
	<b>Hours</b>	<b>21</b>
<b>Year 3</b>		
<u>MBIO 3010</u>	Mechanisms of Microbial Disease	3
<u>MBIO 3032</u>	Microbiology III: Physiology and Metabolism	3
<u>MBIO 3410</u>	Molecular Biology	3
<u>MBIO 3600</u>	Molecular Microbiology Techniques	3
<u>MBIO 3700</u>	Experimental Microbiology Laboratory	3
	<b>Hours</b>	<b>15</b>
<b>Years 3-4</b>		
24 credit hours of Microbiology courses including (a single course may meet more than one of these requirements):		24
- One course from each of Lists A, B, C, D, and E (see below); <sup>7</sup>		
- 12 credit hours at the 4000-level;		
- 3 credit hour course with a laboratory or tutorial (List F) <sup>7</sup>		
12 credit hours from the Options List (see below)		12
3 credit hours of electives		3
	<b>Hours</b>	<b>39</b>
<b>Year 4</b>		
<u>MBIO 4530</u>	Project in Microbiology	6
	<b>Hours</b>	<b>6</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> MBIO 1220 and MBIO 1410 cannot be used to satisfy course requirements in a Major or Honours program.

<sup>2</sup> MBIO 1010 may be completed in either year 1 or year 2. It is recommended that it be completed in first year.

<sup>3</sup> CHEM 1126 may be taken in place of CHEM 1120.

<sup>4</sup> , 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 1200 may be used in place of MATH 1240.

<sup>5</sup> STAT 1150 is recommended over STAT 1000.

<sup>6</sup> It is strongly recommended that MBIO 2710 (or CHEM 2710) and CHEM 2720 be completed prior to Year 3 as they are prerequisite to many upper level MBIO courses.

<sup>7</sup> , **List A:** MBIO 2230, MBIO 3282, MBIO 3472, MBIO 4480, MBIO 4520;  
 , **List B:** MBIO 2420, MBIO 3000, MBIO 4020, **MBIO 4300**, MBIO 4410, MBIO 4520;

- **List C:** MBIO 3430, MBIO ~~4440~~ 4442, MBIO 4700;
- **List D:** MBIO 4602, MBIO 4612, MBIO 4672;
- **List E:** MBIO 3450, MBIO 3460, MBIO 4540;
- **List F:** MBIO 3460, MBIO ~~4440~~ 4442, MBIO 4480, MBIO 4520.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Honours Co-operative Option

### Note<sup>1,4</sup>

#### Year 1

		<b>Hours</b>
<u>MBIO 1010</u>	Microbiology I (B) <sup>2</sup>	3
<u>BIOL 1020</u>	Biology 1: Principles and Themes	3
<u>BIOL 1030</u>	Biology 2: Biological Diversity, Function and Interactions	3
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (C+)	3
<u>CHEM 1120</u>	Introduction to Chemical Techniques <sup>3</sup>	3
	<b>Hours</b>	<b>18</b>

#### Years 1-2

In Year 1 or Year 2 the following must be completed:

3 credit hours of Mathematics or Physics chosen from:		3
<u>MATH 1240</u>	Elementary Discrete Mathematics <sup>1</sup>	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>4</sup>	
<u>MATH 1500</u>	Introduction to Calculus <sup>4</sup>	
<u>PHYS 1020</u>	General Physics 1	
or <u>PHYS 1050</u>	or Physics 1: Mechanics	
One of:		3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>5</sup>	
<u>STAT 1000</u>	Basic Statistical Analysis 1 <sup>3</sup>	
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
6 credit hours of electives		6
3 credit hours from Microbiology courses or from the Option List (see below)		3
	<b>Hours</b>	<b>21</b>

#### Year 2

<u>MBIO 2020</u>	Microbiology II	3
<u>MBIO/CHEM 2700</u>	Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy	3
<u>MBIO/CHEM 2710</u>	Biochemistry 2: Catabolism, Synthesis, and Information Pathways <sup>6</sup>	3
<u>CHEM 2720</u>	Principles and Practices of the Modern Biochemistry Laboratory	3
<u>BIOL 2500</u>	Genetics 1	3



<u>BIOL 2520</u>	Cell Biology	3
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
	<b>Hours</b>	<b>21</b>
<b>Year 3</b>		
<u>MBIO 3010</u>	Mechanisms of Microbial Disease <sup>8</sup>	3
<u>MBIO 3032</u>	Microbiology III: Physiology and Metabolism	3
<u>MBIO 3410</u>	Molecular Biology <sup>8</sup>	3
<u>MBIO 3600</u>	Molecular Microbiology Techniques	3
<u>MBIO 3700</u>	Experimental Microbiology Laboratory	3
	<b>Hours</b>	<b>15</b>
<b>Years 3-4</b>		
	27 credit hours of Microbiology courses including (a single course may meet more than one of these requirements):	27
	- One course from each of Lists A, B, C, D, and E (see below); <sup>7</sup>	
	- 15 credit hours at the 4000-level;	
	- 3 credit hour course with a laboratory or tutorial (List F). <sup>7</sup>	
	15 credit hours from the Option List (see below)	15
	3 credit hours of electives	3
<b>Co-op Requirements:</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>45</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> MBIO 1220 and MBIO 1410 cannot be used to satisfy course requirements in a Major or Honours program.

<sup>2</sup> MBIO 1010 may be completed in either year 1 or year 2. It is recommended that it be completed in first year.

<sup>3</sup> CHEM 1126 may be taken in place of CHEM 1120.

<sup>4</sup> , 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 1200 may be used in place of MATH 1240.

<sup>5</sup> STAT 1150 is recommended over STAT 1000.

<sup>6</sup> It is strongly recommended that MBIO 2710 (or CHEM 2710) and CHEM 2720 be completed prior to Year 3 as they are prerequisite to many upper level MBIO courses.

<sup>7</sup> , **List A:** MBIO 2230, MBIO 3282, MBIO 3472, MBIO 4480, MBIO 4520;  
 , **List B:** MBIO 2420, MBIO 3000, MBIO 4020, **MBIO 4300**, MBIO 4410, MBIO 4520;

- **List C:** MBIO 3430, MBIO 4440-4442, MBIO 4700;
- **List D:** MBIO 4602, MBIO 4612, MBIO 4672;
- **List E:** MBIO 3450, MBIO 3460, MBIO 4540;
- **List F:** MBIO 3460, MBIO 4440-4442, MBIO 4480, MBIO 4520.

• Students in the Co-operative Option must complete MBIO 3010 and MBIO 3410 before their first employment term.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## OPTION LIST FOR ALL MICROBIOLOGY PROGRAMS

### Agroecology

Course	Title	Hours
<u>AGEC 2370</u>	Principles of Ecology	3

### Biological Sciences

Course	Title	Hours
<u>BIOL 2242</u>	The Flowering Plants	3
<u>BIOL 2260</u>	Biology of Fungi and Lichens	3
<u>BIOL 2261</u>	Les champignons et les lichens	3
<u>BIOL 2300</u>	Principles of Ecology	3
<u>BIOL 2301</u>	Principes d'écologie	3
<u>BIOL 2380</u>	Introductory Toxicology	3
<u>BIOL 2381</u>	Introduction à la toxicologie	3
<u>BIOL 2410</u>	Human Physiology 1	3
<u>BIOL 2411</u>	Physiologie du corps humain 1	3
<u>BIOL 2420</u>	Human Physiology 2	3
<u>BIOL 2421</u>	Physiologie du corps humain 2	3
<u>BIOL 3260</u>		
<u>BIOL 3290</u>	Medicinal and Hallucinogenic Plants	3
<u>BIOL 3291</u>	Plantes médicinales et hallucinogènes	3
<u>BIOL 3330</u>		
<u>BIOL 3370</u>	Limnology	3
<u>BIOL 3400</u>	Plant Physiology	3
<u>BIOL 3450</u>		
<u>BIOL 3452</u>	Environmental Plant Physiology	3
<u>BIOL 3460</u>		
<u>BIOL 3462</u>		
<u>BIOL 3470</u>	Environmental Physiology of Animals 1	3
<u>BIOL 3472</u>	Environmental Physiology of Animals 2	3
<u>BIOL 3500</u>	Genetics 2	3
<u>BIOL 3501</u>	Génétique 2	3
<u>BIOL 3542</u>	Developmental Biology	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>BIOL 3560</u>	Comparative Animal Histology	3
<u>BIOL 3561</u>	<del>Histologie animale comparée</del>	<del>3</del>
<u>BIOL 4242</u>		
<u>BIOL 4244</u>		
<u>BIOL 4246</u>		
<u>BIOL 4430</u>		
<u>BIOL 4480</u>	Comparative Endocrinology	3
<u>BIOL 4540</u>	Developmental Molecular Biology	3
<u>BIOL 4542</u>	Genes and Development	3
One of:		3
<u>BIOL 4544</u>	Advanced Developmental and Cellular Biology	<u>3</u>
<del>BIOL 3540</del>	<del>Course no longer offered</del>	
<u>BIOL 4554</u>	Molecular Biology Techniques for Eukaryotes - DNA	3
<u>BIOL 4556</u>	Molecular Biology Techniques for Eukaryotes - RNA	3
<u>BIOL 4560</u>	Microtechnique	3

### Chemistry

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>CHEM 2110</u>	Organic Chemistry 2: Foundations of Organic Synthesis	3
<u>CHEM 2122</u>	Experimental Organic Chemistry	3
One of:		3
<u>CHEM 2600</u>	Physical Chemistry 1	<u>3</u>
<del>CHEM 2260</del>	<del>Course no longer offered</del>	
<del>CHEM 2280</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3600</u>	Physical Chemistry 2	<u>3</u>
<del>CHEM 2290</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 2300</u>	Inorganic Chemistry 1: Structure and Applications	<u>3</u>
<del>CHEM 2400</del>	<del>Course no longer offered</del>	
<del>CHEM 2380</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 2510</u>	Introduction to Analytical Chemistry	<u>3</u>
<del>CHEM 2470</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3100</u>	Organic Chemistry 3: Advanced Organic Synthesis	<u>3</u>
<del>CHEM 3390</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3500</u>	Instrumental Analysis	<u>3</u>
<del>CHEM 3590</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3700</u>	Biophysical Chemistry	<u>3</u>

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<del>CHEM 3570</del>	<del>Course no longer offered</del>	
<u>CHEM 4590</u>	Bioanalytical Methods	3
<u>CHEM 4360</u>	Signalling and Regulation of Gene Expression	3
<u>CHEM 4370</u>	Glycobiology and Protein Activation	3
<u>CHEM 4620</u>	Biochemistry of Nucleic Acids	3
<u>CHEM 4630</u>	Biochemistry of Proteins	3
<u>CHEM 4670</u>	Drug Design and Drug Discovery	3

#### **Environmental Science**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>ENVR 2180</u>	Introductory Toxicology	3

#### **Food Sciences**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>FOOD 4150</u>	Food Microbiology 1	3
<del>FOOD-4280</del>		

#### **General Agriculture**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>AGRI 2180</u>	Introductory Toxicology	3

#### **Pharmacology**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>PHAC 4030</u>	Drugs in Human Disease I	3
<u>PHAC 4040</u>	Drugs in Human Disease II	3

#### **Plant Science**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>PLNT 3400</u>	Plant Physiology	3

#### **Statistics**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>STAT 2000</u>	Basic Statistical Analysis 2	3
or <u>STAT 2150</u>	Statistics and Computing	

**Note:** Other suitable options may be selected with permission of the department.

# Microbiology, B.Sc. Major

## Degree Requirements

### Four Year Major (Including Co-operative Option if Selected)<sup>1,7,8</sup>

Year 1		<b>Hours</b>
<u>MBIO 1010</u>	Microbiology I (C+) <sup>2</sup>	3
<u>BIOL 1020</u>	Biology 1: Principles and Themes	3
<u>BIOL 1030</u>	Biology 2: Biological Diversity, Function and Interactions	3
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (C+)	3
<u>CHEM 1120</u>	Introduction to Chemical Techniques <sup>3</sup>	3
<b>Hours</b>		<b>18</b>
<b>Years 1-2</b>		
In Year 1 or Year 2 the following must be completed:		
3 credit hours of Mathematics or Physics chosen from:		3
<u>MATH 1240</u>	Elementary Discrete Mathematics <sup>4</sup>	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>4</sup>	
<u>MATH 1500</u>	Introduction to Calculus <sup>4</sup>	
<u>PHYS 1020</u>	General Physics 1	
or <u>PHYS 1050</u>	or Physics 1: Mechanics	
One of:		3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>5</sup>	
<u>STAT 1000</u>	Basic Statistical Analysis 1 <sup>5</sup>	
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
9 credit hours of electives		9
<b>Hours</b>		<b>21</b>

### Year 2

<u>MBIO 2020</u>	Microbiology II	3
<u>MBIO/CHEM 2700</u>	Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy	3
<u>MBIO/CHEM 2710</u>	Biochemistry 2: Catabolism, Synthesis, and Information Pathways <sup>6</sup>	3
<u>CHEM 2720</u>	Principles and Practices of the Modern Biochemistry Laboratory	3
<u>BIOL 2500</u>	Genetics 1	3
<u>BIOL 2520</u>	Cell Biology	3
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
	<b>Hours</b>	<b>21</b>
<b>Years 3-4</b>		
<u>MBIO 3010</u>	Mechanisms of Microbial Disease <sup>7</sup>	3
<u>MBIO 3032</u>	Microbiology III: Physiology and Metabolism	3
<u>MBIO 3410</u>	Molecular Biology <sup>7</sup>	3
<u>MBIO 3600</u>	Molecular Microbiology Techniques	3
<u>MBIO 3700</u>	Experimental Microbiology Laboratory	3
	24 credit hours of Microbiology courses including 15 credit hours at the 4000 level	24
	9 credit hours of Microbiology courses or courses chosen from the option list (see below) <sup>9</sup>	9
	12 credit hours of electives	12
<b>Co-op Requirements (if selected): <sup>7</sup></b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>60</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> MBIO 1220 and MBIO 1410 cannot be used to satisfy course requirements in a Major or Honours program.

- <sup>2</sup> MBIO 1010 may be completed in either Year 1 or Year 2. It is recommended that it be completed in the first year.
- <sup>3</sup> CHEM 1126 may be taken in place of CHEM 1120.
- <sup>4</sup> , 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 1200 may be used in place of MATH 1240.
- <sup>5</sup> STAT 1150 is recommended over STAT 1000.
- <sup>6</sup> It is strongly recommended that MBIO 2710 (or CHEM 2710) and CHEM 2720 be completed prior to Year 3 as they are prerequisite to many upper level MBIO courses.
- <sup>7</sup> Students in the Co-operative Option must completed MBIO 3010 and MBIO 3410 before their first employment term.
- <sup>8</sup> IMPORTANT: The four year Major program need not be completed in the manner prescribed in the grid above. The grid indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.
- <sup>9</sup> MBIO 4530 may be selected only by special permission.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## OPTION LIST FOR ALL MICROBIOLOGY PROGRAMS

### Agroecology

Course	Title	Hours
<u>AGEC 2370</u>	Principles of Ecology	3

### Biological Sciences

Course	Title	Hours
<u>BIOL 2242</u>	The Flowering Plants	3
<u>BIOL 2260</u>	Biology of Fungi and Lichens	3
<del><u>BIOL 2264</u></del>	<del>Les champignons et les lichens</del>	<del>3</del>
<u>BIOL 2300</u>	Principles of Ecology	3
<del><u>BIOL 2304</u></del>	<del>Principes d'écologie</del>	<del>3</del>
<u>BIOL 2380</u>	Introductory Toxicology	3
<del><u>BIOL 2384</u></del>	<del>Introduction à la toxicologie</del>	<del>3</del>
<u>BIOL 2410</u>	Human Physiology 1	3
<del><u>BIOL 2414</u></del>	<del>Physiologie du corps humain 1</del>	<del>3</del>
<u>BIOL 2420</u>	Human Physiology 2	3
<del><u>BIOL 2424</u></del>	<del>Physiologie du corps humain 2</del>	<del>3</del>
<del><u>BIOL 3260</u></del>		
<u>BIOL 3290</u>	Medicinal and Hallucinogenic Plants	3

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>BIOL 3291</u>	<del>Plantes médicinales et hallucinogènes</del>	<del>3</del>
<u>BIOL 3330</u>		
<u>BIOL 3370</u>	Limnology	3
<u>BIOL 3400</u>	Plant Physiology	3
<u>BIOL 3450</u>		
<u>BIOL 3452</u>	Environmental Plant Physiology	3
<u>BIOL 3460</u>		
<u>BIOL 3462</u>		
<u>BIOL 3470</u>	Environmental Physiology of Animals 1	3
<u>BIOL 3472</u>	Environmental Physiology of Animals 2	3
<u>BIOL 3500</u>	Genetics 2	3
<u>BIOL 3501</u>	<del>Génétique 2</del>	<del>3</del>
<u>BIOL 3542</u>	Developmental Biology	3
<u>BIOL 3560</u>	Comparative Animal Histology	3
<u>BIOL 3561</u>	<del>Histologie animale comparée</del>	<del>3</del>
<u>BIOL 4242</u>		
<u>BIOL 4244</u>		
<u>BIOL 4246</u>		
<u>BIOL 4430</u>		
<u>BIOL 4480</u>	Comparative Endocrinology	3
<u>BIOL 4540</u>	Developmental Molecular Biology	3
<u>BIOL 4542</u>	Genes and Development	3
<u>One of:</u>		<del>3</del>
<u>BIOL 4544</u>	Advanced Developmental and Cellular Biology	<u>3</u>
<u>BIOL 3540</u>	<del>Course no longer offered</del>	
<u>BIOL 4554</u>	Molecular Biology Techniques for Eukaryotes - DNA	3
<u>BIOL 4556</u>	Molecular Biology Techniques for Eukaryotes - RNA	3
<u>BIOL 4560</u>	Microtechnique	3

### Chemistry

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>CHEM 2110</u>	Organic Chemistry 2: Foundations of Organic Synthesis	3
<u>CHEM 2122</u>	Experimental Organic Chemistry	3
<u>One of:</u>		<del>3</del>
<u>CHEM 2600</u>	Physical Chemistry 1	<u>3</u>
<u>CHEM 2260</u>	<del>Course no longer offered</del>	
<u>CHEM 2280</u>	<del>Course no longer offered</del>	
<u>One of:</u>		<del>3</del>
<u>CHEM 3600</u>	Physical Chemistry 2	<u>3</u>
<u>CHEM 2290</u>	<del>Course no longer offered</del>	
<u>One of:</u>		<del>3</del>
<u>CHEM 2300</u>	Inorganic Chemistry 1: Structure and Applications	<u>3</u>



Course	Title	Hours
<del>CHEM 2400</del>	<del>Course no longer offered</del>	
<del>CHEM 2380</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 2510</u>	Introduction to Analytical Chemistry	3
<del>CHEM 2470</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3100</u>	Organic Chemistry 3: Advanced Organic Synthesis	3
<del>CHEM 3390</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3500</u>	Instrumental Analysis	3
<del>CHEM 3590</del>	<del>Course no longer offered</del>	
One of:		3
<u>CHEM 3700</u>	Biophysical Chemistry	3
<del>CHEM 3570</del>	<del>Course no longer offered</del>	
<u>CHEM 4590</u>	Bioanalytical Methods	3
<u>CHEM 4360</u>	Signalling and Regulation of Gene Expression	3
<u>CHEM 4370</u>	Glycobiology and Protein Activation	3
<u>CHEM 4620</u>	Biochemistry of Nucleic Acids	3
<u>CHEM 4630</u>	Biochemistry of Proteins	3
<u>CHEM 4670</u>	Drug Design and Drug Discovery	3

#### Environmental Science

Course	Title	Hours
<u>ENVR 2180</u>	Introductory Toxicology	3

#### Food Sciences

Course	Title	Hours
<u>FOOD 4150</u>	Food Microbiology 1	3
<u>FOOD 4280</u>		

#### General Agriculture

Course	Title	Hours
<u>AGRI 2180</u>	Introductory Toxicology	3

#### Pharmacology

Course	Title	Hours
<u>PHAC 4030</u>	Drugs in Human Disease I	3
<u>PHAC 4040</u>	Drugs in Human Disease II	3

#### Plant Science

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>PLNT 3400</u>	Plant Physiology	3

**Statistics**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<u>STAT 2000</u>	Basic Statistical Analysis 2	3
or <u>STAT 2150</u>	Statistics and Computing	

**Note:** Other suitable options may be selected with permission of the department.

## Physics and Astronomy

### Modifications:

ASTR 1810 Introduction to Astronomy: The Magnificent Universe 3 cr 0.0  
(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), PSKL 0100 (P), PHYS 1018, or equivalent) and (one of Pre-calculus Mathematics 40S (70% or better), Applied Mathematics 40S (70% or better), MSKL 0100, MATH 1018, 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 1020 General Physics 1 3 cr 0.0  
(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), PHYS 1018, or equivalent) and (one of Pre-calculus Mathematics 40S, Applied Mathematics 405 (with 70% or better), MSKL 0100, MATH 1018, 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 1050 - Physics 1: Mechanics 3 cr 0.0  
(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), PSKL 0100 (P), PHYS 1018, 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 3670 Classical Thermodynamics 3 cr 0.0  
An introduction to the laws of classical thermodynamics and their applications. Descriptions of the states of thermodynamic systems primarily at or near equilibrium that use measurable macroscopic properties, but also including discussion of some far-from-equilibrium stationary states, will be developed. The physics will be used to model exchanges of matter and energy for both reversible and irreversible processes in a variety of physical systems. Prerequisites: [one

of PHYS 2496, PHYS 2490, or MATH 3132] and PHYS 2650. PHYS 2386 is strongly recommended.

PHYS 4400 Linear Systems for Imaging 3 cr 0.0  
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.

**NET CHANGE IN CREDIT HOURS: 0.0**

Program modifications:

Modifications to the following programs are outlined on the next 17 pages:

- **Bachelor of Science (Honours) in Physics and Astronomy, Astronomy and Astrophysics**
- **Bachelor of Science (Honours) in Physics and Astronomy, Astronomy and Astrophysics, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Physics**
- **Bachelor of Science (Honours) in Physics and Astronomy, Physics, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Medical and Biological, Co-operative Option**
- **Bachelor of Science (Honours) in Physics and Astronomy, Medical and Biological, Co-operative Option**
  
- **Bachelor of Science (Major) in Physics and Astronomy**
- **Bachelor of Science (Major) in Physics and Astronomy, Co-operative Option**
  
- **Bachelor of Science (Joint Honours) in Chemistry and Physics**
- **Bachelor of Science (Joint Honours) in Computer Science and Physics and Astronomy**
- **Bachelor of Science (Joint Honours) in Computer Science and Physics and Astronomy, Co-operative Option**
- **Bachelor of Science (Joint Honours) in Mathematics and Physics and Astronomy**
- **Bachelor of Science (Joint Honours) in Mathematics and Physics and Astronomy, Co-operative Option**

## Honours: Astronomy and Astrophysics (Including Co-operative Option if Selected)

Note<sup>1</sup>

	<b>Hours</b>
<b>Year 1</b>	
One of: <sup>2</sup>	3
<u>PHYS 1050</u> Physics 1: Mechanics	
<u>PHYS 1020</u> General Physics 1	
One of: <sup>2</sup>	3
<u>PHYS 1070</u> Physics 2: Waves and Modern Physics (B)	
<u>PHYS 1030</u> General Physics 2 (B+)	
<u>MATH 1300</u> Vector Geometry and Linear Algebra <sup>2</sup>	3
<u>MATH 1500</u> Introduction to Calculus <sup>2</sup>	3
<u>MATH 1700</u> Calculus 2 <sup>2</sup>	3
<u>ASTR 1810</u> Introduction to Astronomy: The Magnificent Universe	3
<u>COMP 1012</u> Computer Programming for Scientists and Engineers <sup>3</sup>	3
6 credit hours from the Faculty of Arts including the "W" requirement	6
3 credit hours of open electives <sup>4,5</sup>	3
<b>Hours</b>	<b>30</b>
<b>Year 2</b>	
<u>PHYS 2600</u> Electromagnetic Field Theory	3
<u>PHYS 2650</u> Classical Mechanics 1	3
<u>PHYS 2386</u> Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u> Mathematical Physics 1	3
<u>PHYS 2260</u> Optics	3
or <u>PHYS 2610</u> or Circuit Theory and Introductory Electronics	
<u>ASTR 2000</u> Foundations of Astrophysics	3
<u>ASTR 2070</u> Observational Astronomy Techniques	3
<u>MATH 2090</u> Linear Algebra 2	3
<u>MATH 2720</u> Multivariable Calculus	3
3 credit hours of open electives <sup>5,6</sup>	3
<b>Hours</b>	<b>30</b>
<b>Year 3</b>	
<u>PHYS 3386</u> Quantum Mechanics 2	3
<u>PHYS 3430</u> Honours Physics Laboratory	6
<u>PHYS 3496</u> Mathematical Physics 2	3
<u>PHYS 3630</u> Electro - and Magnetostatic Theory	3
<u>PHYS 3650</u> Classical Mechanics 2	3
<u>PHYS 3670</u> Classical Thermodynamics	3
<u>ASTR 3180</u> Stars	3
<u>ASTR 3230</u> The Phenomenology of Galaxies	3
3 credit hours of open electives <sup>5,6,7</sup>	3
<b>Hours</b>	<b>30</b>

**Years 3-4**

**Co-op Requirements (if selected):**

<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>0</b>
<b>Year 4</b>		
<u>PHYS 4386</u>	Quantum Mechanics 3	3
<u>PHYS 4646</u>	Electro - and Magnetodynamics and Special Relativity	3
<u>PHYS 4676</u>	Honours Thesis - Proposal and Preparation	3
<u>PHYS 4678</u>	Honours Thesis - Dissertation	3
<u>PHYS 4680</u>	Statistical Mechanics	3
One of:		3
<u>PHYS 4010</u>	General Relativity and Gravitation	
<u>PHYS 4250</u>	Computational Physics	
<u>PHYS 4516</u>	Introduction to Nuclear and Particle Physics	
Two of:		6
<u>ASTR 4020</u>	Cosmology and Black Holes	
<u>ASTR 4100</u>	High-Energy Astrophysics	
<u>ASTR 4200</u>	Radio Astronomy	
<u>ASTR 4400</u>	Magnetohydrodynamics, Astrophysical Plasmas, and the Interstellar Medium	
6 credit hours of open electives <sup>5,6</sup>		6
	<b>Hours</b>	<b>30</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Students must achieve a minimum grade of "C" in all courses contributing to the Honours program.

- <sup>2</sup> , 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.

<sup>3</sup> 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.

<sup>4</sup> ASTR 1830 is recommended.

<sup>5</sup> PHYS 1018 may not count towards the 120 credit hours required for this degree.

<sup>5,6</sup> 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.

<sup>6,7</sup> ASTR 3070 is recommended.

**IMPORTANT:** The Honours program need not be completed in the manner prescribed in the grid above. The grid 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.)

## Honours: Physics (Including Co-operative Option if Selected)

Note<sup>1</sup>

<b>Year 1</b>		<b>Hours</b>
One of: <sup>2</sup>		3
<u>PHYS 1050</u>	Physics 1: Mechanics	
<u>PHYS 1020</u>	General Physics 1	
One of: <sup>2</sup>		3
<u>PHYS 1070</u>	Physics 2: Waves and Modern Physics (B)	
<u>PHYS 1030</u>	General Physics 2 (B+)	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>2</sup>	3
<u>MATH 1500</u>	Introduction to Calculus <sup>2</sup>	3
<u>MATH 1700</u>	Calculus 2 <sup>2</sup>	3
<u>COMP 1012</u>	Computer Programming for Scientists and Engineers <sup>3</sup>	3
6 credit hours from the Faculty of Arts including the "W" requirement		6
6 credit hours of open electives <sup>4</sup>		6
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
<u>PHYS 2260</u>	Optics	3
or <u>PHYS 2610</u>	or Circuit Theory and Introductory Electronics	
<u>PHYS 2386</u>	Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u>	Mathematical Physics 1	3
<u>PHYS 2600</u>	Electromagnetic Field Theory	3
<u>PHYS 2650</u>	Classical Mechanics 1	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2720</u>	Multivariable Calculus	3
9 credit hours of open electives <sup>4,5</sup>		9
<b>Hours</b>		<b>30</b>
<b>Year 3</b>		
<u>PHYS 3386</u>	Quantum Mechanics 2	3
<u>PHYS 3430</u>	Honours Physics Laboratory	6
<u>PHYS 3650</u>	Classical Mechanics 2	3
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>PHYS 3496</u>	Mathematical Physics 2	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
9 credit hours of open electives <sup>4,5</sup>		9
<b>Hours</b>		<b>30</b>
<b>Years 3-4</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>		<b>0</b>



**Year 4**

<u>PHYS 4676</u>	Honours Thesis - Proposal and Preparation	3
<u>PHYS 4678</u>	Honours Thesis - Dissertation	3
<u>PHYS 4386</u>	Quantum Mechanics 3	3
<u>PHYS 4646</u>	Electro - and Magnetodynamics and Special Relativity	3
<u>PHYS 4680</u>	Statistical Mechanics	3
6 credit hours of 4000-level Physics		6
9 credit hours of open electives <sup>4,5</sup>		9
<b>Hours</b>		<b>30</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Students must achieve a minimum grade of "C" in all courses contributing to the Honours program.

- <sup>2</sup>
- 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.

<sup>3</sup> 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.

<sup>4</sup> **PHYS 1018 may not count towards the 120 credit hours required for this degree.**

<sup>4,5</sup> 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.

**IMPORTANT:** The Honours program need not be completed in the manner prescribed in the grid above. The grid 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.)

## Honours: Medical and Biological (Including Co-operative Option if Selected)

Note<sup>1</sup>

<b>Year 1</b>		<b>Hours</b>
One of: <sup>2</sup>		3
<u>PHYS 1050</u>	Physics 1: Mechanics	
<u>PHYS 1020</u>	General Physics 1	
One of: <sup>2</sup>		3
<u>PHYS 1070</u>	Physics 2: Waves and Modern Physics (B)	
<u>PHYS 1030</u>	General Physics 2 (B+)	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>2</sup>	3
<u>MATH 1500</u>	Introduction to Calculus <sup>2</sup>	3
<u>MATH 1700</u>	Calculus 2 <sup>2</sup>	3
<u>BIOL 1020</u>	Biology 1: Principles and Themes	3
<u>BIOL 1030</u>	Biology 2: Biological Diversity, Function and Interactions	3
<u>COMP 1012</u>	Computer Programming for Scientists and Engineers <sup>3</sup>	3
6 credit hours	from the Faculty of Arts including the "W" requirement	6
	<b>Hours</b>	<b>30</b>
<b>Year 2</b>		
<u>PHYS 2386</u>	Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u>	Mathematical Physics 1	3
<u>PHYS 2600</u>	Electromagnetic Field Theory	3
<u>PHYS 2610</u>	Circuit Theory and Introductory Electronics	3
<u>PHYS 2650</u>	Classical Mechanics 1	3
<u>PHYS 2270</u>	Introductory Physics for Life Sciences: Fundamentals and Applications	3
or <u>PHYS 2272</u>	or Physics for Medicine & Biology	
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2720</u>	Multivariable Calculus	3
6 credit hours	of open electives <sup>4</sup>	6
	<b>Hours</b>	<b>30</b>
<b>Year 3</b>		
<u>PHYS 3220</u>	Medical Physics and Physiological Measurement	3
<u>PHYS 3386</u>	Quantum Mechanics 2	3
<u>PHYS 3430</u>	Honours Physics Laboratory	6
<u>PHYS 3496</u>	Mathematical Physics 2	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>4,5</sup>	3
6 credit hours	of open electives <sup>4</sup>	6
	<b>Hours</b>	<b>30</b>
<b>Years 3-4</b>		
<b>Co-op Requirements (if selected):</b>		

<u>SCI 3980</u>	Co-operative Education Work Term 1	0
<u>SCI 3990</u>	Co-operative Education Work Term 2	0
<u>SCI 4980</u>	Co-operative Education Work Term 3	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>0</b>
<b>Year 4</b>		
<u>PHYS 4250</u>	Computational Physics	3
<u>PHYS 4360</u>	Medical Radiation Physics	3
or <u>PHYS 4400</u> or <del>Medical Imaging</del>	<b>Linear Systems for Imaging</b>	
<u>PHYS 4516</u>	Introduction to Nuclear and Particle Physics	3
<u>PHYS 4646</u>	Electro - and Magnetodynamics and Special Relativity	3
<u>PHYS 4676</u>	Honours Thesis - Proposal and Preparation	3
<u>PHYS 4678</u>	Honours Thesis - Dissertation	3
<u>PHYS 4680</u>	Statistical Mechanics	3
9 credit hours of open electives <sup>4</sup>		9
	<b>Hours</b>	<b>30</b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Students must achieve a minimum grade of "C" in all courses contributing to the Honours program.

- <sup>2</sup> , 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.

<sup>3</sup> 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.

<sup>4</sup> **PHYS 1018 may not count towards the 120 credit hours required for this degree.**

<sup>4.5</sup> Students may take STAT 1000 and STAT 2000 in lieu of STAT 1150.

**IMPORTANT:** The Honours program need not be completed in the manner prescribed in the grid above. The grid 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.)

## Degree Requirements

### Four Year Major (Including Co-operative Option if Selected)

	<b>Hours</b>
<b>Year 1</b>	
One of: <sup>1</sup>	3
<u>PHYS 1050</u> Physics 1: Mechanics (C+)	
<u>PHYS 1020</u> General Physics 1 (B)	
One of: <sup>1,2</sup>	3
<u>PHYS 1070</u> Physics 2: Waves and Modern Physics (C+)	
<u>PHYS 1030</u> General Physics 2 (B)	
<u>MATH 1300</u> Vector Geometry and Linear Algebra <sup>1</sup>	3
<u>MATH 1500</u> Introduction to Calculus <sup>1</sup>	3
<u>MATH 1700</u> Calculus 2 <sup>1</sup>	3
<u>COMP 1012</u> Computer Programming for Scientists and Engineers <sup>1</sup>	3
6 credit hours from the Faculty of Arts including the "W" requirement	6
6 credit hours of electives <sup>4</sup>	6
<b>Hours</b>	<b>30</b>
<b>Year 2</b>	
One of: <sup>2</sup>	3
<u>PHYS 2260</u> Optics	
<u>PHYS 2610</u> Circuit Theory and Introductory Electronics	
<u>PHYS 2386</u> Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u> Mathematical Physics 1	3
<u>PHYS 2600</u> Electromagnetic Field Theory	3
<u>MATH 2720</u> Multivariable Calculus	3
15 credit hours of electives <sup>4,5</sup>	15
<b>Hours</b>	<b>30</b>
<b>Year 3</b>	
<u>PHYS 2650</u> Classical Mechanics 1 <sup>2</sup>	3
<u>PHYS 3670</u> Classical Thermodynamics	3
<u>PHYS 3496</u> Mathematical Physics 2	3
<u>MATH 2090</u> Linear Algebra 2	3
<b>Hours</b>	<b>12</b>
<b>Years 3-4</b>	
12 credit hours of 3000 and/or 4000 level Physics and Astronomy courses, with at least 3 credit hours at the 4000 level	12
24 credit hours of electives <sup>4,5</sup>	24
<b>Co-op Requirements (if selected):</b>	
<u>SCI 3980</u> Co-operative Education Work Term 1	0
<u>SCI 3990</u> Co-operative Education Work Term 2	0
<u>SCI 4980</u> Co-operative Education Work Term 3	0

<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected)	0
	<b>Hours</b>	<b>36</b>
<b>Year 4</b>		
<u>PHYS 3386</u>	Quantum Mechanics 2	3
<u>PHYS 3430</u>	Honours Physics Laboratory	6
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
	<b>Hours</b>	<b>12</b>
	<b>Total Hours</b>	<b>120</b>

- <sup>1</sup>
  - 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.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> **PHYS 1018 may not count towards the 120 credit hours required for this degree.**
- <sup>4,5</sup> 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.

**IMPORTANT:** The four year Major program need not be completed in the manner prescribed in the grid above. The grid 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.)

## Degree Requirements

### Joint Honours<sup>1,2</sup>

Year 1		Hours
<u>CHEM 1100</u>	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics (B)	3
<u>CHEM 1110</u>	Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties (B)	3
<u>CHEM 1120</u>	Introduction to <del>Chemical</del> <b>Chemistry</b> Techniques <sup>+3</sup>	3
Select one of the following: <sup>-2,4</sup>		3
<u>PHYS 1050</u>	Physics 1: Mechanics (B)	
<u>PHYS 1020</u>	General Physics 1 (B+)	
Select one of the following: <sup>2-4</sup>		3
<u>PHYS 1070</u>	Physics 2: Waves and Modern Physics (B)	
<u>PHYS 1030</u>	General Physics 2 (B+)	
<u>MATH 1300</u>	Vector Geometry and Linear Algebra <sup>3-5</sup>	3
<u>MATH 1500</u>	Introduction to Calculus (B) <sup>-2,5</sup>	3
<u>MATH 1700</u>	Calculus 2 (B) <sup>3-5</sup>	3
6 credit hours from the Faculty of Arts, which should include the required "W" course		6
<b>Hours</b>		<b>30</b>
Year 2		Hours
<u>CHEM 2100</u>	Organic Chemistry 1: Foundations of Organic Chemistry	3
<u>CHEM 2122</u>	Experimental Organic Chemistry	3
<u>CHEM 2300</u>	Inorganic Chemistry 1: Structure and Applications	3
<u>CHEM 2510</u>	Introduction to Analytical Chemistry	3
<u>CHEM 2520</u>	Introduction to Analytical Chemistry Techniques	2
<u>MATH 2720</u>	Multivariable Calculus	3
<u>PHYS 2386</u>	Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u>	Mathematical Physics 1	3
<u>PHYS 2600</u>	<del>Electromagnetic Field Theory</del>	<del>3</del>
<u>PHYS 2650</u>	Classical Mechanics 1	3
<b>3 credit hours of electives<sup>2</sup></b>		<b>3</b>
<b>Hours</b>		<b>29</b>
Year 3		Hours
<u>CHEM 2110</u>	Organic Chemistry 2: Foundations of Organic Synthesis	3
<u>CHEM 2600</u>	Physical Chemistry 1	3
<u>CHEM 3300</u>	Inorganic Chemistry 2: Reactivity and Properties	3
<u>CHEM 3320</u>	<del>Inorganic Chemistry Laboratory</del>	<del>2</del>
<u>CHEM 3500</u>	Instrumental Analysis	3
<u>CHEM 3520</u>	<del>Instrumental Analysis Laboratory</del>	<del>2</del>

<u>PHYS 2260</u>	Optics	3
or <u>PHYS 2610</u>	or Circuit Theory and Introductory Electronics	
<b><u>PHYS 2600</u></b>	<b><u>Electromagnetic Field Theory</u></b>	<b><u>3</u></b>
<u>PHYS 3386</u>	Quantum Mechanics 2	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory	3
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>PHYS 3496</u>	Mathematical Physics 2	3
	<b>Hours</b>	<b><u>30</u></b>
<b>Year 4</b>		
<b><u>CHEM 3320</u></b>	<b><u>Inorganic Chemistry Laboratory</u></b>	<b><u>2</u></b>
<b><u>CHEM 3520</u></b>	<b><u>Instrumental Analysis Laboratory</u></b>	<b><u>2</u></b>
<u>CHEM 4610</u>	Advanced Chemical Techniques	6
Select one of the following:		6
<u>CHEM 4710</u>	Research Project in Chemistry or Biochemistry	
<u>PHYS 4676</u>	Honours Thesis - Proposal and Preparation	
& <u>PHYS 4678</u>	and Honours Thesis - Dissertation	
<u>PHYS 4386</u>	Quantum Mechanics 3	3
<u>PHYS 4680</u>	Statistical Mechanics	3
3 credit hours of 3000/4000 level Physics courses		3
<b>9 6</b> credit hours of electives <sup>2</sup>		<b><u>6 9</u></b>
	<b>Hours</b>	<b><u>31</u></b>
	<b>Total Hours</b>	<b>120</b>

<sup>1</sup> **IMPORTANT: The four year joint honours program need not be completed in the manner prescribed in the grid above. The grid indicates the recommended arrangement of the required courses and is meant to be a guide around which students can plan their program.**

<sup>2</sup> **CHEM 1018, CHEM 2523, CHEM 3331, and PHYS 1018 may not count towards the 120 credit hours required for this degree.**

<sup>3</sup> CHEM 1122 and CHEM 1126 may be used in lieu of CHEM 1120. Note: CHEM 1122 is only available to Price Faculty of Engineering students.

<sup>24</sup> Students are advised to take PHYS 1050 and PHYS 1070.

<sup>25</sup> , 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.

(Letters in brackets indicate minimum prerequisite standing for further study.)

## Degree Requirements

### Joint Honours (Including Co-operative Option if Selected)

	<b>Hours</b>
<b>Year 1</b>	
One of:	3
<u>PHYS 1050</u> Physics 1: Mechanics (B) <sup>1</sup>	
<u>PHYS 1020</u> General Physics 1 (B+)	
One of:	3
<u>PHYS 1070</u> Physics 2: Waves and Modern Physics (B) <sup>1</sup>	
<u>PHYS 1030</u> General Physics 2 (B+)	
One of:	3
<u>COMP 1010</u> Introductory Computer Science 1 (B)	
<u>COMP 1012</u> Computer Programming for Scientists and Engineers (B)	
<u>COMP 1020</u> Introductory Computer Science 2 (B)	3
<u>MATH 1300</u> Vector Geometry and Linear Algebra (B) <sup>2</sup>	3
<u>MATH 1500</u> Introduction to Calculus (B) <sup>2</sup>	3
<u>MATH 1700</u> Calculus 2 (B) <sup>2</sup>	3
6 credit hours from the Faculty of Arts, which should include the required 3 credit hour "W" course <sup>3</sup>	6
3 credit hours of electives <sup>4</sup>	3
<b>Hours</b>	<b>30</b>
<b>Year 2</b>	
One of: <sup>4,5</sup>	3
<u>PHYS 2260</u> Optics	
Physics elective <sup>4</sup>	
<u>PHYS 2386</u> Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2496</u> Mathematical Physics 1	3
<u>PHYS 2650</u> Classical Mechanics 1	3
<u>MATH 1240</u> Elementary Discrete Mathematics <sup>2</sup>	3
<u>MATH 2720</u> Multivariable Calculus	3
<u>COMP 2080</u> Analysis of Algorithms	3
<u>COMP 2140</u> Data Structures and Algorithms	3
<u>COMP 2160</u> Programming Practices	3
<u>COMP 2280</u> Introduction to Computer Systems	3
<b>Hours</b>	<b>30</b>
<b>SUMMER</b>	
<b>Co-op Requirements (if selected):</b>	
<u>SCI 3980</u> Co-operative Education Work Term 1 <sup>5,6</sup>	0
<b>Hours</b>	<b>0</b>
<b>Year 3</b>	
<u>PHYS 2600</u> Electromagnetic Field Theory	3
One of: <sup>4,5</sup>	3



<u>PHYS 2610</u> Circuit Theory and Introductory Electronics		
Physics elective <sup>4</sup>		
<u>PHYS 3386</u>	Quantum Mechanics 2	3
<u>PHYS 3670</u>	Classical Thermodynamics	3
<u>PHYS 3496</u>	Mathematical Physics 2	3
<u>COMP 3170</u>	Analysis of Algorithms and Data Structures	3
<u>COMP 3430</u>	Operating Systems	3
6 credit hours of 3000 and/or 4000 level Computer Science courses		6
3 credit hours of electives <sup>4</sup>		3
<b>Hours</b>		<b>30</b>
<b>SUMMER</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 3990</u>	Co-operative Education Work Term 2 <sup>5</sup>	0
<b>Hours</b>		<b>0</b>
<b>Year 4</b>		
<u>PHYS 4680</u>	Statistical Mechanics	3
12 credit hours of 3000 and 4000 level Honours Physics courses, with at least 6 credit hours at the 4000 level		12
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		12
3 credit hours of electives <sup>4</sup>		3
<b>Hours</b>		<b>30</b>
<b>SUMMER</b>		
<b>Co-op Requirements (if selected):</b>		
<u>SCI 4980</u>	Co-operative Education Work Term 3 <sup>5</sup>	0
<u>SCI 4990</u>	Co-operative Education Work Term 4 (if a 4th work term is selected) <sup>5,6</sup>	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> PHYS 1050 and PHYS 1070 are recommended.

<sup>2</sup> , 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.

<sup>3</sup> 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.

<sup>4</sup> PHYS 1018 may not count towards the 120 credit hours required for this degree.

<sup>4,5</sup> Students are required to take at least one of PHYS 2260 or PHYS 2610.

<sup>56</sup> When chosen, the Co-operative Option work terms (SCI 3980, SCI 3990, SCI 4980, and SCI 4990 [if selected]) 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.)

## Degree Requirements

### Joint Honours (Including Co-operative Option if Selected)

Year 1		Hours
<u>MATH 1220</u>	Linear Algebra 1 <sup>1</sup>	3
<u>MATH 1230</u>	Differential Calculus <sup>1</sup>	3
<u>MATH 1232</u>	Integral Calculus (B) <sup>1</sup>	3
<u>MATH 1240</u>	Elementary Discrete Mathematics	3
One of: <sup>2</sup>		6
<u>PHYS 1050</u>	Physics 1: Mechanics (B)	
<u>PHYS 1020</u>	General Physics 1 (B+)	
One of:		
<u>PHYS 1070</u>	Physics 2: Waves and Modern Physics (B) <sup>2</sup>	
<u>PHYS 1030</u>	General Physics 2 (B+)	
<u>STAT 1150</u>	Introduction to Statistics and Computing <sup>6,3</sup>	3
<u>COMP 1012</u>	Computer Programming for Scientists and Engineers	3
6 credit hours from the Faculty of Arts, which should include the required "W" course <sup>4</sup>		6
<b>Hours</b>		<b>30</b>
Year 2		
<u>PHYS 2260</u>	Optics	3
or <u>PHYS 2610</u> or Circuit Theory and Introductory Electronics		
<u>PHYS 2386</u>	Introduction to Quantum Mechanics and Special Relativity	3
<u>PHYS 2600</u>	Electromagnetic Field Theory	3
<u>PHYS 2650</u>	Classical Mechanics 1 <sup>3,5</sup>	3
3 credit hours of Physics <sup>6</sup>		3
<u>MATH 2020</u>	Algebra 1	3
<u>MATH 2080</u>	Introduction to Analysis	3
<u>MATH 2090</u>	Linear Algebra 2	3
<u>MATH 2150</u>	Multivariable Calculus	3
<u>MATH 2180</u>	Real Analysis 1	3
<b>Hours</b>		<b>30</b>
Year 3		
<u>MATH 3340</u>	Complex Analysis 1	3
<u>MATH 3440</u>	Ordinary Differential Equations	3
<u>MATH 3460</u>	Partial Differential Equations	3
<u>MATH 3470</u>	Real Analysis 2	3
<u>MATH 3472</u>	Real Analysis 3	3
<u>PHYS 3670</u>	Classical Thermodynamics <sup>3,5</sup>	3
<u>PHYS 3650</u>	Classical Mechanics 2 <sup>3,5,5,7</sup>	3
<u>PHYS 3630</u>	Electro - and Magnetostatic Theory <sup>3,5</sup>	3

<u>PHYS 3386</u> Quantum Mechanics 2 <sup>3,5</sup>	3
3 credit hours from 3000 and 4000 level Physics Honours courses	3
<b>Hours</b>	<b>30</b>

### Years 3-4

#### Co-op Requirements (if selected):

<u>SCI 3980</u> Co-operative Education Work Term 1	0
<u>SCI 3990</u> Co-operative Education Work Term 2	0
<u>SCI 4980</u> Co-operative Education Work Term 3	0
<u>SCI 4990</u> Co-operative Education Work Term 4 (if a 4th work term is selected)	0
<b>Hours</b>	<b>0</b>

### Year 4

<u>MATH 3320</u> Algebra 2	3
<u>MATH 3322</u> Algebra 3	3
3 credit hours of 4000 level Math	3
<u>PHYS 3430</u> Honours Physics Laboratory	6
<u>PHYS 4680</u> Statistical Mechanics <sup>5,2</sup>	3
6 credit hours from the Department of Mathematics or the Department of Physics & Astronomy:	6

MATH 2030 Combinatorics 1

MATH 2070 Graph Theory 1

MATH 2160 Numerical Analysis 1

MATH 2170 Number Theory 1

Any 3000 or 4000 level Mathematics or Physics courses

6 credit hours of electives <sup>6</sup>	6
<b>Hours</b>	<b>30</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> 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 1210 (A) or 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.

<sup>2</sup> Students are advised to take PHYS 1050 and PHYS 1070.

<sup>3</sup> **Students may take STAT 1000 and STAT 2000 in lieu of STAT 1150.**

<sup>4</sup> **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.**

<sup>35</sup> 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.

<sup>4</sup> ~~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.~~

<sup>6</sup> **These courses may not be used for credit in this program: MATH 1010, MATH 1018, MATH 1020, FA 1020, MATH 1080, MATH 1090, and PHYS 1018 may not count towards the 120 credit hours required for this degree.**

<sup>5Z</sup> 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.

<sup>6</sup> Students may take STAT 1000 and STAT 2000 in lieu of STAT 1150.

**IMPORTANT: The four year joint honours program need not be completed in the manner prescribed in the grid above. The grid 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 indicate minimum prerequisite standing for further study.)



**University  
of Manitoba**

Office of the Registrar and  
Enrolment Services

421 University Centre  
Winnipeg, Manitoba  
Canada R3T 2N2  
T: 204-474-8820  
F: 204-474-7554

TO: Jeff Leclerc, University Secretary

FROM: Jeff Adams, University Registrar and Executive Director, Enrolment Services

DATE: December 7, 2021

**Subject: 2021-22 Academic Schedule Modifications - Convocation Dates for Spring 2022**

---

Two modifications to the 2021-22 Academic Schedule are being proposed; both modifications are to the spring 2022 convocation schedule.

*1. Revised dates for the spring 2022 Fort Garry campus convocation ceremony*

Due to some scheduling and timing challenges that have emerged the convocation dates for the Spring 2022 Fort Garry campus convocation ceremony need to be modified. The current dates listed in the 2021-22 Academic Schedule are June 2-7, 2022. The request is to move the dates so that the ceremonies would take place from June 7-10, 2022.

*2. Diploma Agriculture convocation changes*

The Faculty of Agricultural and Food Sciences normally holds a separate convocation ceremony in the spring for the Diploma in Agriculture program; in 2022 the ceremony is scheduled to be held on May 6, 2022. Rather than proceeding with this separate ceremony the Faculty would like to include the Diploma in Agriculture graduates with the graduates from the degree programs from the Faculty of Agricultural and Food Sciences to be held as part of the Fort Garry campus ceremony scheduled from June 7 - 10, 2022.

CC:

Laurie Schnarr, Vice-Provost (Students)

Shannon Coyston, Associate University Secretary (Senate)

Elfie Smith, Associate Registrar and Director of Service and Records

Stacey Wyatt, Director, Special Projects (External Relations)

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

## **Report of the Senate Committee on Curriculum and Course RE: Modifications to the Preliminary Engineering Program**

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### **Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. At its meeting on October 21, 2021, the SCCCC considered a proposal from the Faculty of Engineering, to modify the curriculum of the Preliminary Engineering Program.
3. The Senate Committee on Admissions (SCADM) also considered the proposal at its meeting on September 29, 2021.
4. Both the proposed curriculum changes and the revised admission requirements (advanced entry), which would follow from the curriculum changes, would take effect for the 2023 Fall Term/Intake.

### **Observations**

1. The Committee considered a proposal from the Faculty of Engineering to modify the Preliminary Engineering Program, as set out in the attachment to the Report. Specifically, to amend:
  - the list of required courses, to reflect a proposed change to the course title for CHEM 1122;
  - the List of Written English Courses for Engineering Students by removing one course with the NATV subject code (NATV 2020) and replace it with the proposed equivalent course with the new INDG subject code (INDG 2020).

### **Recommendation**

The Senate Committee on Curriculum and Course Changes recommends:

**THAT Senate approve modifications to the curriculum of the Preliminary Engineering Program, Faculty of Engineering, effective September 1, 2022.**

Respectfully submitted,

Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

**Report of the Senate Committee on Admissions concerning a proposal from the Price Faculty of Engineering to modify the admission requirements for the Bachelor of Science in Engineering degree program (2021.09.29)**

**Preamble:**

1. The terms of reference for this committee can be found at: [http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/490.htm](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/490.htm).
2. The Price Faculty of Engineering is proposing two changes to the Preliminary Engineering Program. The first change is to update one of the courses on the list of written English courses for engineering students to include the INDG subject code in place of the NATV subject code. The second change is to update Preliminary Engineering Program list with the new name for the CHEM 1122 course.
3. The proposal was approved by the Price Faculty of Engineering Faculty Council September 7<sup>th</sup>, 2021, and the proposal was endorsed by SCADM on September 29<sup>th</sup>, 2021.

**Observations:**

1. These changes are a direct result of the changes that were initiated by the Department of Chemistry and the Department of Native Studies.
2. There will be no disruptions to students applying for admission for the fall 2022 intake.

**Recommendation:**

The Senate Committee on Admissions recommends that the proposal to modify the admission requirements for the Bachelor of Science in Engineering degree program be approved for the Fall 2023 intake.

Respectfully submitted

Laurie Schnarr, Chair, Senate Committee on Admissions



CourseLeaf Reference:

<https://catalog.umanitoba.ca/undergraduate-studies/engineering/preliminary-engineering-program/>

## Proposed Calendar Changes

### Preliminary Engineering Program

**Campus Address/General Office:** E1-262 EITC

**Telephone:** (204) 474 9807

**Email Address:** [eng\\_info@umanitoba.ca](mailto:eng_info@umanitoba.ca)

**Website:** [umanitoba.ca/engineering](http://umanitoba.ca/engineering)

The Preliminary Engineering Program is common to all programs in engineering. Students must complete a minimum of eight courses (excluding CHEM 1122) to be eligible to apply to one of the five degree granting engineering programs. A student must complete the following list of 13 courses as part of their engineering program in order to graduate with a BSc degree in engineering.

Course No.		Credit Hours
CHEM 1100	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics (Note 1)	3
CHEM 1122	Introduction to Chemical <b>Chemistry</b> Techniques for Engineering 1 <sup>1</sup>	1.5
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 <sup>2</sup>	3
MATH 1510	Applied Calculus 1 or equivalent <sup>3</sup>	3
MATH 1710	Applied Calculus 2 or equivalent <sup>3</sup>	3
PHIL 1290	Critical Thinking <sup>4</sup>	3
PHYS 1050	Physics 1: Mechanics	3
	Written English Course <sup>5, 6</sup>	3

1 The former CHEM 1300 may be used in lieu of the combination of CHEM 1100 and CHEM 1122.

2 MATH 1300 is not an acceptable equivalent to MATH 1210

3 Students intending to obtain a degree in Engineering are strongly advised to complete MATH 1510 and MATH 1710. However, MATH 1500 or MATH 1230 may be taken in lieu of MATH 1510; MATH 1700 or MATH 1232 may be taken in lieu of MATH 1710. MATH 1690 fulfills the requirement of both MATH 1510 and MATH 1710.

4 PHIL 1290 Critical Thinking is the recommended complementary studies elective. Students may; however, select any course from the Faculties of Arts or Management (Asper School of Business) at the 1000 level or above, except for ARTS 1110 Introduction to University.

5 Course selected from the list of approved Written English Courses for Engineering students.

6 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.

7 Equivalent courses offered through Université de Saint-Boniface may be used to satisfy program requirements.

## 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
<b>INDG 2020</b>	<b>The Métis in Canada</b>	<b>3</b>
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
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.		

## Report of the Executive Committee of the Faculty of Graduate Studies on Course and Curriculum Changes

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### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. In October 2007, the Faculty of Graduate Studies approved a process of *Streamlining Course Introductions, Modifications, & Deletions* which allows the Executive Committee to approve these changes in lieu of Faculty Council when the courses are not associated with a new program proposal.
3. The Faculty of Graduate Studies Executive Committee met on the above date to consider a proposal from the Dept. of Anthropology.

### Observations

1. The **Dept. of Anthropology** proposes (2) course introductions: ANTH 7080 and ANTH 7470. Both courses have been offered previously under “advanced topics” course numbers. Given the success of these innovative courses, the department now wishes to integrate them into their regular offerings under their own course numbers.

The proposals stem from the department’s continued response to its past Graduate Program Review, their strategic priorities development process, successes at faculty member renewal, desire to train graduate students in established, new, and emerging developments in the discipline.

#### Course Introductions

##### **ANTH 7080 Museums, Memory, and Witnessing +3**

Discussing key issues in museology such as collections and collecting, conservation, representation, repatriation, and restitution, this course will explore the museum as witness. Particularly examining how museums are entangled with violence, we will attend to memory as our approach for delving into both museums’ histories and their imagined futures. The course will bring scholarship, contemporary art, exhibitions, activism, and policy into creative and critical conversation on the state and idea of museums today. Not open to students who have completed ANTH 4080 or equivalent. Permission of Instructor.

##### **ANTH 7470 Scientific Methods and Applications in Archaeology and Biological Anthropology +3**

In this course, a range of scientific methods that can be applied to answer questions in archaeology and biological anthropology will be considered. These include microscopy, 3-D and virtual technologies, ancient DNA, and elemental analyses. Students will learn how many of the core techniques are transferable across fields and will learn the strengths and limitations of the methods. Not open to students who have completed ANTH 4470 or equivalent. Permission of Instructor.

#### **NET CREDIT HOUR CHANGE +6**

**Recommendations**

**The Executive Committee recommends THAT: the course change(s) from the unit listed below be approved by Senate:**

**Dept. of Anthropology**

Respectfully submitted,

Dr. Kelley Main, Chair  
Faculty of Graduate Studies Executive Committee

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

## Report of the Executive Committee of the Faculty of Graduate Studies on Course and Curriculum Changes

---

### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. In October 2007, the Faculty of Graduate Studies approved a process of *Streamlining Course Introductions, Modifications, & Deletions* which allows the Executive Committee to approve these changes in lieu of Faculty Council when the courses are not associated with a new program proposal.
3. The Faculty of Graduate Studies Executive Committee met on the above date to consider a proposal from the Dept. of Immunology.

### Observations

1. The **Dept. of Immunology** proposes (1) course modification, IMMU 7100, to change the grading scheme from pass/fail to letter graded. The department's intention was to offer this course as letter graded and originally proposed it as pass/fail in error.

#### Course Modification

#### **IMMU 7100 Advanced Topics in Immunology**

**3**

Lectures and assigned reading providing an advanced level understanding of the molecular and cellular mechanisms governing the immune response. The course will build on basic knowledge learned in IMMU 7070 and emphasize recent advances and recently-developing concepts in the field of Immunology. Prerequisites: IMMU 7070 or by consent of instructors.

#### **NET CREDIT HOUR CHANGE**

**0**

### Recommendations

**The Executive Committee recommends THAT: the course change(s) from the unit listed below be approved by Senate:**

#### **Dept. of Immunology**

Respectfully submitted,

Dr. Kelley Main, Chair  
Faculty of Graduate Studies Executive Committee

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

/ak

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Anthropology.

### **Observations**

1. The **Dept. of Anthropology** proposes Ph.D. supplementary regulation changes related to the language requirement for their Ph.D. program to align this requirement with individual students' programs of study. The proposed revision to the supplementary regulations requires students and their advisors to determine appropriate language training in consultation with the Chair of the unit's Graduate Programs Committee; this training must be completed before students begin their research activities. Those who determine that additional language training is not required must provide a justification of this decision.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

#### **Dept. of Anthropology**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



## MEMO

**DATE:** 5 August 2021

**TO:** Faculty of Graduate Studies, Programs and Guidelines Meeting

**FROM:** Kent D. Fowler, Chair, Graduate Programs

**SUBJECT:** Changes to Ph.D. Program Requirements, 5.4.1 Language Requirement

---

The Department of Anthropology is proposing a change to section 5.4.1 (Language Requirement) of its Supplemental Regulations for the Ph.D. Program. The change to the Language Requirement was passed unanimously by the Department of Anthropology Council April 8, 2021.

Based upon our research into the history of the language requirement in the department, it appears the ultimate original intent of the language requirement was to ensure that native English speakers had acquired competence in a language other than English. This was skewed toward Sociocultural Anthropology students with the aim of having students develop language competency for doctoral field research in regions where English was not the primary language or *lingua franca*. Yet, despite this aim, the language requirement curiously only needed to be met prior to the defense of the dissertation.

In 2017, we changed the wording of the requirement to require that students demonstrate oral or reading proficiency in a second language prior to the defense of the dissertation. This was a partial and unsatisfactory fix that did not address any underlying issues of when language training occurred, including a new one: both prior to and since the last change to the language requirement the department has increasingly admitted graduate students with competency in two or more languages, and, for international students, with competency in English demanded by the entrance requirements to our MA and PhD programs.

For most PhD students, regardless of sub-discipline, the question is *not* whether they are competent in a language other than English or have oral or reading proficiency in a second language, but whether they have competency in a language necessary for them to successfully



undertake and report on their PhD research, regardless of existing language competencies. If not, the primary mandate of our discipline – to examine all aspects of the human condition in all times and all places – requires that students should take steps to acquire such competency prior to undertaking research. As such, this shifts the nature of the requirement and when it must be met.

The rationale for this proposed change in our language requirement is based upon a disconnect between the extant linguistic competence of Ph.D. students and other requirements of the Ph.D. program.

The requirement currently demands Ph.D. students to demonstrate language competency but does not tie that competency to their program of study. Instead, the requirement should be a *determination as to whether competency and proficiency in a language other than our language of instruction (English) is necessary for the student to successfully complete their Ph.D. program requirements*, and the decision for or against language training must be justified. As such, it is not enough to state that student does not need training in another language. It must be justified why no such training would be required. For instance, it must be justified why a biological anthropologist working in Peru or an archaeologist working in China need not be competent in at least reading Spanish or Mandarin, respectively. Achieving such linguistic competency normally goes without saying for Sociocultural anthropologists.

We therefore submit the following attached change to our language requirement. This revision places different responsibilities on the student, advisor, and Graduate Programs Committee:

- 1) The student and the advisor must determine:
  - a) whether any *further* language training is relevant or of benefit to a PhD student's program of research, and
  - b) which language(s), if any, is/are relevant.
- 2) The student must
  - a) complete any appropriate and agreed-upon language training prior to the conduct of research activities, and
  - b) provide evidence that language training was completed, or a program of study was initiated. The latter acknowledges that formal education is not possible for many languages and dialects and linguistic competency must come as a result of immersion in a culture and its language(s).
- 3) The Graduate Programs Committee responsibilities include
  - a) documenting the decision made by the student and advisor concerning language training;
  - b) assist students in finding an appropriate training program; and
  - c) report the completion of language training to the Faculty of Graduate Studies in compliance with our Supplemental Regulations.

## Evaluation

One important consideration raised in our departmental discussions is how to evaluate whether the student has achieved competency in a language or languages deemed necessary for a student's research program.

Apart from the GPC receiving evidence that language training has occurred prior to the commencement of research activities, we already have other existing mechanisms and checks and balances in place to judge linguistic competency and proficiency:

1. The **candidacy examination**, which involves a review of literature relevant to the student's research interests. Both the bibliographies developed by the student in preparation for the candidacy papers, and the candidacy papers themselves, are vetted by the student's advisor and committee, who themselves would be sufficiently versed in the non-English literature on the topics to an extent that they can evaluate and judge the student's competency in those readings.
2. The **conduct of field or other research** that require demonstration of the language competency.
3. The **writing of the dissertation**, which is evaluated both the student's advisory committee and an external reviewer, who can evaluate and judge the student's competency in the English and non-English literature relevant to the dissertation topic.

Please find on the following page the existing wording of Section 5.4.1 and the new, proposed wording for the requirement.

I trust this document will provide sufficient rationale for the thoughtful and progressive discussions our department has had on the state and future of our language requirement, because it should reflect the state and future direction of our discipline.

Sincerely submitted,



Chair, Graduate Programs  
Department of Anthropology

**5.4 Program Requirements**

All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:

- Where admission to the Ph.D. is directly from a Master’s degree, a minimum of 12 credit hours at the 7000- level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.<sup>1</sup>
- Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.<sup>1</sup>

<sup>1</sup> Unless professional accreditation requirements and/or the department/unit's supplementary regulations indicate otherwise.

Students must complete:

- 9 credit hours of coursework at the 7000 level, including at least 6 credit hours of Anthropology courses;
- a mandatory pass/fail ANTH 7000 Professional Development Anthropology course (if not already taken at the M.A. level); and
- a thesis.

Elective coursework is selected in consultation with the advisor, and must be approved by the Department Head.

**5.4.1 Language Requirements**

Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.

Ph.D. students are required to pursue training in a language other than English if it is deemed of necessity or benefit to the student’s program of study. Determination of language training is made during the first year of the student’s program. Language training must be completed prior to the conduct of research activities (post-thesis proposal research activities).

The Ph.D. student and the student’s advisor make the determination regarding language training in consultation with the Chair of the Graduate Programs Committee. This determination should be made as soon as possible in the program to allow language training to begin in the first year of study where advisable. Language study can include consideration of training in a language to conduct field research or language(s) in literatures relevant to the topic and geographical areas of research. The decision on the need for language training must be justified in writing to the Graduate Programs Committee (Language Training Justification Report) signed by both the advisor and the student during the student’s first year of study and recorded on the student’s Program of Research form and the first Progress Report.

For students who do not require additional or further language training for their research program, a Language Training Justification Report signed by both the advisor and the student justifying why no further training is required must be submitted to the Graduate Programs Committee during the student’s first year of study and recorded on the student’s Program of Research form and the first Progress Report. Based upon the justification report and other relevant documentation (if necessary), the student will be considered to have satisfied the language requirement and this will be

reported by the Graduate Programs Committee to the Faculty of Graduate Studies.

For students who must pursue further language competency training, progress in the training program agreed upon by the student and their advisor in consultation with the advisory committee should be documented in subsequent Progress Reports. The reading and/or oral language training should be deemed satisfactory prior to the commencement of research activities, with the understanding that oral language training may continue during the research period as suits the circumstances around the learning of some languages and/or dialects. A Language Training Final Report and documentation (e.g., transcript, certificate, tutor statement) in support of the student meeting the goals of their language training program must be presented to the Graduate Programs Committee prior to the conduct of research activities. Upon receipt of the Final Report and other relevant documentation, the language requirement will be deemed satisfied and reported to the Faculty of Graduate Studies.

~~Ph.D. students are required to demonstrate oral or reading proficiency in a second language. The language requirement must be met prior to the defence of the dissertation. Students may satisfy the language requirement in the following ways:~~

- ~~• demonstrating a reading knowledge of a second language during their Master's program;~~
- ~~• providing proof of successful completion of undergraduate coursework in a second language;~~
- ~~• successful completion (B grade or better) of an appropriate language course offered by the University during the student's program of study;~~
- ~~• passing a translation exam administered by the appropriate language department at The University of Manitoba;~~
- ~~• passing an oral examination administered by the appropriate language department at The University of Manitoba; or~~
- ~~• demonstrating a passing score in relevant modules of a standardized language competency test (e.g., TOEFL, canTEST, DAAD, TELC).~~

~~The process of meeting the language requirement is completed when a student's supervisor apprises the Graduate Program Chair that this requirement has been fulfilled.~~

**5.4.2 Advance Credit**

Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the

## Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes

### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Asper School of Business.

### Observations

1. The **Asper School of Business** proposes (4) course deletions: FIN 7100, FIN 7110, FIN 7520, FIN 7530; (5) course introductions: FIN 7700, FIN 7710, FIN 7712, FIN 7714, FIN 7716; and M.Sc. and Ph.D. supplementary regulation changes.

With respect to the deletions (FIN 7110, 7520 and 7530) and their respective (re-) introductions (FIN 7710, 7712, 7714), the course titles are being changed to accurately reflect the content of the courses. The course number for Financial Economics (no change in title) is changed from FIN 7100 to 7700 to align better with the grouping of new course numbers. In addition, a new topics course (FIN 7716) is introduced so that students can get exposure to new research areas/tools in finance.

The supplementary regulation changes consist of the course title and number changes as noted in the preceding paragraph and affect both the M.Sc. and Ph.D. In addition, with respect to the M.Sc. only, the supplementary regulations reflect a proposed program change in that FIN 7700 will now be a required course *plus* students may choose between FIN 7710 and 7712 (currently students may choose any two of those three courses under their current numbers).

#### Course Deletions

<b>FIN 7100 Financial Economics</b>	<b>-3</b>
<b>FIN 7110 Asset Pricing</b>	<b>-3</b>
<b>FIN 7520 Finance 2: Corporate Finance (Ph.D.)</b>	<b>-3</b>
<b>FIN 7530 Advanced Topics in Finance</b>	<b>-3</b>

#### Course Introductions

<b>FIN 7700 Financial Economics</b>	<b>+3</b>
Course provides students with a broad theoretical understanding of financial economics required for advanced study of theoretical finance. It covers a variety of topics and discusses the application in different areas of finance. Good knowledge of microeconomics, probability and statistics, and calculus is required. Prerequisite: admission to the M.Sc. or Ph.D. program in Management (Finance), or approval by instructor. Cannot be held with the former FIN 7100.	
<b>FIN 7710 Empirical Asset Pricing</b>	<b>+3</b>

Critical evaluation of latest empirical research in finance with focus on equity and bond markets. Tests of intertemporal, multifactor, conditional, and unconditional asset pricing models. Special emphasis on developing econometric skills for the analysis of financial data. Prerequisite: admission to the M.Sc. or Ph.D. program in Management (Finance) and FIN 7700, or approval by instructor. Cannot be held with the former FIN 7110.

**FIN 7712 Seminar in Corporate Finance**

**+3**

This is an advanced course in corporate finance. It provides a theoretical and empirical overview of major topics in corporate finance. The course will survey classic theoretical papers, empirical papers, as well as papers that represent some of the most recent developments in the field. The objective is to prepare students to critically evaluate and conduct research in corporate finance. Prerequisite: admission to the M.Sc. or Ph.D. program in Management (Finance) and FIN 7700, or approval by instructor. Cannot be held with the former FIN 7520.

**FIN 7714 Advanced Financial Theory**

**+3**

Seminar emphasizing the mathematical tools necessary for financial decision making including no-arbitrage-based asset pricing, optimal consumption and portfolio choice, general equilibrium/asset pricing theory, and dynamic corporate finance theory. Applications in derivative markets, investment theory, and corporate finance. Prerequisite: admission to the M.Sc. or Ph.D. program in Management (Finance) and FIN 7700, or approval by instructor. Cannot be held with the former FIN 7530.

**FIN 7716 Selected Topics in Finance Research**

**+3**

An examination of timely issues in finance research. Prerequisite: admission to the M.Sc. or Ph.D. program in Management (Finance) and FIN 7700, or approval by instructor. Students can earn multiple credits for this course only when the topic subtitle is different.

**NET CREDIT HOUR CHANGE**

**+3**

**Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

**Asper School of Business**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
	<ol style="list-style-type: none"> <li>2) An interest in research, as evidenced by a statement of purpose, as described above. Other evidence of research capability may be considered by the GRPC;</li> <li>3) Proficiency in written and spoken English of at least the level required by the Faculty of Graduate Studies;</li> <li>4) A minimum GMAT of 600 or comparable GRE score (as defined above in 1.1.10). The score must be no older than five years;</li> <li>5) Satisfactory recommendations from three referees, at least two of whom must be academics. For the purposes of recommendation letters, an academic is defined as someone who has taught or supervised research of the applicant in a post-secondary educational setting.</li> </ol>
<p><b>4.3.2 Pre-Master's Programs</b></p> <p>In specific cases where the academic background of the student is judged to be insufficient for the given program in a department/unit, the department/unit may recommend that the student be admitted to a Pre-Master's program of study (Section 3).</p> <p>The Pre-Master's program of study is intended to bring a student's background up to the equivalent of the required 4-year degree in the major department/unit, and to provide the student with any necessary prerequisites for courses to be taken in the Master's program.</p>	
<p><b>4.4 Program Requirements</b></p> <p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	<p>Additional courses (other than the required 18 credit hours) may be required subject to the discretion of the Curriculum Advisory Committee if it is deemed that the student's undergraduate preparation is not sufficient for their area of specialization. The Curriculum Advisory Committee may require the student to take additional courses to make up for any deficiency. The student must achieve a grade of C+ or better on each of these courses. Deficient courses must be taken via Occasional Student status.</p>
<p><b>4.4.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p>Regardless of program streams, students will be required to complete a minimum of 18 credit hours plus a thesis or practicum. All courses must be at the 7000 level or above.</p> <p>The course requirements for each of the streams within the Master of Science in Management are as follows:</p> <p><b><u>Actuarial Mathematics:</u></b></p> <p>Two (2) of the following four (3) credit hour courses are required:</p> <ul style="list-style-type: none"> <li>• ACT 7540 Advanced Topics in Actuarial Mathematics</li> <li>• ACT 7300 Seminars in actuarial Sciences</li> </ul>

- ACT 7400 Longevity Risk Modeling and Management
- ACT 7600 Applied Statistical Methods in Actuarial Science

Plus an additional twelve (12) credit hours from the following:

- ACT 7050 Readings in Quantitative Methods (varied topics)
- ACT 7540 Advanced Topics in Actuarial Mathematics
- ACT 7300 Seminars in Actuarial Science
- ACT 7400 Longevity Risk Modeling and Management
- ACT 7600 Applied Statistical Methods in Actuarial Science
- STAT 7310 Research Tools for Statistics
- ABIZ 7410 Risk Management
- FIN 7020 Corporate Finance
- FIN 7100 Financial Economics
- Or other 7000 level courses relevant to the Actuarial Mathematics specialization (e.g., Finance, Investments.), as approved by the Curriculum Advisory Committee.

**Business Administration:**

One (1) of the following three (3) credit hour courses:

- GMGT 7440 Organizational Theory
- GMGT 7410 Organizational Behaviour

One (1) of the following three (3) credit hour courses:

- GMGT 7540 Doctoral Seminar in Research Methods
- GMGT 7080 Research Methods
- Or, an equivalent graduate level course in quantitative methods from another cognate discipline including Nursing, Social Work, Psychology, Sociology, and Economics, as approved by the Curriculum Advisory Committee.

Twelve (12) additional credit hours from the following:

- A statistics or econometrics course (3 ch)
- A second research methods course (quantitative or qualitative) (3 ch)
- PHDM 7110 Doctoral Seminar in Management or a related course of advanced theory in philosophy, sociology, psychology, or economics, preferably with a philosophy of science content (3 ch); and,
- Six (6) credit hours of coursework that is relevant to the student's area of specialization from inside or outside of the Asper School of Business. Selection of these courses will be



subject to approval by the student's advisory committee.

**Finance:**

Two (2) of the following three (3) credit hour courses are required:

- ~~FIN 4N 7700400~~ Financial Economics; and one of
- FIN 7710440 Empirical Asset Pricing Asset Pricing; or
- FIN ~~7520~~ 7712 Seminar in Corporate Finance, Finance 2: Corporate Finance (Ph.D)

Twelve (12) credit hours from the following:

- One (1) three (3) credit hour course in research methods in Econometrics, which may include: ECON 7010, ECON 7020, and ECON 7032;
- At least one (1) 7000 level three (3) credit hour course in Microeconomics or Macroeconomics, which may include ECON 7722, ECON 7732, ECON 7650, and ECON 7660;
- Two (2) additional three (3) credit hour 7000 level electives chosen in Finance, Econometrics, Microeconomics or Macroeconomics.
- Note: specific course requirements may be adjusted depending on the student's background, and with the approval of the student's Curriculum Advisory Committee. The minimum number of credit hours will not be reduced.

**Marketing:**

Six (6) credit hours from the following :

- MKT 7100 Selected Topics in Marketing
- MKT 7110 Doctoral Seminar in Marketing
- MKT 7120 Doctoral Seminar in Buyer Behaviour
- MKT 7080 Research Design and Methods

Six (6) credit hours of research methods coursework (quantitative or qualitative) at the 7000-level or above. These graduate level courses in research methods are available at the Asper School of Business and in other cognate disciplines including Psychology, Anthropology, and Sociology. Students should choose one (1), three (3) credit hour course focusing on research methods and techniques, and one (1) three (3) credit hour course focusing on statistical analyses.

Six (6) credit hours of coursework relevant to the student's area of specialization from inside or outside of the Asper School of Business. Selection of these courses will be subject to approval by the student's advisory committee.

**Supply Chain Management:**

	<p>Nine (9) credit hours as follows:</p> <ul style="list-style-type: none"> <li>• <a href="#">OPM 7300</a> Topics in Advanced Production and Operations (Seminar in Supply Chain Management)</li> <li>• <a href="#">OPM 7120</a> Operations and Supply Chain Management (recommended) - or other graduate level course in Supply Chain Management</li> <li>• <a href="#">MKT 7080</a> Topics in Marketing: Research Design and Methods (recommended) - or equivalent graduate level course</li> <li>• Optional courses (9 credit hours) - at least three courses relevant to the student's area of specialization at the 7000 level or higher, from inside or outside the Asper School of Business, subject to the approval of the Curriculum Advisory Committee. Graduate level courses are recommended."</li> </ul>
<p><b>4.4.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless a department/unit's supplementary regulations indicate otherwise. A comprehensive examination is required for some course-based programs.</p>	<p>Asper School of Business does not offer the Comprehensive Examination Route for the M.Sc.</p>
<p><b>4.4.3 Accredited Professional Route</b></p> <p>The credit hours and course requirements shall reflect the requirements of the department/unit's external accrediting body. Students should check department/unit supplementary regulations regarding this requirement.</p>	
<p><b>4.4.4 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Master's degree. Students should check department/unit supplementary regulations regarding this requirement.</p>	<p>Asper School of Business does not have a language reading requirement.</p>
<p><b>4.4.5 Advanced Credit</b></p> <p>Advance credit for courses completed prior to admission to a Master's program will be considered on a case-by-case basis. The student's department/unit must make a request to the Faculty of Graduate Studies by completing the "Recommendation for Advance Credit-Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 4.7.2 Lapse of Credit of Courses).</li> </ul>	

	<p>Committee. The primary responsibilities of the Thesis Advisory Committee are to guide the student in the development of a thesis proposal, thesis research, and writing, and preparation for the Final Oral Examination.</p> <p>The Thesis Advisory Committee membership shall follow the Faculty of Graduate Studies requirements. The Thesis Advisor acts as Chair of the Thesis Advisory Committee. Where a Committee has Co-Advisors, at least four members of the Thesis Advisory Committee are needed since each Co-Advisor is considered to be a “one-half” member and will share a single vote between them.</p> <p>Students may wish to consider change their Thesis Advisors. In such a case, the student should discuss the decision with his/her Thesis Advisor, the proposed (new) Thesis Advisor, and the Graduate Program Manager. <u>A</u> student who intends to change their Thesis Advisor must inform the original; Thesis Advisor before such a change can proceed. The newly appointed Thesis Advisor must also inform the Faculty of Graduate Studies that such a change has occurred.</p>
<p><b>5.3 Program of Study</b></p> <p>As soon as possible, but no later than 24 months after a student has commenced their program, the student’s program of study should be registered with the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>) and should include:</p> <ul style="list-style-type: none"> <li>• information about the minimum or expected time for completion of the degree;</li> <li>• coursework to be taken along with course classification (“S”, “X”, “A” or “O”);</li> <li>• any foreign language requirement;</li> <li>• the research area in which the thesis will be written.</li> </ul> <p>The approval of the student’s advisor/co-advisor and the Head of the department/unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student’s advisor/co-advisor, the advisory committee, and the Head of the department/unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.</p>	<p>The program of study and any subsequent changes to the program of the student must be approved by the student’s Curriculum Advisory Committee and, where required, by the Dean of the Faculty of Graduate Studies.</p>
<p><b>5.4 Program Requirements</b></p> <p>All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:</p> <ul style="list-style-type: none"> <li>• Where admission to the Ph.D. is directly from a Master’s degree, a minimum of 12 credit hours at the 7000- level or higher plus a thesis is required. Any</li> </ul>	<p><u>Course Requirements</u></p> <p>All PhD students must complete both core and other course requirements. The core course requirements must be completed regardless of previous professional and/or academic background. All Ph.D. students must complete PHDM 7140 Management Research Project 1 and PHDM 7150 Management Research Project 2.</p>

further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.\*

- Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.\*

\*Unless professional accreditation requirements and/or the department/university's supplementary regulations indicate otherwise.

both of which are zero credit-hour, pass/fail courses. The Curriculum Advisory Committee must ensure that at least one of these courses (i.e. PHDM 7140 or PHDM 7150) is completed prior to the candidacy examination.

Core Course Requirements (at least 12 credit hours):

The four required core courses are dependent on the student's departmental concentration area and are listed as follows:

**Business Administration Core**

- One (1) three (3) credit hour course from:
  - GMGT 7410 Organizational Behaviour;
  - GMGT 7440 Organizational Theory; or,
  - GMGT 7530 Strategy.
- Three (3) additional three (3) credit hour courses from:
  - GMGT 7440 Organizational Theory;
  - GMGT 7410 Organizational Behavior;
  - GMGT 7530 Strategy; or
  - Topics courses in the area of organizational behavior, organization theory, strategy, entrepreneurship, international business, industrial relations and human resource management.

**Finance Core**

- FIN ~~7700400~~ Financial Economics (3 ch);
- FIN ~~7710410~~ ~~Asset Pricing~~ ~~Empirical Asset Pricing~~ (3 ch);
- FIN ~~7712~~ ~~Seminar in Corporate Finance (3 ch)~~ ~~520~~ ; and ~~Finance II: Corporate Finance (3 ch)~~; and,
- FIN ~~7714~~ ~~Advanced Financial Theory~~ ~~530~~ ~~Advanced Topics in Finance~~ (3 ch).

**Marketing Core**

- MKT 7110 Doctoral Seminar in Marketing (3 ch);
- MKT 7120 Doctoral Seminar in Buyer Behaviour (3 ch);
- MKT 7080 Research Design and Methods (3 ch); and,
- MKT 7100 Selected Topics in Marketing (3 ch).

Other course requirements:

Additional course-work may be required and could include:

- 1 Philosophy of Science in Management (Note: Finance students are exempt from this requirement) (3 credit hours);

- 3 Methods or Statistics courses (9 credit hours; or up to 6 courses [18 credit hours] for Finance);
- 2 minor/cognate courses (at least one of which is outside the Asper School of Business; 6 credit hours or up to 3 courses [9 credit hours] for Finance students);
- Since students completing an Asper School of Business Ph.D. will be conducting research and teaching in topics related to management, they will be required to have a basic breadth of knowledge in management. Students with a previous business degree will not be required to complete this requirement; and
- Students without a business degree will be required to audit at least one (1) and up to three (3) courses, preferably at the 7000 level, outside their core area in business as deemed necessary by the student's Curriculum Advisory Committee.

The student's Curriculum Advisor will develop the proposed course program in consultation with the student, and will ensure that the Advisory Committee is satisfied with the program. The Curriculum Advisor will then send the proposed program, including the stated breadth requirements, to the Graduate Program Manager. A list of a student's required course-work must be completed in the first term of registration within the Ph.D. program.

#### Evaluation Procedures

Students will be evaluated in each course on the basis of criteria stated in course outlines (i.e.: examinations, term papers, term projects, etc.). Students must maintain a minimum GPA of 3.0, with no grades on core courses lower than B (3.0)

Student progress will be reported at least annually to the Faculty of Graduate Studies and the GRPC on the "Progress Report Form," which consists of a Faculty of Graduate Studies progress form and an Asper School of Business progress form. The student's Curriculum Advisor and Advisory Committee is responsible for completing and submitting this report in consultation with the student. Students who fail to meet the minimum specified grades or make sufficient progress toward the completion of the degree may be required to withdraw on the recommendation of the GRPC to the Dean of the Faculty of Graduate Studies. In addition, the GRPC will assess the ratings of the student against the ratings of all other students in the program (of similar discipline and program stage), and reserves the right to adjust the rating of the student prior to the report being submitted to the Faculty of Graduate Studies.

Apprenticeships

In their future careers, doctoral students in Management will need to develop skills in conducting research, communicating their research findings, and teaching to various target communities. Also doctoral students with demonstrated research skills as evidenced by research projects completed and papers published before graduating will find themselves more marketable. To this end, the following are in addition to the formal program:

- 1) Students may be required to attend credit and non-credit courses, seminars and training sessions in teaching and research communication, as determined by the student's Curriculum Advisory Committee, as part of their program;
- 2) Students will be required to participate in classroom teaching, including observing teaching, and/or assisting teaching, for the equivalent of three (3) credit hours, and assuming full teaching responsibilities for the equivalent of approximately three (3) credit hours. Students unable to demonstrate satisfactory teaching performance will be encouraged to pursue remedial instructional training (i.e.: Centre for the Advancement of Teaching and Learning). Exceptions may be made at the discretion of the Curriculum Advisory Committee in consultation with the Associate Dean (Research);
- 3) Research Apprenticeship. The purpose of a research apprenticeship is to train students in the skill sets required to become a successful researcher. All students are required to complete a research apprenticeship with their Curriculum Advisor and/or faculty members in their department. The outcomes of this critical academic apprenticeship should result in the student attaining publishable papers of journal quality and conference presentations in conjunction with their advisor and/or other faculty members in their department. The measurable outcomes of the apprenticeship should be documented on the student's annual progress report;
- 4) Finally, the goal of the apprenticeship should be to develop research skills, thus it is viewed as an ongoing apprenticeship where the student will normally work 10 hours a week with their Curriculum Advisor or other faculty member(s) on research projects. This research activity is not and cannot be related to a student's funding.

Curriculum or Thesis Advisors, as applicable, are responsible for ensuring that teaching and

	research skills are developed, and that students take the prescribed courses and engage in their prescribed teaching and research apprenticeships. Advisors must take an active role in this process, taking into consideration the needs of their students, and proposing appropriate courses or activities available at the University.
<p><b>5.4.1 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.</p>	The graduate research programs in the Asper School of Business does not have a language reading requirement.
<p><b>5.4.2 Advance Credit</b></p> <p>Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the request to the Faculty of Graduate Studies by completing the "Advance Credit - Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 5.4.4 Lapse of Credit of Courses)</li> <li>• No more than 50% of the required coursework for the program can be achieved using advance credit.</li> <li>• A course may not be used for credit toward more than one degree, diploma or certificate.</li> <li>• The student must register at the University of Manitoba for at least two consecutive terms and must also complete the thesis and candidacy examination at The University of Manitoba. Regardless of the extent of advanced credit received, all students are required to pay applicable program fees.</li> </ul>	
<p><b>5.4.3 Transfer Credit</b></p> <p>Courses within a program of study may be taken elsewhere and transferred for credit at the University of Manitoba. All such courses:</p> <ul style="list-style-type: none"> <li>• must be approved for transfer to the program of study by the department/unit and the Faculty of Graduate Studies before the student may register for them;</li> <li>• are considered on an individual basis;</li> <li>• cannot be used for credit towards another degree;</li> <li>• may not exceed 50% of the minimum credit hours of coursework required of the student's graduate program at The University of Manitoba.</li> </ul> <p>Permission is granted in the form of a Letter of Permission which may be obtained by making an application to the Registrar's Office; (<a href="http://umanitoba.ca/student/records/leave_return/710.html">http://umanitoba.ca/student/records/leave_return/710.html</a>) an original transcript, and course equivalency must be provided.</p>	

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Faculty of Education.

### **Observations**

1. The **Faculty of Education** proposes Ph.D. supplementary regulation changes consisting of renaming the Ph.D. "Ad Hoc" program stream to the "Individualized" program stream. This stream is a route through the Ph.D. that is customized by the student and their advisory committee (whereas the "cohort" stream is a route that applies to a group of students that has a pre-determined set of courses).

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

### **Faculty of Education**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



To: Dr. Kelley Main, Acting Dean, Faculty of Graduate Studies  
 From: Dr. Michelle Honeyford, Acting Associate Dean, Graduate Programs & Research  
 Date: June 25, 2021  
 Re: Proposed Change to Modify the “Ad Hoc” Language in the PhD in Education Supplemental Regulations

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This proposed change has been approved by the Graduate Programs Committee and by the Faculty Council at its meeting on June 7, 2021.

**Background/Rationale:**

The PhD in Education program is currently offered in two formats: 1) through Cohorts, and 2) as an Individualized program that has come to be known as “Ad Hoc”. The “Ad Hoc” language was originally used simply as a place-holder to convey that as an alternative to a cohort option (in which the program of study is pre-designed specifically for the cohort with a set of determined courses), the PhD in Education program could also be designed between the student and committee on an “ad hoc” basis. However, the “Ad Hoc” language stuck, and is referenced in the PhD in Education Supplemental Regulations, on forms, and on program information available online. We feel it is important to change the language so that it better reflects and communicates the two PhD program possibilities to a diverse and global audience. We would like to modify the language in our PhD in Education Supplemental Regulations by removing the “Ad Hoc” language (e.g., “ad hoc route”; “ad hoc program”) and to consistently reference the PhD in Education with two program options: *Cohort* or *Individualized*.

**Proposed Change:** To remove the “Ad Hoc” language from the Supplemental Regulations in regards to the PhD in Education program and replace it with language indicating *cohort* or *individualized* program.

There are two references to “ad hoc” in the supplemental regulations. The changes to the language in those references is as follows:

Section 1.1.1 Application Process

Current Language	Proposed Change
All applications for doctoral studies in Education are made to a specific area or to the <i>ad hoc</i> route.	All applications for doctoral studies in Education are made to either a specific <i>cohort</i> or the <i>individualized</i> program.

## Section 5.4 Program Requirements

Current Language	Proposed Change
For students admitted to study in an ad hoc program rather than to a defined program area, the program area coursework is specific to the individual student and is defined by the Advisory Committee rather than by members of a defined program area;	For students admitted to study in an <i>individualized</i> program rather than to a <i>specific cohort</i> , the program area coursework is specific to the individual student and is defined by the Advisory Committee <i>in consultation with the student</i> rather than by members of a defined program area;

Graduate Studies, via the online application system. **Note:** International students must pay special attention to the appropriate requirements with respect to transcripts (see application form for details).

1.1.1 (b) Applications are subsequently reviewed by the unit offering the program which will decide whether the applicant meets the unit's criteria including, but not limited to, availability of advisors, space, and facilities.

1.1.1 (c) Notification of recommended/rejected applications is sent by the Head of the unit to the Faculty of Graduate Studies. Applications recommended for admission are checked to determine if they meet the Faculty of Graduate Studies' eligibility requirements. The Faculty of Graduate Studies then notifies applicants of their acceptance or rejection.

to The Faculty of Graduate Studies ([http://umanitoba.ca/faculties/graduate\\_studies/admissions/](http://umanitoba.ca/faculties/graduate_studies/admissions/))

Admission to the Ph.D. program is competitive. A number of factors are taken into consideration in arriving at an admission decision including:

1. the capacity of the Faculty to provide the program of study requested by the applicant;
2. the applicant's previous academic background;
3. the referees' assessments of the applicant;
4. the capacity of the Faculty to provide the applicant with an advisor and advisory committee;
5. the applicant's occupational experience;
6. the applicant's research capability; and
7. the applicant's academic and/or professional goals.

This document provides the regulations and procedures for doctoral programs in the Faculty of Education. These are supplementary to the regulations and procedures of the Faculty of Graduate Studies, which govern all graduate programs at the University of Manitoba. This document should be read in conjunction with the Faculty of Graduate Studies' complete Graduate Studies Calendar and Academic Guide:

[http://umanitoba.ca/faculties/graduate\\_studies/publications/index.html](http://umanitoba.ca/faculties/graduate_studies/publications/index.html)

#### Application Procedures

All applications for doctoral studies in Education are made to either a specific cohort or the individualized program ~~area or to the ad-hoc route~~ (<http://umanitoba.ca/education>).

Each application for admission must include:

- a. a completed application form and application fee;
- b. official transcripts from all post-secondary institutions attended other than the University of Manitoba;
- c. two completed University of Manitoba reference forms from individuals familiar with the applicant's academic and/or professional work. (Where possible, one of these recommendations must be from the supervisor of the work submitted as evidence of appropriate research capability, i.e.: the Master's thesis advisor);
- d. evidence of appropriate research capability;
- e. evidence of appropriate occupational experience in an educational setting;
- f. a statement of intent, of not more than 1000 words, outlining the applicant's research focus;
- g. a statement indicating the preference ordering of (at least two) faculty members under whose supervision the applicant would like to work (see appendices); and

**5.2.5 Conflict of Interest**

There are several circumstances that might lead to a real, perceived or potential Conflict of Interest (COI) in advisory and examining committees. A real COI could be present due to the existence of a (past or present) personal relationship that is romantic, sexual, marital, personal or familial. There is a potential for a perceived COI in cases of recent (within the last 5 years) collaboration among committee members, which may result in the perception of a lack of fairness or impartiality. These examples are not intended to be comprehensive, and are provided solely for illustration. The University of Manitoba [Conflict of Interest Policy](#) and [Conflict of Interest Procedures](#) as well as the [Conflict of Interest Between Evaluators and Students due to Close Personal Relationships](#) should also be consulted.

In addition to following the processes outlined in the above policies, COIs that exist within advisory and examining committees should be declared in writing to the Faculty of Graduate Studies to provide transparency to all relevant parties (including the student, committee members, unit leadership, and the Faculty of Graduate Studies). All reported conflicts will be reviewed by the Dean of the Faculty of Graduate Studies (or designate). If the conflict is deemed sufficiently significant and cannot be mitigated, a new committee may need to be struck.

**5.3 Program of Study**

As soon as possible, but no later than 24 months after a student has commenced their program, the student's program of study should be registered with the Faculty of Graduate Studies on the "[Program of Study and Appointment of Advisory Committee](#)" form and should include:

- information about the minimum or expected time for completion of the degree;
- coursework to be taken along with course classification ("S", "X", "A" or "O");
- any foreign language requirement;
- the research area in which the thesis will be written.

The approval of the student's advisor/co-advisor and the Head of the department/unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student's advisor/co-advisor, the advisory committee, and the Head of the department/unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.

The program of study and any subsequent changes to the program of the student must be approved by the student's advisor, the Advisory Committee, and the Doctoral Studies Committee.

As soon as the entire program of study is decided on by student and advisor, the program forms must be completed and submitted, ideally within the first term, to the Chair of the Doctoral Studies Committee for approval. These forms are available online: [http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html) > And [www.umanitoba.ca/faculties/education/directory/faculty-staff-resources.html](http://www.umanitoba.ca/faculties/education/directory/faculty-staff-resources.html) .

Please refer to the Faculty of Education web site for current Ph.D. program areas, and a listing of faculty members with their research interests.

Changes in a program of study may occur for various reasons. Where these changes are sought by mutual agreement they can be resolved through the mandatory completion of the "Ph.D. Program Add and Delete" form, which must be forwarded to Doctoral Studies Committee for approval.

**5.4 Program Requirements**

All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:

- Where admission to the Ph.D. is directly from a Master's degree, a minimum of 12 credit hours at the 7000- level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.<sup>1</sup>

Twenty-four (24) credit hours of coursework are subject to the following regulations:

- a. Twelve (12) credit hours of coursework at the 7000 level must be in the student's program area and must include the program core coursework common to all students in the program area (See the Education web site for specifics [www.umanitoba.ca/education](http://www.umanitoba.ca/education)).

For students admitted to study in an ~~ad~~ *individualized* program rather than to a

- Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.<sup>1</sup>

<sup>1</sup> Unless professional accreditation requirements and/or the department/unit's supplementary regulations indicate otherwise.

~~defined program area~~ specific cohort, the program area coursework is specific to the individual student and is defined by the Advisory Committee in consultation with the student rather than by members of a defined program area;

- b. Six (6) credit hours must be in a cognate area(s); and
- c. Six (6) credit hours must be in research methods/analysis.

NOTE: EDUA 5800 *Introduction to Educational Research* (3 credit hours) or an equivalent course is a pre-requisite or concurrent course to most Education 7000 level research courses. Applicants without this course will be required to take the course as an Occasional Student (O) and pay the appropriate course fee. This will be in addition to Ph.D. course requirements.

Where necessary, the student may be required to complete additional background coursework, as an auxiliary course or as an Occasional (O) student. If the latter, the student must pay the appropriate course fee.

A minimum of eighteen (18) credit hours of coursework must be at the 7000 level. All courses taken in the Faculty of Education must be at the 7000 level or above. Courses taken outside the Faculty of Education must be at the 3000 level or above. A minimum of twelve (12) credit hours of coursework must be taken in the Faculty of Education. When relevant to the student's area of research and study, students are encouraged to take courses outside of the Faculty of Education of the University of Manitoba.

**5.4.1 Language Requirements**

Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.

**5.4.2 Advance Credit**

Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the request to the Faculty of Graduate Studies by completing the "Advance Credit-Transfer of Courses" form.

- Application for advance credit must be made within the first year of the program (please refer to Lapse or Expiration of Credit of Courses)
- No more than 50% of the required coursework for the program can be achieved using advance credit.
- A course may not be used for credit toward more than one degree, diploma or certificate.
- The student must register at the University of Manitoba for at least two consecutive terms and must also complete the thesis and candidacy

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Educational Administration, Foundations & Psychology.

### **Observations**

1. The **Dept. of Educational Administration, Foundations & Psychology** proposes a suite of M.Ed. supplementary regulation changes intended to increase flexibility for students in the Counselling Psychology specialization. The changes include removing EDUA 5540 from the list of pre-requisites for admission to the program (reducing the number of pre-requisite credit hours to 6), allowing students to defend their thesis proposals when they have completed at least 50% of their coursework, provided that their thesis research is unrelated to their practicum, and allowing students to defend their theses while concurrently enrolled in their practicum placement. The latter two changes are contingent upon unanimous support from the advisory committee and approval from the unit head.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

#### **Dept. of Educational Administration, Foundations & Psychology**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



To: Dr. Kelley Main, Acting Dean, Faculty of Graduate Studies

From: Dr. Michelle Honeyford, Acting Associate Dean, Graduate Programs & Research

Date: June 25, 2021

Re: Modifications to Supplemental Regulations

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There are three changes being proposed to the M.Ed Supplemental Regulations in EAF&P that are relevant to the specialization in Counselling Psychology. There are two proposed changes that would provide more flexibility to Counselling Psychology students on when they may defend their thesis proposal and their thesis defense. These motions were passed by Faculty Council in its meeting on June 7, 2021.

In addition, the Faculty is resubmitting a change that was submitted to FGS in April 2021 (see #3). This proposed change is to delete a pre-requisite course in Counselling Psychology that will reduce barriers for students applying to the program. Because the change is slated for consideration at the September meeting of the FGS Programs and Guidelines Committee, we have been asked to resubmit it as a part of this proposal to avoid having multiple changes at various stages of the approval process.

**1. Change to when Counselling Psychology graduate students may defend their thesis proposal**

All graduate students in Counselling Psychology are required to complete a Supervised Practicum (over the duration of 8-10 months) in Counselling Psychology which is also connected to the six-credit course *EDUA 7520 Practicum Seminar in Counselling*. For graduate programs in counselling psychology across Canada it is standard practice that if the thesis proposal is not directly connected to the practicum experience then the thesis proposal defense can occur prior to the start of taking the EDUA 7520 Practicum Seminar in Counselling (6 credit course).

The change to Section 4.7.1.1 would allow Counselling Psychology students, with unanimous support of their thesis advisory committee and the department head, to defend their *thesis proposal* when they have completed at least 50% (i.e., a significant portion) of their coursework. The change makes clear that several conditions need to be met for this to occur: that the thesis proposal (and planned thesis) would not be directly related to the practicum; there must be unanimous support and oversight from the thesis advisory committee and the department head; and that “at least 50%” of the student’s coursework would be completed, which in the thesis route would be all coursework related to the thesis. (The remaining 9 credit

hours of their program would be the practicum course [6 credit hours] and, in most cases, a practicum-related ethics course [3 credit hours].)

Proposed Change:

- a) Add the following text in Section 4.7.1.1 to be placed right before “Students should be registered...”

“With unanimous support of the Thesis Advisory Committee and with Department Head approval, a student in Counselling Psychology may defend their thesis proposal upon completing at least 50% of the coursework (i.e., at least 9 credit hours out of 18) when the thesis research is not directly connected to the practicum.”

## **2. Change to when Counselling Psychology graduate students may defend their thesis**

In some cases, allowing Counselling Psychology students to complete and defend their *thesis* while concurrently completing the practicum course would also provide some much-needed flexibility for students in cases when the thesis is not directly connected to the practicum experience. If students are able to complete the thesis earlier in the practicum, they can be immersed in the field and gain a deeper understanding of becoming a counsellor without having to balance working on their research at the same time as their practicum and feeling stretched.

The change to Section 4.7.1.3 would allow Counselling Psychology students, with unanimous support of the thesis examining committee and with approval of the department head, to defend their *thesis* while concurrently completing the practicum (EDUA 7520 Practicum Seminar in Counselling), either in the first or second term of this 6 credit hour course.

Proposed Change:

- b) Add the following text in Section 4.7.1.3 to be placed at start of section (before “*Scheduling the Oral Examination*”)

“With unanimous support of the Thesis Examining Committee and with Department Head approval, a student in Counselling Psychology may defend the thesis while concurrently completing the final course EDUA 7520 Practicum Seminar in Counselling.”

## **3. Deletion of a pre-requisite to the Counselling Psychology program**

The Faculty of Education is proposing a change to the EAF&P Department’s Supplemental Regulations regarding the M.Ed Specialization in Counselling Psychology. The proposed change to delete a pre-requisite course for those applying to Counselling Psychology was approved by the EAF&P Department Council at its meeting on February 22 2021; by the Graduate Programs Committee at its meeting on March 1, 2021; and by Faculty Council at its meeting on March 15, 2021.

To bring the Counselling Psychology program in line with other programs across Canada, and to reduce the barriers for applicants to the graduate Counselling Psychology program, we would



like to remove EDUA 5540 (Group Counselling; formerly titled Groups in Guidance) as a prerequisite to the Masters in Education Counselling Psychology program. Other academic institutions across Canada are not offering a course in Group Counselling at the undergraduate level. As a result, many qualified students from various provinces are unable to attain a group counselling course and apply to our program. This has created a barrier to the program that contradicts a commitment to equity, diversity and inclusion in the Counselling Psychology program. A Group counselling course is not a necessary skill set for students entering a Counselling Psychology program; in fact, the change recognizes that such a course should only be offered at the graduate level as part of a counselling psychology program. The rigour of the program is not reduced by decreasing the number of pre-requisite courses (from 9 credit hours to 6); the change will bring the program into line with other programs and what is expected and possible for applicants. The EDUA 5540 Group Counselling course (formerly titled Groups in Guidance) will continue to be offered as an elective course to complement a graduate program in Counselling Psychology.

The proposed changes to the Supplemental Regulations (Section 4.2) are to:

- a) reduce the required number of credit hours of pre-requisite university coursework at the 5000 level from nine (9) to six (6) credit hours for Counselling Psychology.
- b) delete EDUA 5540 as a pre-requisite for Counselling Psychology.

All students applying for a Master's degree program must have attained a minimum GPA of 3.0 in the last two (2) full years (60 credit hours) of study. This includes those applying for direct admission and those entering from a Pre-Master's program. Students who meet the minimum requirements for admission to the Faculty of Graduate Studies are not guaranteed admission.

**Note:** This is the minimum requirement of the Faculty of Graduate Studies and departments/units may have higher standards and additional criteria.

Individuals who graduate from the Certificate in Adult and Continuing Education (CACE), University of Manitoba, must complete the following courses:

- EDUA 1560 Adult Learning and Development (3 credit hours);
- EDUA 1570 Foundations of Adult Education (3 credit hours);
- EDUA 1580 Program Planning in Adult Education (3 credit hours);
- EDUA 1590 Facilitating Adult Education (3 credit hours);
- plus an additional one hundred (100) hours of elective credit through courses, seminars, and workshops.

The Faculty of Graduate Studies recognizes a complete CACE program as fifteen (15) credit hours towards the admission requirements for the M.Ed.; that is, giving twelve (12) credit hours for the four core courses completed with a grade of 'B' or better and three (3) credit hours (non-assessable) for the one hundred (100) hours of elective study.

Individuals with a three-year undergraduate degree and the four courses listed above (EDUA 1560, EDUA 1570, EDUA 1580 and EDUA 1590) must complete an additional 12 credit hours of senior level courses (i.e.: 5000 level PBDE courses, 1000 or 2000 level B.Ed. courses, or courses at the 3000 level or above in other faculties) to have the 24 credit hours that are the minimal requirements for satisfying the "honours degree or equivalent" admission requirement.

Those with the completed CACE require an additional nine (9) credit hours of senior level courses.

**Pre-requisite Coursework:**

The following program areas require pre-requisite coursework that must be completed prior to the start of the M.Ed. program (may be taken in the Post-Baccalaureate Diploma in Education (PBDE) program of the Faculty of Education, or its equivalent).

*Counselling Psychology:*

A minimum of ~~ninesix~~ (96) credit hours of university coursework at the 5000 level consisting of (or their equivalent):

- EDUA 5480 Counseling Skills (3 credit hours);
- EDUA 5500 Theories and Issues in School Counseling (3 credit hours);
- ~~EDUA 5540 Groups in Guidance (3 credit hours).~~

*Inclusive Education:*

A minimum of eighteen (18) credit hours of

- maintain a minimum degree grade point average (DGPA) of 3.0 with no grade below C+;
- complete [GRAD 7500](#)
- complete [GRAD 7300](#)
- meet the minimum and not exceed the maximum course requirements; and
- meet the minimum and not exceed the maximum time requirements (in terms of time in program and lapse or expiration of credit of courses).

Individual department/units may have additional specific requirements for graduation and students should consult department/unit supplementary regulations for these specific requirements.

**4.7.1 Thesis/Practicum Route**

**4.7.1.1 Thesis vs. Practicum**

Students must demonstrate their mastery of the field and that they are fully conversant with the relevant literature through their thesis/practicum. The thesis or practicum will normally be written in English unless the student is studying in a program at the Université de Saint-Boniface, or departmental/unit supplementary regulations allow a different language to be used.

A practicum differs from the thesis in its emphasis on the application of theory, it is however similar in scope, span, and rigour. The practicum takes the form of an exercise in the practical application of knowledge and skill. It usually involves the careful definition of a problem, the application of appropriate knowledge and skills to the problem, and a report of the results in a manner suitable for evaluation by an examining committee. Individual department/units have specific requirements for graduation and students should consult department/unit supplementary regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the practicum.

The thesis is developed under the mentorship of the advisor/co-advisor. Individual department/units may have specific guidelines regarding the thesis proposal and its acceptance by the student's advisory committee and department/unit Head; students should consult department/unit supplementary regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the thesis research.

*The Thesis Proposal:*

Normally the preparation of the thesis starts once the student has completed, or is very close to completing his/her coursework. With unanimous support of the Thesis Advisory Committee and with Department Head approval, a student in Counselling Psychology may defend their thesis proposal upon completing at least 50% of the coursework (i.e., at least 9 credit hours out of 18) when the thesis research is not directly connected to the practicum. Students should be registered in GRAD 7000 Master's Thesis until the project is complete. In the thesis preparation process the student uses original research to demonstrate mastery of his or her area and that he/she is conversant with the relevant literature. The process of developing and defending a thesis is subject to the following regulations:

*The Collaborative Advising Model:*

Once the Thesis Advisor has been appointed, the student in consultation with the Advisor, and the Thesis Advising Committee if it has been established, will prepare a Thesis Proposal.

Normally, a Thesis Proposal consists of 3 chapters: 1) Introduction/Overview, 2) Review of Literature, 3) Research Design and Methods. The proposal is normally between 50 and 100 pages. Although the Thesis Advisor provides the overall leadership for guiding the student's research, it is expected that the other members of the Thesis Advising Committee will also be involved throughout the research process. The preferred model of the Faculty of Education is a collaborative committee model in which the members serve both an advisory and examining role.

*The Thesis Proposal Defence:*

The Thesis Advising Committee normally serves as the examining committee for the thesis proposal defence. The student must present the thesis proposal to the committee in an open forum with an invitation for faculty and students to attend. Members of the committee should have copies of the completed thesis proposal at least two weeks

If two or more examiners do not approve the thesis, then the student is deemed to have failed the distribution.

Note that in the case of an advisor and co-advisor, both together have a single vote on the examining committee.

perspectives on the student's work, the necessary changes, ethical questions, or approval. Issues should be addressed directly where possible with the affected parties. In the event that the committee is not able to resolve these differences themselves, the Department Head, and if necessary in consultation with, the Associate Dean of Graduate Programs and Research has the authority to reconstitute part or all of a committee. The Department Head will consider a change in committee membership in response to a written request from a student, committee member, or advisor shared with all involved parties.

**4.7.1.3 Oral Examination**

For department/units requiring students to pass an oral examination on the subject of the thesis/practicum and matters relating thereto, the format of the oral examination is described in the supplementary regulations of the department/unit. Students should consult these supplementary regulations for specific requirements. A student has the right to an examination of the thesis/practicum if they believe it is ready for examination. It is the department/unit's responsibility to advise the student of any risk involved should they decide to proceed against the department/unit's recommendation.

The examining process should be completed within one (1) month of distribution of the thesis/practicum to the examining committee.

Normally, all members of the examining committee should be present in-person at the examination. Under exceptional circumstances, and with the prior approval of the Dean of the Faculty of Graduate Studies, one (1) member may participate electronically. Only under very exceptional circumstances can the student or the Advisor/Co-advisor participate electronically. No recording devices will be permitted. The oral examination must be held at either The University of Manitoba Fort Garry or Bannatyne campus, Université de Saint-Boniface, or the St. Boniface Hospital Albrechtsen Research Centre normally during regular business hours. The oral examination shall be open to all members of The University of Manitoba community except in exceptional cases. The oral examination may be closed, for example, when the results of the thesis/practicum research must be kept confidential for a period of time. In such cases, the examining committee and department/unit Head shall recommend such action to the Dean of the Faculty of Graduate Studies who shall then decide whether to grant that the final examination be closed to all but the examining committee and the Dean of the Faculty of Graduate Studies (or delegate).

The oral examination will normally be held in English unless the student is studying in a program at the Université de Saint-Boniface, or departmental/unit supplementary regulations allow a different language to be used.

Following completion of the examination of the thesis/practicum, examiners will consider the oral examination and the written thesis/practicum.

The examiners will also determine the nature of and procedures for approval of any revisions that will be required prior to submission of the thesis/practicum to the Faculty of Graduate Studies. The advisor/co-advisor is normally responsible for ensuring that revisions are completed according to the instructions from the examining committee.

The judgment of the examiners shall be reported to the Faculty of Graduate Studies in the qualitative terms "approved" or "not approved" on the "Thesis/Practicum Final Report" form. Each examiner must indicate their opinion by their signature. If two (2) or more examiners do not approve the thesis/practicum, the student is deemed to have failed the examination.

With unanimous support of the Thesis Examining Committee and with Department Head approval, a student in Counselling Psychology may defend the thesis while concurrently completing the final course EDUA 7520 Practicum Seminar in Counselling.

*Scheduling the Oral Examination (Thesis Defence):* The procedures for arranging the oral defence include:

- a) The Advisor confirms with all members of the Examining Committee (at least 2 of 3) that the thesis is ready for defence;
- b) The Advisor coordinates the date, time and location of the defence with the student and members of the Examining Committee. The defence is held on the University of Manitoba campus;
- c) The student submits the title, abstract, and copy of the thesis to the department secretary who announces the event;
- d) The student must be physically present for the defence.

*The Thesis Defence:*

The central purpose of the oral thesis defence is for the student to demonstrate mastery of the field and relevant literature through their thesis research. They must demonstrate the ability to make an academic presentation and express her/himself in an academic forum. Normally, the Advisor chairs the oral defence. Normally, the student will be asked to summarize the findings, implications, strengths and shortcomings of their study in a coherent 15-20 minute presentation to the Examining Committee and any others who may be in attendance. After this presentation the Thesis Examining Committee members will ask questions on various aspects of the study and take into account the student's responses in their final assessment. Normally, the order of questioning is as follows: External committee member, Internal committee member, followed by the Advisor. The first round of questioning is approximately 20 minutes/examiner. Additional questioning may follow as necessary. Questions from the audience

## Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes

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### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Occupational Therapy.

### Observations

1. The **Dept. of Occupational Therapy** proposes MOT supplementary regulation changes related to the elimination of the requirement of a statistics course for admission to the program (section 4.2). It also includes the removal of a required 'professional portfolio' from the supplementary regulations (sections 4.3.2., 4.4, and 4.6.5.); related content will be integrated into the three professionalism courses offered in the program.

Beginning in 2023, a statistics prerequisite course will no longer be required for admission to the Master of Occupational Therapy program.

There is often a large gap in time between taking the statistics course and using it in the program. It was noted by faculty that many MOT students do not remember the content from this prerequisite course and therefore are unable to apply it when they may need it in the MOT 2-year program. Much of the content taught in the statistics course is not relevant to the information needed in the MOT program. The MOT program will incorporate the required statistical information that students need.

The department requests removal of the reference to the professional portfolio from the MOT supplementary regulations (to be effective as soon as possible). Since the inception of the MOT program, students have been required to complete a professional portfolio. Completion of the portfolio has not been part of the MOT program courses. Students develop the portfolio as a separate component of the program. The department believes that connecting portfolio development to the MOT curriculum will promote greater integration of the process. As such, the department has introduced a process to integrate portfolio completion into MOT courses. Listing the portfolio as a separate requirement in the supplemental regulations will no longer be required, as it will be part of MOT course evaluations.

MOT Learning Portfolio expectations will be:

- integrated into the 3 professionalism courses as summarized below:
  - *Professionalism and Enabling Occupation (OT 6142)*
  - *Professionalism & Leadership in Enabling Occupation 1 (OT 7542)*
  - *Professionalism & Leadership in Enabling Occupation 2 (OT 7742)*
- remove from the MOT Supplemental Regulations as a "program requirement"

Portfolio development expectations will be communicated via Course Coordinator prompts to Program

Advisors and students (listed as follows in the next table). Note: The Senior Administrative Coordinator will continue to prompt to Program Advisors regarding other Advisory related meetings and requirements.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

### **Dept. of Occupational Therapy**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

**Summary**

MOT 1		MOT2	
Fall Term (OT 6142)	Winter Term (OT 6142)	Fall Term (OT 7542)	Winter Term (OT 7742)
<p>By the end of September the MOT student will:</p> <ul style="list-style-type: none"> <li>• complete the <i>Pre-OT Section</i></li> <li>• discuss this section with their Program Advisor</li> </ul>	<p>MOT student will collect and select items that demonstrate learning.</p> <p>*At conclusion of PEO (OT 6142), MOT students encouraged to work on their portfolio over fieldwork/summer break.</p>	<p>By the end of September, MOT student completes a checklist that indicates that their portfolio includes:</p> <ul style="list-style-type: none"> <li>• 3 items selected from MOT 1</li> <li>• 1 reflection</li> <li>• 1 PDP (from OT 6142, winter term)</li> <li>• 2 Fieldwork learning summaries:               <ul style="list-style-type: none"> <li>- Basic (OT 6200)</li> <li>- Intermediate 1 (OT 6400)</li> </ul> </li> </ul> <p>Group meeting to brainstorm items for MOT2.</p> <p><i>*PLEO 1 (OT 7542) Course Coordinator lets Advisor know if this step is not completed.</i></p>	<p>By the end of the course, MOT student adds:</p> <ul style="list-style-type: none"> <li>• 3 items selected from MOT 2</li> <li>• 2 reflections</li> <li>• 2 PDPs (completed in OT 7542 &amp; OT 7742)</li> <li>• 1 Fieldwork learning summary of Intermediate 2 (OT 7600)</li> </ul> <p>MOT student submits for review:</p> <ul style="list-style-type: none"> <li>- Complete portfolio</li> <li>- Final Portfolio reflection</li> </ul> <p><i>*Program Advisor confirms Pass/Fail using the <b>Final Student Professional Portfolio Evaluation</b> form.</i></p> <p><i>Program Advisor confirms outcome to PLEO 2 (OT 7742) Course Coordinator.</i></p>

- o Colleges and universities outside Canada which are officially recognized by the Faculty of Graduate Studies.
- Graduates from first-cycle Bologna compliant degrees.
- Students who have completed a Pre-Master's program from:
  - o The University of Manitoba (see General Regulations - Pre-Master's); or
  - o Canadian institutions empowered by law to grant degrees; or
  - o Colleges and universities outside Canada which are officially recognized by The Faculty of Graduate Studies.

All students applying for a Master's degree program must have attained a minimum GPA of 3.0 in the last two (2) full years (60 credit hours) of study. This includes those applying for direct admission and those entering from a Pre-Master's program. Students who meet the minimum requirements for admission to the Faculty of Graduate Studies are not guaranteed admission.

**Note:** This is the minimum requirement of the Faculty of Graduate Studies and departments/units may have higher standards and additional criteria.

Eligible applicants will be considered in the following order of priority:

- 1) Manitoban
- 2) Other Canadian
- 3) International

Regular Program Entry Requirements

- completion of a 3 or 4 year undergraduate degree;
- minimum B (3.0) average in last 60 credit hours of study;
- proof of Indigenous ancestry (copy of Treaty card, Manitoba Métis membership card, or letter from Band Council; copy of Nunavut Trust Certificate card), if applicable;
- completion of the following prerequisite courses or equivalents\*, with no grade below a B (3.0):
  - Anatomy of the Human Body
  - Physiology of the Human Body
  - ~~Introductory Statistics~~
  - Minimum 3 credit hours in Psychology
  - Minimum 3 credit hours in Social Sciences

\*A list of prerequisite courses and equivalents is available from the Department of Occupational Therapy website.

Eligible applicants are ranked for an interview within their priority category as listed above using a weighting of:

- 1) CASPer Test Z-Score weighted at 30%
- 2) Last 60 credit hour GPA Z-Score weighted at 70%

Selected eligible applicants are interviewed and are ranked within their priority group as listed above, using an equal weighting of:

- 1) GPA of the last 60 credit hours
- 2) interview score

Successful applicants who accept an offer of admission to the Master of Occupational Therapy program must submit the following documentation by the deadlines published yearly and provided to successful applicants with the offer of admission.

- completed Health Questionnaire, Immunization Status/Record and MIMS Release of Information;
- current certification in CPR at the Basic Life Support (BLS) Provider level (or higher) ;
- current Criminal Record Check including a vulnerable sector check;
- current Child Abuse Registry Check;
- current Adult Abuse Registry Check;
- a Certificate in Emergency First Aid is strongly recommended but not required.



FGS Academic Guide Regulation 2021/22	Supplementary Regulation
	<p>Additional requirements are mandatory in subsequent year(s) of the program. No student will be allowed to participate in fieldwork placements without meeting all requirements. Please see information provided by the department for greater detail.</p> <p><u>Accelerated Program Entry Requirements</u></p> <ul style="list-style-type: none"> <li>➤ completion of a BMR (OT) degree or equivalent;</li> <li>➤ minimum B (3.0) average in last 60 credit hours of study;</li> <li>➤ successful completion of 42 non-BMR(OT) degree credit hours;</li> <li>➤ evidence of having passed the Canadian Association of Occupational Therapists certification examination and/or eligibility for registration in Manitoba by the College of Occupational Therapists of Manitoba.</li> </ul>
<p><b>4.3 Program Requirements</b></p> <p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	
<p><b>4.3.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p>Not applicable for MOT program.</p>
<p><b>4.3.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless a department/unit's supplementary regulations indicate otherwise. A comprehensive examination is required for some course-based programs.</p>	<p><u>Regular Program</u></p> <ul style="list-style-type: none"> <li>➤ minimum of two calendar years of course work and fieldwork experience (107 credit hours)**</li> <li>➤ <del>preparation of a professional portfolio</del></li> </ul> <p>**Required courses:</p> <p><u>Year 1</u></p> <ul style="list-style-type: none"> <li>OT 6100 Human Determinants of Occupational Performance - 6 cr</li> <li>OT 6110 Fundamentals of Occupational Therapy Theory - 3 cr</li> <li>OT 6122 Foundations of Health and Well-being - 3 cr</li> <li>OT 6130 Occupational Therapy Practice Skills 1 - 3 cr</li> <li>OT 6142 Professionalism and Enabling Occupation - 7 cr</li> <li>OT 6190 Fieldwork Preparation – 1 cr</li> <li>OT 6200 Basic Fieldwork - 4 cr</li> <li>OT 6300 Analysis of Occupation - 4 cr</li> <li>OT 6310 The Environment and Occupational Performance - 4 cr</li> <li>OT 6320 Health Conditions and Occupational Performance - 4 cr</li> <li>OT 6330 Occupational Therapy Practice Skills 2 - 4 cr</li> <li>OT 6352 Foundations of Evidence-informed Occupational Therapy - 4 cr</li> </ul>

FGS Academic Guide Regulation 2021/22	Supplementary Regulation
<ul style="list-style-type: none"> <li>• must be approved for transfer to the program of study by the department/unit and the Faculty of Graduate Studies before the student may register for them;</li> <li>• are considered on an individual basis;</li> <li>• cannot be used for credit towards another degree;</li> <li>• may not exceed 50% of the minimum credit hours of coursework required of the student's graduate program at The University of Manitoba.</li> </ul> <p>Permission is granted in the form of a <u>Letter of Permission</u> which may be obtained by making an application to the Registrar's Office; an original transcript and course equivalency must be provided.</p>	
<p><b>4.3.7 Time in Program</b></p> <p>The minimum time for students in the Master's program is equivalent to two (2) terms. Completion of most programs requires more than this and students should check department/unit supplementary regulations regarding specific requirements.</p> <p>The maximum time allowed for the completion of the Master's degree is four (4) years for students declared as full-time and six (6) years for students declared as part-time (see <u>Student Status/Categories of Students</u> for information on calculating maximum time for students). Individual department/units and/or programs may have specified minimum and maximum time limits, and students should periodically check department/unit supplementary regulations regarding these specific requirements.</p> <p>Requests for extensions of time to complete the degree will be considered on an individual basis and must be submitted to the Dean of the Faculty of Graduate Studies using the "<u>Time Extension Request</u>" form <b>at least three (3), but no more than four (4), months</b> prior to expiration of the respective maximum time limit.</p> <p>A student who has not completed the degree requirements within the time limit or within the time limit of the extension will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".</p>	<p>The MOT <u>Regular program</u> is 22 months in duration.</p> <p>Students normally complete the MOT <u>Accelerated program</u> in 1 year.</p> <p>Exceptions to these time limits may be permitted, due to mitigating circumstances, at the discretion of the Occupational Therapy Department Head, in consultation with the Program Advisor and where appropriate, the MOT Student Progress Committee, and must be approved by the Dean of Graduate Studies.</p>
<p><b>4.4 Student's Advisor and Co-Advisor</b></p> <p><b>4.4.1 Student's Advisor</b></p> <p>Each student should have an advisor upon entry into the program, and must have one assigned no later than one (1) term following initial registration. The advisor must:</p> <ul style="list-style-type: none"> <li>• hold an appointment in the student's department/unit;</li> <li>• be a member of the Faculty of Graduate Studies<sup>1</sup>;</li> <li>• hold at least a Master's degree or equivalent<sup>2</sup>;</li> <li>• be active in their field;</li> <li>• have expertise in a discipline related to the student's program.</li> </ul> <p><sup>1</sup> <a href="http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html">http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html</a></p> <p><sup>2</sup> Equivalency will be approved by the Dean of the Faculty of Graduate Studies and determined on a case-by-case basis and assessed by the potential advisor's demonstrated research record and current research activities. Note that M.D., D.M.D., Pharm.D. and J.D. are undergraduate degrees and are not equivalent to a Master's or Ph.D.</p> <p>It is the responsibility of the department/unit Head to determine whether faculty members meet these criteria, and also to report to the Dean of the Faculty of</p>	<p>In the MOT course-based entry-level professional program, the Program Advisor's role is to advise students on how best to achieve their academic goals. The Advisor is responsible for monitoring the student's academic and fieldwork progress, <del>including monitoring the development of the student's professional portfolio.</del></p> <p>Program Advisors must have a Master's degree or equivalent (e.g., relevant and sufficient clinical/teaching experience).</p>

Normally, if it is determined, once official academic grades are available, that a student received a fail in preceding academic course work, then that student will be required to withdraw from the fieldwork course.

Normally, when it is known prior to the start of a fieldwork course that a student has received a fail in preceding academic course work, that student will not be permitted to progress into the fieldwork course. Upon successful completion of the failed academic course, the student will be permitted to proceed with the fieldwork course.

**3. Progression Following a Fail in a Supplemental Examination:**

A student who fails a supplemental examination will be required to withdraw from the program. A student will not be permitted to repeat an academic course.

Progression into Advanced Fieldwork Course

Progression into the Advanced Fieldwork course is permitted only once a student has a) successfully completed all previous fieldwork courses, and b) successfully completed or is nearing completion of all academic coursework. Progression into Advanced Fieldwork will be determined by the Academic Fieldwork Coordinator, or designate, in consultation with the Occupational Therapy Department Head, relevant course coordinator(s), and the student's Program Advisor. This ensures that a student completes the final fieldwork experience just prior to graduation and entry into occupational therapy practice.

**4.6.5 Performance not related to Coursework**

In some departments/units, students are required to demonstrate satisfactory academic performance in areas not related to performance in courses, such as attendance at or participation in course lectures, seminars and in laboratories and progress in research, thesis or practicum. The specific nature of satisfactory academic performance is outlined in individual department/unit supplementary regulations and students should consult these supplementary regulations for specific requirements. Unsatisfactory performance must be reported to the Faculty of Graduate Studies on the "Progress Report" form. Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the department/unit Head to the Dean of the Faculty of Graduate Studies.

Professional Behaviour

As an entry to practice professional degree program, there are program expectations designed to ensure that students in the program are developing the competencies and accountability standards that reflect the public expectation of practicing professionals in the field. As such, students are expected to take responsibility for their learning and to ~~document their progress in a portfolio, and to~~ adhere to policies of attendance and participation related to classes and fieldwork placements.

Personal Integrity

Each student must provide results of a Child Abuse Registry Check, an Adult Abuse Registry Check, and a Criminal Record Check.

Any student who demonstrates behaviour with respect to other students, colleagues, faculty, clients or the general public that is exploitative,

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Physiology & Pathophysiology.

### **Observations**

1. The **Dept. of Physiology & Pathophysiology** proposes supplementary regulation changes to clarify that the requirements for transfer from the M.Sc. to the Ph.D. program must be met within 16 months of entry into the student's M.Sc. program, to make it consistent with the FGS Academic Guide (section 5.1.3).

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program change from the unit listed below be approved by Senate:**

#### **Dept. of Physiology & Pathophysiology**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

	Bachelor's degree or equivalent into the Ph.D. program.
<p><b>5.1.3 Transfer from the Master's to the Ph.D. Program</b></p> <p>Students who have not completed a Master's program may transfer to the Ph.D. program within the same department/unit upon the recommendation by the Head of the department/unit to the Faculty of Graduate Studies. The recommendation should be made within four (4) terms (including Summer term) from the start of the Master's program. Fees paid, coursework completed and time spent in the Master's program will normally be credited towards the Ph.D. program. Students must complete at least 24 credit hours of coursework, unless the individual department/unit's approved supplementary regulations specify otherwise. A minimum of 18 credit hours at the 7000-level or higher is required. Any further coursework beyond the minimum 18 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.</p> <p>The request to transfer from a Master's to the Ph.D. program must be submitted to the Faculty of Graduate Studies at least one (1) month prior to the term for which the student intends to start the Ph.D. program. The applicant must indicate a request for transfer on the online admissions application.</p> <p>The student will be admitted to a 3-year Ph.D. program and will pay a total of three years of program fees, including program fees paid in the Master's at the time of transfer. Students are cautioned that such transfers may impact on the duration of The University of Manitoba Graduate Fellowship.</p> <p>Students who have previously completed a recognized Master's degree and are initially admitted and registered in a Master's program may transfer to the Ph.D. program within the same department/unit on the recommendation of the student's advisor/co-advisor and Head of the department/unit. Where a student holds a Master's degree that would be sufficient for admission to the Ph.D. program, students must complete at least 12 credit hours of coursework, unless the individual department/unit's approved supplementary regulations specify otherwise. The student will be admitted to a 2-year Ph.D. program and will pay a total of two years of program fees, including program fees paid in the Master's at the time of transfer.</p>	<p>Students may apply for entry to the Ph.D. program after having completed 12 <del>48</del> months in the M.Sc. program upon the recommendation of the Department. The interested student should consult with their advisor and if they agree, then the request for entry to the Ph.D. Program will be considered <u>provided the requirements noted below are met within 16 months of entry into their M.Sc. program.</u></p> <p>Students who wish to to transfer to the Ph.D. program in the Department:</p> <ol style="list-style-type: none"> <li>1) must have been in the M.Sc. program for less than <del>48</del> 16 months;</li> <li>2) have normally completed 9 credit hours of coursework;</li> <li>3) have a GPA &gt; 3.0 based on graduate level course-work;</li> <li>4) have passed their M.Sc. thesis proposal;</li> <li>5) have received at least a satisfactory rating in all Progress Reports;</li> <li>6) <del>advisor submits have</del> a request <u>submitted</u> to the Department Head for permission to transfer <u>from their advisor</u>;</li> <li>7) <u>must</u> provide a letter of support from their current advisor for transfer and stating that the student has demonstrated a capacity for independent and original research appropriate for the Ph.D. level;</li> <li>8) obtain a letter from their prospective Ph.D. advisor(s) (may be current) stating that sufficient funds are available to provide at least the minimum level and duration of financial support most recently approved by majority vote at Department Council for a Ph.D. student after transfer;</li> <li>9) complete a written report of normally two-three pages that:       <ol style="list-style-type: none"> <li>a. demonstrates evidence of research competence (e.g., ability to understand and employ scientific method in an ethical manner, and present findings);</li> <li>b. describes a project that is appropriate for a Ph.D.</li> </ol> </li> <li>10) provide to the examination committee (advisory committee plus one member of the Graduate Program Committee) a 30-minute presentation that encompasses research productivity and a proposed project (which may be a more comprehensive continuation of the M.Sc. project); and</li> <li>11) pass an oral defence (normally 1 hour) of their written report and presentation – a pass requires that the examination committee members agree, with no more than one dissenting vote, that the student has met the requirements outlined in item 9.</li> </ol>

## Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes

### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Faculty of Social Work.

### Observations

1. The **Faculty of Social Work** proposes (10) course deletions: SWRK 7290, SWRK 7310, SWRK 7390, SWRK 7400, SWRK 7420, SWRK 7480, SWRK 7490, SWRK 7610, SWRK 7680, SWRK 7690; (5) course modifications: SWRK 6010, SWRK 6070, SWRK 7600, SWRK 7620, SWRK 7640; and MSW and MSW-Indigenous Knowledges supplementary regulation changes.

The course modifications to SWRK 7600, 7620, 6010, and 6070 consist of added language to give priority to MSW students registering in these required courses. Due to a recent change to the MSW curriculum, these four courses are now requirements in the MSW, and MSW students need to register in them when needed to ensure timely completion of their degree requirements.

The course modification to SWRK 7640 consists of removing SWRK 7630 and 7300 as pre- and co-requisites so as to provide greater flexibility to students in choosing elective courses in the program.

SWRK 7610 is proposed for deletion because the content taught in the course was deemed to be redundant for students at the graduate level.

SWRK 7680 and 7690 are proposed for deletion because of overlap in the content of these two courses. The addition of a new 3 credit hour course will be proposed to replace the content in these two courses.

The remaining courses are proposed for deletion because they have not been taught in past ten years.

The MSW supplementary regulation changes relate to the Graduate Focus on Aging Concentration: specifically, to allow students taking this concentration to complete the 6 credit hours of courses as electives outside of the Faculty of Social Work courses. Currently, MSW students can take only one 3 credit hour elective outside of the Faculty of Social Work courses.

The MSW-Indigenous Knowledges supplementary regulation changes consist of restricting the following courses to MSW-IK students only: SWRK 7750 Indigeneity, Power, Privilege, and Social Work; SWRK 7780 Social Work, Social Challenges, and Indigenous Peoples; and SWRK 7810 Anti-Colonial Social Work (formally part of the Indigenous Practices Cluster).

The MSW-IK is a unique program that brings together Indigenous scholars and Indigenous Knowledge Holders as co-instructors and providing a specific opportunity to bring together Western and Indigenous Knowledges. The rationale for the change in practice is to retain and strengthen the original intent and model of the MSW-IK and its uniqueness.

When the MSW-IK was originally conceived, the MSW's Indigenous Practices Cluster was a means to have a link between the MSW and MSW-IK programs. The notion was that if there was low enrollment or admission to the MSW-IK, then these courses could be filled with students from the MSW program. This avenue was meant as a way to strengthen the MSW-IK (if needed) and ensure its viability. Since the implementation of the MSW-IK, this link has been unnecessary. The program receives more applicants than it can place each academic year. The courses are all well subscribed (average of 15-20 students per course). Over time, students from the MSW and other graduate-level programs have been registered into some of the MSW-IK courses. This has proved problematic for several reasons:

- These students are ill prepared to engage in the discussions because a) they have not taken the theory offered through the other MSW-IK courses; and b) they do not have the foundation in the Indigenous Knowledges also provided in the other and pre-requisite MSW-IK courses. This has meant that the students, instructors, and knowledge holders have had to slow and retrace some learning in order to accommodate and include the non-MSW-IK students in these courses;
- The students in the MSW-IK program are required to attend a five day and night culture camp when they enter the program. This is a course and experience that is specifically designed to prepare them to take the courses and engage in the difficult course readings and discussions that are crucial to this program. This culture camp experience also creates a cohort effect that introduces the incoming students to each other and is intended to build relationship, so that students are later able to engage with difficult course content. When students from the MSW or other programs enter the MSW-IK courses (without the culture camp experience), they disrupt the cohort effect;
- The admission requirements for the MSW-IK require that students admitted to the program have a) experience working with/for Indigenous communities, Peoples, and agencies; and b) an interview through which their readiness to be in the program and their respect for the Indigenous Knowledges taught in the courses is assessed. Non-MSW-IK students randomly placed into courses by-pass this important and crucial process. Some of the students admitted to the courses previously have struggled because they were not similarly chosen;
- Through the MSW-IK courses, the Knowledge Holders share knowledge of Indigenous traditions and practices with students. The Knowledge Holders have expressed concerns about the presence of non-MSW-IK students hearing and then thinking that they have acquired this knowledge, but without the accountability of committing to being in the full program and engaging in the work of understanding where these knowledges are situated and the context of their use.

#### Course Deletions

<b>SWRK 7290 Family Focused Social Work Practice</b>	<b>-6</b>
<b>SWRK 7310 Social Service Administration Practice</b>	<b>-6</b>
<b>SWRK 7390 Advanced Social Work Practice Seminars</b>	<b>-3</b>
<b>SWRK 7400 Theoretical Foundations of Social Service Administration</b>	<b>-3</b>
<b>SWRK 7420 Theoretical Foundations of Social Policy Analysis, Planning and Evaluation</b>	<b>-3</b>
<b>SWRK 7480 Advanced Family-Focused Practice</b>	<b>-3</b>
<b>SWRK 7490 Advanced Family-Focused Practice with Special Populations</b>	<b>-3</b>

<b>SWRK 7610 Social Work as a Profession</b>	<b>-3</b>
<b>SWRK 7680 Management of Human Resources in Social Service Organizations</b>	<b>-3</b>
<b>SWRK 7690 Leadership, Strategic Program Planning and Financial Management in Social Service Organizations</b>	<b>-3</b>

Course Modifications

<b>SWRK 6010 Data Analysis for Social Work Research</b>	<b>3</b>
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An intermediate course in the analysis of quantitative social work data. The course will emphasize application and interpretation of analytical techniques useful in the pursuit of social justice through social work. Pre or co-requisite: SWRK 7620 or instructor approval. Priority to be provided to MSW students in course registration.

<b>SWRK 6070 Qualitative Research in Social Work</b>	<b>3</b>
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An intermediate course in qualitative approaches for research for the pursuit of social justice through social work. It will examine various approaches to the design and analysis of qualitative social work research. Pre or co-requisite: SWRK 7620 or instructor approval. Priority to be provided to MSW students in course registration.

<b>SWRK 7600 Critical Perspectives and Social Work</b>	<b>3</b>
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This course focuses on exploring the relationship between critical social theories and social work. Students will examine social work theory and practice from critical theoretical perspectives and analyze their current and past policy and practice experiences from these perspectives. Priority to be provided to MSW students in course registration.

<b>SWRK 7620 Paradigms, Methodologies, and Methods for Social Work Research</b>	<b>3</b>
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An intermediate course that provides an overview of research paradigms, methodologies, and methods. Students will be prepared to employ research as critical consumers, mobilizers, and producers of knowledge to further social work based on social justice. Priority to be provided to MSW students in course registration.

<b>SWRK 7640 Application and Critique of Theory and Research in Social Work Practice with Individuals and Families</b>	<b>3</b>
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Using supervised practice experiences, this course develops advanced skills for assessment, intervention, and evaluation of direct practice with individuals and families within the context of social work's commitment to addressing social injustice.

<b><u>NET CREDIT HOUR CHANGE</u></b>	<b><u>-36</u></b>
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Recommendations

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

Faculty of Social Work



Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the  
Report to Senate.

<p>Students on an exceptional/parental/regular leave of absence must register in <a href="#">GRAD 7500</a> upon return from leave if it has not already been completed.</p> <p>Visiting and Occasional students are not expected to complete <a href="#">GRAD 7500</a>. For further information see <a href="#">GRAD 7500</a> FAQ: <a href="http://umanitoba.ca/faculties/graduate_studies/registration/grad7500FAQ.html">http://umanitoba.ca/faculties/graduate_studies/registration/grad7500FAQ.html</a>).</p>	
<p><b>2.6 Mandatory Research Integrity Online Course</b></p> <p>All students, including those in a Pre-Master's program, are required to complete <a href="#">GRAD 7300</a> Research Integrity Online Course (0 credit hours) prior to applying to any ethics boards which are appropriate to the student's research or within the student's first year, whichever comes first.</p> <p>Failure to complete this course will result in suspension of registration privileges and a grade of "F/NP" being assigned to the course which may lead to being "Required to withdraw" from the graduate program.</p> <p><b>Notes:</b> Students who successfully complete <a href="#">GRAD 7300</a> Research Integrity Online Course at the Master's level are not normally required to repeat the course at the Ph.D. level so long as no more than one (1) term separates one graduate degree program from another graduate degree program.</p> <p>Students on an exceptional/parental/regular leave of absence must register in <a href="#">GRAD 7300</a> upon return from leave if it has not already been completed.</p> <p>Visiting and Occasional students are not expected to complete <a href="#">GRAD 7300</a>. For further information see <a href="http://umanitoba.ca/research/integrity/research_integrity.html">http://umanitoba.ca/research/integrity/research_integrity.html</a>.</p>	
<p><b>2.7 Graduate Focus on Aging Concentration</b></p> <p>The Graduate Focus on Aging Concentration is available to any interested student who is enrolled in the Faculty of Graduate Studies and whose graduate work is concentrated in aging. To be eligible, a "Student intention to receive the Graduate Focus on Aging Concentration" form must be submitted to the Faculty of Graduate Studies. Masters or Doctoral students must complete the requirements of the program to which they have been admitted and the requirements of the Graduate Focus on Aging Concentration.</p> <p>The Graduate Focus on Aging Concentration requirements include:</p> <ol style="list-style-type: none"> <li>1. Six (6) credit hours of graduate (7000-level or higher) courses that focus on aging and are approved by the student's Advisory Committee;</li> <li>2. A thesis/practicum on an aging-related topic;</li> <li>3. Having at least one Advisory committee member who is officially affiliated with the Centre on Aging as a Research Affiliate; and</li> <li>4. Participating in the annual Spring Research Symposium of the Centre on Aging at least once as a poster presenter.</li> </ol> <p>Graduate students may be able to attain their 6 credit hours of courses within the existing course requirements of their graduate program. Students must attain a</p>	<p><a href="#">MSW students registered in the Graduate Focus on Aging Concentration can increase the number of non-social work courses from 3 to 6 credit hours, while reducing the specialized social work course requirements from 9 to 6 credit hours.</a></p>

**4.4.1 Thesis/Practicum Route**

A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.

The two-year Master of Social Work (MSW) Program provides two entry routes:

1. Foundation Level for students who have completed a four-year undergraduate degree, but do not have a Bachelor of Social Work (BSW) degree from an accredited program or its equivalent;
2. Advanced Level for students with a BSW degree from an accredited program.

Students may take the MSW program on a full-time or part-time basis. There is a four-year time limit to complete the MSW program on a full-time basis and a six-year time limit to complete the MSW program on a part-time basis.

**Year One Foundation Level**

Students who have completed a four-year undergraduate degree, but do not have a Bachelor of Social Work (BSW) degree from an accredited program or its equivalent will be offered admission into the first and foundation year of the MSW program. This first year will be 24 credit hours of foundation level courses and six credit hours of field work.

All courses and the field component of the foundation year must be completed before students register into the year two advanced level courses. In order to complete and receive the MSW degree, students must complete both the year one foundation level and the year two advanced level courses of the MSW or MSW-IK Program. The program requires at least one year to complete the foundation level courses and at least another 12-18 months of full-time study for the advanced level courses of the MSW or MSW-IK Program.

**COURSE REQUIREMENTS (30 CH)**

- SWRK 7002 Foundation in Social Work Practice and the Profession (3CH)
- SWRK 3130 Contemporary Canadian Social Welfare (3CH)
- SWRK 4220 Social Work and Aboriginal People (6CH)
- SWRK 4200 Field Focus of Social Work Practice (6CH)
- SWRK 6050 Advanced Field Practice (6CH)
- SWRJ 6020 Social Work Practice Seminar Course (6CH)

**Year Two Advanced Level**

Students with a BSW degree from an accredited program will be admitted directly into the second and advanced year of the MSW Program.

The Program requires at least 12-18 months of full-time study (students who choose the thesis option may require more time depending on the nature of their research).

The second year advanced level courses include both common core and specialized courses. This structure ensures that students have knowledge and skills required to meet the standards of our accreditation body, the Canadian Association for Social Work Education (CASWE). The program offers students flexibility in designing a program that meets their learning objectives.

The credit hour requirement is 27 credit hours in the course-based option and 24 credit hours in the thesis option.

All students must complete four core courses (12 CH), and an additional 9CH of specialized courses from within Social Work.

All students must complete an additional 3 credit hours of electives which may be taken within Social Work or other departments. [MSW students registered in the Graduate Focus on Aging Concentration can increase the number of non-social work courses from 3 to 6 credit hours, while reducing the specialized social work course requirements from 9 to 6 credit hours.](#)

#### **COURSE REQUIREMENTS**

##### **Core Courses (12CH):**

**These courses are required for all students.**

- SWRK 7600 Critical Perspectives and Social Work (3 CH);
- SWRK 7620 Paradigms, Methodologies, and Methods for Social Work Research (3 CH);
- SWRK 6010 Data Analysis for Social Work Research (3 CH);
- SWRK 6070 Qualitative Research in Social Work (3 CH).

##### **Specialized Courses (9 CH)**

**All students are required to take 9 credit hours from this list of specialized courses. Not all of the courses will offered in each academic year.**

- SWRK 7630 Advanced Social Work Practice with Individuals and Families (3 CH);
- SWRK 7640 Application and Critique of Theory and Research in Social Work Practice with Individuals and Families (3 CH);
- SWRK 7300 Clinical Evaluation of Social Work Interventions (3 CH);
- SWRK 7650 Advanced Social Work Practice with Groups (3 CH);
- SWRK 7660 Social Work Perspectives on Practice with Networks, Neighbourhoods, and Communities (3 CH);

- SWRK 7670 Community Mobilization: Application of Concepts in Social Work Practice with Groups, Networks, and Communities (3 CH);
- SWRK 7430 Evaluation Research in Social Work Practice (3 CH);
- SWRK 7440 Policy Analysis in Social Work Practice (3 CH);
- SWRK 7680 Management of Human Resources in Social Service Organizations (3 CH);
- SWRK 7690 Leadership, Strategic Program Planning, and Financial Management in Social Service Organizations (3 CH);

**~~MSW-IK Courses open to students in the MSW Program:~~**

- ~~• SWRK 7750 Indigeneity, Power, Privilege, and Social Work (3 CH)~~
- ~~• SWRK 7780 Social Work, Social Challenges, and Indigenous Peoples (3 CH)~~
- ~~• SWRK 7840 Anti-Colonial Social Work (3 CH)~~

~~MSW-IK students are given priority in registration and space allocation. All other students must seek written permission of the course instructor to register for the above MSW-IK courses.~~

**STUDENTS ADMITTED PRIOR TO 2014**

1. Students admitted to the MSW program concentrate their studies in one of two streams: Social Clinical Intervention Stream OR Social Services Administration Stream.

Students must complete 24 credit hours of courses in one stream plus a thesis or course-based specialization option.

Major course requirements for each stream are outlined below. Course descriptions are provided in the Graduate Calendar.

**Social Clinical Stream:**

Core Courses:

- SWRK 6010 Data Analysis for Social Work Research (3 CH) or SWRK 6070 Qualitative Research for Social Work (3 CH);
- SWRK 7290 Family-Focused Social Work Practice (6 CH);
- SWRK 7300 Clinical Evaluation (3 CH);
- SWRK 7390 Advanced Social Work Practice Seminar (3 CH)

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Sociology & Criminology.

### **Observations**

1. The **Dept. of Sociology & Criminology** proposes M.A. supplementary regulation changes consisting of the addition of a mandatory theory requirement for the Master's program. Sociological theory is a requirement for Master's programs in Sociology in many Canadian universities. The department believes that Master's students should have at least one course in theory at the 7000-level, as theory is foundational to the study of the discipline.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

#### **Dept. of Sociology & Criminology**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

	<p>Applications from students who self-identify as Indigenous or Aboriginal including First Nations, Métis, Inuit, will be reviewed to determine whether special admission consideration is warranted in cases where the GPA falls below minimum entry requirements, and the letters of reference and statement of intent are particularly strong. This consideration is in accordance with the university's mandate as stated on the 'Indigenous Connect' webpage at <a href="http://umanitoba.ca/admin/indigenous_connect/3388.html">http://umanitoba.ca/admin/indigenous_connect/3388.html</a>:</p> <p><b>'Indigenous Achievement:</b> The University of Manitoba is committed to Indigenous Achievement and to ensuring the success of First Nations, Métis and Inuit students and graduates. We are dedicated to making the University of Manitoba a place where all Indigenous students have a home.</p> <p><b>Vision:</b> The University of Manitoba will work with a variety of partners to make Manitoba the national centre for Indigenous education and research and in particular to allow First Nation, Métis and Inuit students to be prepared for and to achieve education success in the full range of academic programs we offer."</p>
<p><b>4.3 Program Requirements</b></p> <p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	
<p><b>4.3.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p>M.A. students are required to complete 18 credit hours (6 courses), comprising at least 12 credit hours of Sociology at the 7000-level, 3- credit hours of which must be a methods course, <u>and 3-credit hours of which must be a course in Sociological theory (i.e., one of: SOC 7190, SOC 7320, SOC 7430, SOC 7440, SOC 7480 or SOC 7280)</u>. Students will not normally be permitted to take directed reading courses, except under exceptional circumstances. In those instances where a reading course is permitted, no more than 3 credit hours will be counted towards a student's required coursework for their program. Courses outside the department of Sociology and Criminology will normally be at the graduate level, and selected by the student in consultation with his/her Advisor (where applicable) and the Graduate Chair.</p>
<p><b>4.3.2 Course-based or Comprehensive Examination Route</b></p>	

October 14, 2021

**Report of the Senate Committee on Instruction and Evaluation RE: Revised Entrance Regulations, Bachelor of Arts (Major) and Minor in Labour Studies, Faculty of Arts**

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**Preamble:**

1. The terms of reference for the Senate Committee on Instruction and Evaluation (SCIE) can be found at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/502.html](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/502.html).
2. At its meeting on October 14, 2021 the committee considered a proposal from the Faculty of Arts regarding revised entrance regulations for the Bachelor of Arts (Major) and Minor in Labour Studies.

**Observations:**

1. Currently students are required to obtain a of “C” or better in both LABR 1260 and LABR 1290 for entrance to the Bachelor of Arts (Major) or the Minor in Labour Studies. A shortage of spaces in first year courses results in some students delaying their entry into the program, and a less than accurate assessment of the number of students who intend to complete a Bachelor of Arts (Major) or a Minor in Labour Studies.
2. In order to remedy this issue, the Faculty is proposing that students would be required to obtain a grade of “C” or better in LABR 1260 or LABR 1290 for entrance to the Bachelor of Arts (Major) or Minor in Labour Studies.

**Recommendation**

The Senate Committee on Instruction and Evaluation recommends:

***THAT Senate approve the proposed revised entrance regulations for the Bachelor of Arts (Major) and Minor in Labour Studies, Faculty of Arts, effective September 1, 2022.***

Respectfully submitted,

Dr. Mark Torchia, Chair  
Senate Committee on Instruction and Evaluation

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



## Report of the Senate Committee on Instruction and Evaluation RE: Experiential Learning Typology

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### Preamble:

1. The terms of reference for the Senate Committee on Instruction and Evaluation (SCIE) can be found at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/502.html](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/502.html).
2. At its meeting on October 14, 2021 the committee discussed the attached Experiential Learning Typology.

### Observations:

1. The Experiential Learning Typology has been developed over a two-year period, following a review of practices at other post-secondary institutions and in consultation with campus partners. The document was further refined through input from the Indigenous Student Centre and Indigenous initiatives educators from The Centre.
2. The Experiential Learning Typology is intended to reflect an institutional commitment to responding in a meaningful and intentional way to the Truth and Reconciliation Committee Calls to Action and to equity, diversity and inclusion principles.
3. Experiential Learning has occurred at the University for decades, both inside and outside the classroom. Experiential Learning is a valuable pedagogical tool, which has been reinforced by the University as part of the University's Strategic Plan and identified as one of five priorities over the next 12 to 18 months.
4. The definition of Experiential Learning is holistic and acknowledges the intentional engagement of students to contribute to deeper learning, personal growth and the development of core competencies.
5. A pilot project is ongoing with the Faculty of Agricultural and Food Sciences, to use the Experiential Learning Typology to categorize courses and develop an online catalogue of Experiential Learning.
6. There are 12 types of Experiential Learning Types, which could be integrated in the curriculum, address specific outcomes in a co-curricular setting, and/or take place in the work-integrated setting, as identified in Table 1.
7. Definitions are provided for a range of different types of Experiential Learning in Table 2.
8. The committee provided feedback on the six Criteria, and noted that the first criteria included a number of different concepts, and suggested that it might be clearer if it was separated into multiple criteria.

9. The committee noted that engagement in digital environments was not reflected in the document.

Respectfully submitted,

Dr. Mark Torchia, Chair  
Senate Committee on Instruction and Evaluation



## Experiential Learning (EL) at the University of Manitoba

Since the University's founding, in formal and informal learning spaces, experiential learning has served as an important pedagogical tool. It has not only provided opportunities for students to apply their learning in a range of diverse contexts, but to develop the knowledge, skills and dispositions critical to life, work and global citizenship. The University recognizes that experiential learning integrates principles drawn from Indigenous pedagogies, including respect, reciprocity and reflection, and that it is a form of learning that is inextricably linked to Indigenous ways of knowing, being and doing (Battiste, 2005)<sup>1</sup>. UM is committed to responding to the Truth and Reconciliation Commission's (TRC) Calls to Action<sup>2</sup> (CTA) and acknowledges that experiential learning can serve as a powerful vehicle for engaging students directly in this essential work (see cross-references within Table 1).

### Definitions

**Experiential Learning (EL)** is a pedagogical strategy that advances learning, personal growth and competency development by engaging undergraduate and graduate students directly in the application of theoretical concepts in diverse contexts, and critical reflection on those experiences.

**Work-Integrated Learning (WIL)** is a model and process of experiential learning that intentionally integrates a student's academic studies within a workplace or practice setting. WIL experiences are a subset of EL that include an engaged partnership of at least an academic institution, a host organization, and an undergraduate or graduate student<sup>3</sup>.

**Critical Reflection** is an integral component of experiential learning that intentionally engages students, prior to and throughout their learning experience, in thinking critically about new knowledge and skill development outcomes, and both the potential and ultimate impact their experience had on their worldviews, feelings, behaviour, and ways of being. Reflection offers opportunities to gain new perspectives and understandings; to increase self-efficacy; to clarify assumptions, and develop a rationale

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<sup>1</sup> Battiste, M. (2002). Indigenous Knowledge and Pedagogy in First Nations Education: A Literature Review with Recommendations. Prepared for the National Working Group on Education and the Minister of Indian Affairs. Ottawa: Indian and Northern Affairs Canada (INAC). Retrieved from [https://www.afn.ca/uploads/files/education/24\\_2002\\_oct\\_marie\\_battiste\\_indigenousknowledgeandpedagogy\\_lit\\_review\\_for\\_min\\_working\\_group.pdf](https://www.afn.ca/uploads/files/education/24_2002_oct_marie_battiste_indigenousknowledgeandpedagogy_lit_review_for_min_working_group.pdf)

<sup>2</sup> Truth and Reconciliation Commission of Canada, United Nations, National Centre for Truth and Reconciliation. (2015). Truth & Reconciliation: Calls to Action. Retrieved from [https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/indigenous-people/aboriginal-peoples-documents/calls\\_to\\_action\\_english2.pdf](https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/indigenous-people/aboriginal-peoples-documents/calls_to_action_english2.pdf)

<sup>3</sup> Adapted from the definition developed by Co-operative Education and Work-Integrated Learning Canada – CEWIL. See: <https://www.cewilcanada.ca/CEWIL/About%20Us/Work-Integrated-Learning/CEWIL/About-Us/Work-Integrated-Learning.aspx?hkey=ed772be2-00d0-46cd-a5b8-873000a18b41>

for actions and approaches; to take informed action; and to focus on continuous growth and improvement.

## Criteria

At the University of Manitoba, EL occurs within the curriculum and in co-curricular settings. **Institutionally recognized** EL must meet each of the following six criteria:

1. The learning experience is grounded in an **intentional** experiential learning approach that is **respectful** and **inclusive** of diverse worldviews and approaches to teaching and learning;
2. Institutionally recognized learning and/or competency development outcomes are embedded in the course curriculum or co-curricular program;
3. The experience takes place in a **formal learning space, workplace, practice, campus, digital, community or land-based setting**, with structured supervision;
4. Students engage in experiences that are **relevant** to their intellectual, personal and professional growth, promote **meaningful** relationships with others and the natural world, and include opportunities for self-directed learning, role-modelling, co-creation and transfer of knowledge;
5. The experience is either integrated within a **credit/credential-bearing** course or academic program, or formally recognized by the Institution as an official **co-curricular** EL offering; and
6. Students have opportunities to process what they have learned by engaging in **critical reflection**, and to demonstrate reflective practice.

## Types of Experiential Learning

The 12 types of experiential learning identified in the table below are integrated within the curriculum, intentionally designed to address specific outcomes in co-curricular settings and/or situated within a workplace. They provide opportunities for students to respond directly to the TRC's Calls to Action, and reflect our commitment to the education of the whole student, the diversity of learning experiences at UM, and the dynamic, seamless nature of the experiential learning landscape.

Table 1

Experiential Learning Types	Curricular	Co-Curricular	Work-Integrated	Opportunity for TRC CTA impact
Applied Research	●	●	●	#53 & 53iii
Creative Works	●	●	●	#75-83
Community Engaged Learning (CEL)	●	●	●	#87 & #91
Campus Integrated Learning (CIL)		●		#63 & #62ii
Co-operative Education	●		●	#69i

<b>Entrepreneurship</b>	●	●	●	#91i, 92ii, 92iii
<b>Industry Project</b>	●	●	●	#93
<b>Internship</b>	●		●	#66
<b>Laboratories and Studios</b>	●			#83
<b>Program-Based Experience</b>	●		●	#84, ii, iii
<b>Project-Based</b>	●	●		#15
<b>Work Experience</b>	●	●	●	#57

## EL Types Defined

Table 2

<b>Applied Research</b>	Systematic investigation and original research, including research that utilizes Indigenous methodologies, conducted by a student under faculty guidance and/or co-created through collaboration with a community partner and faculty researcher.
<b>Community Engaged Learning (CEL)</b>	Learning opportunities developed through collaborative and reciprocal partnerships between community, faculty/staff and students. The site of learning can be the classroom, the community or a land-based setting and the spectrum of engagement can vary from knowledge exchange and consultation to involvement, collaboration, and co-creation with community partners.
<b>Campus Integrated Learning (CIL)</b>	Intentionally designed and institutionally recognized experiences on campus with a strong focus on personal growth and competency development with clearly defined learning outcomes and regular coaching, mentorship and/or supervision. For example, Elder or ceremonial helpers, elected and appointed governance and student leadership roles, orientation leaders, peer helpers, student participation in Sweatlodges and other ceremonies.
<b>Co-operative Education</b>	A Senate-approved academic program that alternates academic study with paid, full-time, supervised work experience. It is linked to the student's area of study in appropriate fields of business, industry, government, social services, academic research and the professions in accordance with minimum criteria.
<b>Creative Works</b>	Intensive creative effort that results in the production of fine artwork, dance, writing, filmmaking, musical compositions and other forms of creative expression. Examples include oral tradition and storytelling, design, self-organized paid performances, non-course-related rehearsals and music practices.
<b>Entrepreneurship</b>	Engagement in the early-stage development of business start-ups and/or the advancement of ideas that address real-world challenges, while leveraging resources, space, mentorship and/or funding to achieve the desired outcomes.

<b>Industry Project</b>	Students, individually or in teams apply discipline-specific knowledge to address an organizational challenge, explore a new idea, or start a new venture. Examples include business clinics, UMIDEA, and capstone projects.
<b>Internship</b>	Paid, full-time, supervised work experiences where learning is assessed through a work term report. Unlike Co-op, students do not alternate work experiences with academic terms.
<b>Laboratories and Studios</b>	A distinct component of a course that includes the self-directed application of course concepts in a controlled setting.
<b>Program-Based Experience</b>	Unpaid program- and field-based activities that engage students in exploring and practicing discipline-specific concepts and competencies in a purposeful way for academic credit or recognition. Examples include fieldwork, clinical and professional practice, dental clinics, field placements, law externships, practica, social action participation, field trips, and professional presentations.
<b>Project-Based</b>	Intentionally designed opportunities for students to engage in contextual experiences that require the application of disciplinary knowledge and critical analysis to demonstrate learning or to address a problem or unmet need. Examples include case studies, hackathons, simulations, incubators, problem-solving for industry/community, game-based learning, clients, moot court.
<b>Work Experience</b>	Paid work in an on-campus or off-campus setting that is designed to promote the development of clearly defined competencies, is supervised, is approved by the Institution, and engages students in concrete opportunities to reflect on their learning (e.g., work study, graduate and undergraduate research awards, Teaching Assistants, Mini U Leaders, Residence Advisors, tutors).



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**DATE:** October 18, 2021

**TO:** Jeff Leclerc, University Secretary

**FROM:** **Michael Benarroch, Ph.D.**  
**President and Vice-Chancellor** *M Benarroch*

**RE:** Temporary Increase to Admission Targets, Pharm.D. Program

---

I attach a recommendation from Dr. Todd Mondor, Deputy Provost (Academic Planning and Programs) for a one-time increase to the admission target of the Pharm.D. program for the 2022-23 admissions cycle.

Under the Admission Targets Policy and Procedure, the President may approve changes to admission targets following consultation with the Dean/Director, Senate, and the Board of Governors.

Accordingly, please place this item on the agenda for the November 17, 2021 Senate Executive meeting and the December 1, 2021 Senate Meeting.

**Cc:** Diane Hiebert-Murphy, Provost and Vice-President (Academic)  
Todd Mondor, Deputy Provost (Academic Planning and Programs)  
Laurie Schnarr, Vice-Provost (Students)  
Brian Postl, Dean, Rady Faculty of Health Sciences and Vice-Provost (Graduate Education)  
Lalitha Raman-Wilms, Dean, College of Pharmacy  
Jeff Adams, Registrar and Executive Director, Enrolment Services  
Randy Roller, Executive Director, OIA  
Cassandra Davidson, Academic Program Specialist



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Office of Provost and Vice-President (Academic)

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**Date:** October 15, 2021

**To:** Dr. Michael Benarroch, President and Vice-Chancellor

**From:** Dr. Todd Mondor, Deputy Provost (Academic Planning and Programs)

**Re:** Request for Temporary Increase to Admission Targets, Pharm.D. Program

---

Under the Admission Targets Policy and at the request of Dr. Lalitha Raman-Wilms, Dean, College of Pharmacy, please find attached a proposal for a one-time increase to the admission target of the Pharm.D. program for the 2022-23 admissions cycle from 55 students to 60 students.

Following admission of the first cohort into the Pharm.D. in 2019-20, the College has been unable to meet its annual admission quota of 55 students. To help address this deficiency, the College put forward and Senate approved, revised admission requirements for the 2022-23 admissions cycle. The College is requesting a temporary increase to their admission target for the 2022-23 year to offset the decrease in enrolment experienced since 2019-20. Current course capacity will be sufficient to accommodate this one-time expansion, so no new resources are required.

Consistent with the Admission Targets Policy and Procedure, the President may approve changes to Admission Targets following consultation with the Dean/Director, Senate, and the Board of Governors.

Please provide your advice concerning this matter to the Office of University Secretary by Wednesday, November 3, 2021 so that, if supported, the request may receive timely consideration by Senate and the Board of Governors.

Cc: Diane Hiebert-Murphy, Provost and Vice-President (Academic)  
Laurie Schnarr, Vice-Provost (Students)  
Brian Postl, Dean, Rady Faculty of Health Sciences and Vice-Provost (Graduate Education)  
Lalitha Raman-Wilms, Dean, College of Pharmacy  
Jeff Leclerc, University Secretary  
Jeff Adams, Registrar and Executive Director, Enrolment Services  
Randy Roller, Executive Director, OIA  
Cassandra Davidson, Academic Program Specialist





## *Memorandum*

October 1, 2021

**TO:** Dr. Todd Mondor, Deputy Provost (Academic Planning and Programs)

**FROM:** Dr. Lalitha Raman-Wilms, Dean, College of Pharmacy, Rady Faculty of Health Sciences

**SUBJECT:** Temporary admission quota increase

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The College of Pharmacy is requesting a temporary increase to our admission quota, from 55 to 60 students for the 2022-23 admissions cycle. Please see the attached proposal.

Please let me know if you have any questions or require further information.

Thank you.



The College of Pharmacy (the College) is requesting a temporary increase to its admission quota, under the Admissions Target Policy, from 55 to 60 students for the 2022-23 admissions cycle.

Following the admission of the first cohort into the Pharm.D. in 2019-20, applications to the program have declined from an historic average of approximately 300 p.a., to fewer than 100 p.a., and the College has been unable to achieve its annual admission quotas of 55 students—admissions for 2020-21 and 2021-22 were reduced to 45 and 38 students respectively. The reason for this decline is not entirely clear; however, the COVID pandemic has clearly been a contributing factor, and an extensive review over 2020 uncovered a number of inconsistencies between the UM program’s entrance requirements, and those of other Canadian Pharmacy programs.

A number of changes addressing above inconsistencies were subsequently presented to SCADM on December 14, 2021 and approved at the February 3, 2021 meeting of Senate for the 2022-23 admissions cycle. Included in these changes was the elimination of two in-person admissions assessments, a Critical Skills Essay (conducted by the College) and the Pharmacy College Admission Test (PCAT®)—both of these assessments had previously been discontinued by the other Canadian Pharmacy programs.

Managing these in-person assessments for the 2020-21 and 2021-22 admissions cycles, during the height of the COVID-19 pandemic, was fraught with confusion and difficulty for applicants. It is reasonable to assume that these requirements alone may have significantly contributed to the drop in application numbers during this period.

We anticipate that the revised 2022-23 admission requirements, combined with more proactive recruitment efforts, will ameliorate the current drop in applications; however, downstream graduation numbers associated with this downturn will be impacted. We estimate the loss of a minimum of 32 potential Pharm.D. graduates over the next four years—assuming no further student attrition and the attainment of annual admission quotas of 55 for 2022-23 and beyond. In addition, graduation numbers will be further reduced by the loss of a graduating class in 2022 (approximately 55 graduates), due to a planned fallow graduation year as part of the transition from the B.Sc.(Pharm) to the new Pharm.D. program.

A downturn in the availability of graduating pharmacists is particularly concerning at this time given ongoing concerns with the COVID-19 pandemic, which has increased demands placed on pharmacy services in hospital and community practice settings, as well as demands on pharmacists to support provincial vaccination and testing efforts.

To help offset the above, the College is requesting a temporary increase to its admission quota for 2022-23, from 55 to 60 places. This will also allow the College to monitor application numbers under the revised admission requirements and to evaluate other factors that may be contributing to the current downturn.

In considering this application there have been extensive consultations within the College with the College Leadership Team, the College Admissions Committee, and with faculty and staff. We have also consulted with contributing faculty in the Rady Faculty of Health Sciences, specifically Human Anatomy, Pharmacology, and Biochemistry and Medical Genetics. Their supporting letters are attached. Extensive consultations were also undertaken with the Deputy Registrar and Director of Admissions, and the Lead Admissions Officer from Enrolment Services, and with the Senate Committee on Admissions (SCADM), during the passage of the College’s

revised admission requirements through Senate, mentioned above. As no additional course sections or resources will be required to accommodate this request, and total enrolments will not exceed currently accepted steady state levels, broader consultation across other areas the University was not deemed necessary.



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**Rady Faculty of Health Sciences**  
Max Rady College of Medicine  
Dept. of Human Anatomy & Cell Science

Dr. Sabine Hombach-Klonisch,  
Professor & Head  
Dept. of Human Anatomy & Cell Science  
130-745 Bannatyne Avenue  
Winnipeg, Manitoba  
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Tel: (204) 789-3982  
[Sabine.Hombach-Klonisch@umanitoba.ca](mailto:Sabine.Hombach-Klonisch@umanitoba.ca)

September 28, 2021

To  
Lavern M. Vercaigne, BSc (Pharm), Pharm.D.  
Professor and Associate Dean (Academic)  
College of Pharmacy  
Rady Faculty of Health Sciences  
University of Manitoba  
**RE: PharmD Program increased enrolment**

### Letter of Support

Dear Dr. Vercaigne,

Thank you for reaching out to the Department of Human Anatomy and Cell Science regarding the plan to increase student admission to the PharmD program. The department is aware of the request to increase admissions by five students for the 2022/2023 academic year for the College of Pharmacy as well as the potential for this increase to be in effect for an additional 2-3 years.

The department provides a required course (ANAT 1030) that all pharmacy students participate in during their first year in the PharmD program. I confirm that we have the resources in personnel and the learning material as well as space requirement to accommodate the five additional students in the ANAT 1030 course for the 2022/2023 academic year. I can also confirm that there is the potential to extend this accommodation for the subsequent 2-3 years should this be required for your program.

Altogether, the Department of Human Anatomy and Cell Science fully supports the upcoming changes.

Sincerely,

*S. Hombach-Klonisch*

Dr. Sabine Hombach-Klonisch  
Professor & Head  
Dept. of Human Anatomy and Cell Science  
Tel: (204) 789-3982  
e-mail: [Sabine.Hombach-Klonisch@umanitoba.ca](mailto:Sabine.Hombach-Klonisch@umanitoba.ca)



*CMH*



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September 28, 2021

Lavern M. Vercaigne, BSc (Pharm), Pharm.D.  
Professor and Associate Dean (Academic)  
College of Pharmacy  
Rady Faculty of Health Sciences  
University of Manitoba

Dear Dr. Vercaigne,

On behalf of the Department of Biochemistry & Medical Genetics I am pleased to indicate our support for a temporary increase in student enrollment in BGEN 2010, Applied Nutrition for Pharmacy Practice (2 cr). We can readily accommodate an increase from 55 to 60 students for the 2022/2023 academic year and for 2-3 additional years should that be required.

Thank you for this opportunity to participate in the PharmD program.

Sincerely,

Barbara Triggs-Raine  
Professor and Head



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DATE: November 22, 2021

TO: Jeff Leclerc, University Secretary

FROM: Michael Benarroch, Ph.D.  
President and Vice-Chancellor

RE: Increase to Admission Target, Bachelor of Science in Engineering programs

---

I attach a recommendation from Dr. Todd Mondor, Deputy Provost (Academic Planning and Programs) to increase the admission target to the Bachelor of Science in Engineering programs.

Under the Admission Targets Policy, the President may approve changes to Admission Targets following consultation and discussion with the applicable unit's dean or director, with Senate and with the Board of Governors, subject to the provisions of the provincial Programs of Study Regulation.

Accordingly, please place this item on the agenda for the December 8, 2021 Senate Executive meeting and the January 12, 2022 Senate Meeting.

Cc: Diane Hiebert-Murphy, Provost and Vice-President (Academic)  
Laurie Schnarr, Vice-Provost (Students)  
Marcia Friesen, Dean, Price Faculty of Engineering  
Jeff Leclerc, University Secretary  
Jeff Adams, Registrar and Executive Director, Enrolment Services  
Cassandra Davidson, Academic Program Specialist



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**Date:** November 19, 2021

**To:** Dr. Michael Benarroch, President and Vice-Chancellor

**From:** Dr. Todd Mondor, Deputy Provost (Academic Planning and Programs)

**Re:** Request for Increase to Admission Target, Bachelor of Science in Engineering programs

---

Under the Admission Targets Policy and Procedure and at the request of the Price Faculty of Engineering, I am requesting that you consider an increase to the admission target in the Bachelor of Science in Engineering programs – including Biosystems Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering – from 364 seats to 482 seats per year.

As detailed in the attached proposal, the Faculty is requesting an increase of 100 new seats plus the consolidation of 18 seats from existing admission categories. The request for the additional seats is predicated on meeting external demand for engineering graduates within the province. If approved, the seat increase would be phased in over a period of three years and will be resourced primarily through tuition revenue generated from the additional seats and annual spending allocations from the endowment from Dr. Gerry Price and Family announced in March 2020.

I have reviewed and am supportive of the Faculty's request. Given the impact that the proposed change may have on the university community, I am pleased to see that the Faculty has started consultation with impacted units and would strongly encourage these conversations continue so that any plans for change are identified and ready for implementation, should the proposal be approved.

As you are aware, the Admissions Targets Policy and Procedure provides the President with the authority to approve changes to admission targets to a program following consultation with the Dean/Director, Senate, and the Board of Governors.

Please provide your advice concerning this matter to the Office of the University Secretary by Wednesday, November 24<sup>th</sup>, 2021 so that, if supported, the request may receive timely consideration by Senate and the Board of Governors.

**Cc.:** Dr. Diane Hiebert-Murphy, Provost and Vice-President (Academic)  
Ms. Laurie Schnarr, Vice-Provost (Students)  
Dr. Marcia Friesen, Dean, Price Faculty of Engineering  
Mr. Jeff Leclerc, University Secretary  
Mr. Jeff Adams, Director, Enrolment Services  
Ms. Cassandra Davidson, Academic Programs Specialist





University  
of Manitoba

Price Faculty of Engineering

Office of the Dean  
E2-290 EITC  
75A Chancellors Circle  
Winnipeg, Manitoba  
Canada R3T 5V6  
T: 204 474 9809  
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October 25, 2021

Dr. Todd Mondor  
Deputy Provost (Academic Planning and Programs)  
University of Manitoba  
Winnipeg, MB R3T 2N2

by email: [Todd.Mondor@UManitoba.ca](mailto:Todd.Mondor@UManitoba.ca)

***Re: Proposal for an Enrolment Increase in the Price Faculty of Engineering***

Dear Dr. Mondor,

Attached please find a submission from the Price Faculty of Engineering for an increase to the undergraduate student enrolment of nominally 25%. The proposal includes the form submission, statements of support from Faculties on campus who are impacted by this proposal, as well as members of the engineering practice community. I particularly appreciate the conversations with staff in your office through spring and summer 2021 to provide input into the proposal.

As the Province's only professional engineering school, the Price Faculty of Engineering has a mandate to be accessible to Manitobans who wish to study engineering and to meet the needs of industry and the practice community. The Price Faculty of Engineering is the only engineering school in Manitoba offering accredited undergraduate engineering degrees, the basic requirement for professional registration with Engineers Geoscientists Manitoba which in turn confers right-to-title and right-to-practice.

The number of engineers in Manitoba, per capita, is significantly lower than the national average at 2.5 engineers per 1000 individuals, where the national average is 4.6 engineers per 1000 individuals. Current enrolment in engineering programs in Manitoba is also below the national average at 0.12% of population vs. the national average of 0.21% of population. Historically, a lack of space has contributed to this low participation rate, and when students leave to other Provinces to study engineering, we know that the likelihood of them returning to Manitoba after graduation is uncertain. Labour market projections point to a need for engineers to address economic expansion and retirements. Engineers Canada's forecast is for more than 100,000 engineering job openings in Canada between now and 2025 as engineers retire and the economy continues to grow. The Province of Manitoba's *Skills, Talent and Knowledge Strategy*, published in 2021, also highlights the need for more students accessing and completing post-secondary education. Within this, the Province's strategy emphasizes alignment of

[umanitoba.ca/engineering](http://umanitoba.ca/engineering)



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education with labour market needs and the development of the talent within under-represented groups including Indigenous Canadians, newcomers to Manitoba, and international students.

The attached proposal responds to this context and these drivers. In addition to proposing a 25% increase to our undergraduate student body to be phased in over three years, an enrolment increase will be coupled with a strategic emphasis within the Price Faculty of Engineering on re-envisioning outreach & recruitment to challenge historical stereotypes of who belongs in the engineering profession, and with increasing our program options/streams/specializations and building more non-degree options (micro-credentials) into the curriculum and extra-curriculum to support the diverse motivations of prospective students.

The engineering profession provides a sustainable foundation for the economic and social life of a community, a city, a province, and a country. Whether it is through durable infrastructure, food security, transitions in the energy economy, communication and healthcare technologies, and so much more, the engineering profession exists to serve our communities. We envision an expanded Price Faculty of Engineering as a place where students can nurture whatever motivation brought them to UM and the diversity of eventual career pathways they can envision.

I look forward to working with UM on bringing this proposal to fruition. Please do not hesitate to reach out to me at [Marcia.Friesen@UManitoba.ca](mailto:Marcia.Friesen@UManitoba.ca) or 204-474-9806 for discussion.

Sincerely,


Marcia Friesen, Ph.D., P.Eng.  
Dean, Price Faculty of Engineering

**SIGNIFICANT MODIFICATION TO A PROGRAM OF STUDY**

Under The Advanced Education Administration Act

Universities and colleges requesting approval for a **significant modification** to a program of study from Education and Training must apply using this application form. This form reflects the requirements set out in the Programs of Study Regulation (MR 134/2015) under The Advanced Education Administration Act.

**UM INTERNAL REQUIREMENTS**

- 
1. Please complete the application below and submit one (1) electronic copy (.pdf format) each to the Vice-Provost (Integrated Planning & Academic Programs) and the Office of the University Secretary, (where indicated) along with the following supplemental documentation:
    - a. A cover letter justifying and summarizing the rationale behind the request for a significant modification.
    - b. Letters of support from internal and/or external stakeholders that were consulted as part of this proposal, if applicable.
  2. Note that internal approval of the proposed modification will vary depending on the type of modification (see SECTION C). Please work with the Provost's Office and the Office of the University Secretary in advance, in identifying the appropriate procedures and approval processes. In general, please note the following for each type of modification:
    - a. **CHANGE OF SITE** – may require Senate approval if the site requires modifications to admission and/or program requirements (e.g. new admission category).
    - b. **CHANGE TO SEAT CAPACITY** – please refer to the Admission Targets Policy and Procedures ([http://umanitoba.ca/admin/governance/governing\\_documents/academic/admission\\_targets.html](http://umanitoba.ca/admin/governance/governing_documents/academic/admission_targets.html)). Changes may also require Senate approval if there are modifications to admission and/or program requirements.
    - c. **CHANGE TO TIME-TO-COMPLETION** – any addition to or reduction of hours to program requirements, requires Senate approval. For undergraduate programs, please refer to SCCCC Guidelines found at - <http://umanitoba.ca/admin/governance/forms/index.html>. For graduate programs, please contact FGS for approval process.
    - d. **CHANGE TO APPROVED DELIVERY MODEL** – please notify the Provost's Office of any significant changes to course or program delivery method.
    - e. **CHANGE TO STATUS OF JOINT PROGRAM** – depending on the significance of the changes resulting from the proposal, this will either require Senate approval as a program modification or will require the introduction of a new program. Please contact the Provost's Office with more details on how becoming a joint program or ceasing a joint program will impact the program.
    - f. **CHANGE TO CREDENTIAL**
    - g. **CHANGES TO CAPITAL OR OPERATING RESOURCES REQUIRED** -
  3. Please direct questions to Cassandra Davidson, Academic Programs Specialist, Office of the Provost and Vice-President (Academic) at [Cassandra.Davidson@umanitoba.ca](mailto:Cassandra.Davidson@umanitoba.ca) or 204.474.7847.

**SECTION A – PROPOSAL DETAILS**

Institution: **The University of Manitoba**

Applicable faculties/department with responsibility for the program: **Price Faculty of Engineering**

If program is a joint program, list all participating institutions and the roles of each in delivering the proposed program:  
**N/A**

Program name: **Biosystems Engineering; Civil Engineering; Computer Engineering; Electrical Engineering; Mechanical Engineering**

Credential awarded: **B.Sc. Biosystems Engineering, B.Sc. Civil Engineering; B.Sc. Computer Engineering; B.Sc. Electrical Engineering; B.Sc. Mechanical Engineering**

*Office Use Only*

Funding request: **None**

One-time funding: _____
On-going funding: _____

Proposed start date: **2023-09-01**

List any critical issues that may impact the start date of the program: **Delay in program approval; new faculty hiring.**

Institutional Program Code(s) (PSIS reporting number):

## SECTION B – PROGRAM DESCRIPTION AND DELIVERY

**B-1 Provide a general description of the significantly modified program and its objectives:** *(Include intended purpose, curriculum design, and highlight distinctive attributes)*

The five undergraduate B.Sc. programs in the Price Faculty of Engineering are four-year professional degree programs. They prepare students for professional engineering practice and serve as eligibility for the first stage of professional licensure with Engineers Geoscientists Manitoba. Admission to the Price Faculty of Engineering is competitive. Students complete a common Preliminary Year. The Preliminary Year can be completed within the Faculty as a Direct Entry student; however, the Preliminary Year does not need to be completed within the Faculty. Students who satisfy the eligibility requirements while enrolled in other programs (mostly commonly but not limited to University 1) or at other institutions are eligible to apply. Upon completion of the common Preliminary Year, students apply for entry into one of the five programs in the second year of their four-year program. Senate-approved admission capacities are set for program entry in the second year.

The B.Sc. programs and curriculum are not changing. **The Price Faculty of Engineering is seeking to have its undergraduate admission target increased from 364 to 482 by a consolidation of 18 seats in existing admission categories and the addition of 100 new (additional) seats.** The additional seats reflect an ongoing need for additional engineering graduates across Manitoba sectors and industries, and ongoing demand by students for entry into UM engineering degree programs.

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**B-2 Describe how this program serves and advances the academic, cultural, social and economic needs and interests of students and the province:**

As the Province's only professional engineering school, the Price Faculty of Engineering has a mandate to be accessible to Manitobans who wish to study engineering, and also to meet the needs of local industry. The Price Faculty of Engineering is the only engineering school in Manitoba offering accredited undergraduate engineering degrees, where an accredited degree is the basic eligibility requirement for professional registration with Engineers Geoscientists Manitoba which in turn confers right-to-title and right-to-practice. Engineers Geoscientists Manitoba data indicate that between 80-90% of Price Faculty of Engineering graduates begin their careers in Manitoba (looking at the translation rate from UM graduates to new Engineering Intern registration). Industry sectors likewise have consistently expressed their need for UM graduates in all sectors of the provincial economy and across all engineering disciplines. When students apply to the Price Faculty of Engineering and cannot be accepted due to lack of space, they have no other options to study professional engineering in Manitoba and must move to another province for studies. It is well-known that after four or more years away for post-secondary education, a return to one's home province is uncertain. The objective of the proposed enrolment increase is to provide space for all eligible Manitobans who wish to study engineering and to meet the demands of Manitoba industry for engineers.

The number of engineers in Manitoba, per capita, is significantly lower than the national average. The 2019 Engineers Canada Membership report shows that Canada has approximately 300,000 registered professional engineers. Nationally, this translates to 4.6 engineers per 1000 individuals, whereas in Manitoba, there are 2.5 engineers per 1000 individuals. Only PEI and NWT/Nunavut have lower numbers (1.9 and 2.1, respectively), and the highest numbers are in Ontario (5.3) and Alberta (8.9).

Current enrolment in engineering programs in Manitoba is also below the national average. Statistics Canada 2018 data show the post-secondary participation rates in Manitoba for University education to be 2.9% (% of population), while

the Canadian average is 3.1%. This indicates that Manitobans are attending university in the same proportion as the national average. However, the same dataset shows that University participation rate in Engineering and Architecture is 0.16% in Manitoba, while the Canadian average is 0.28%. Excluding Architecture programs, Engineers Canada 2018 enrolment data still confirm that Manitobans are enrolling in engineering programs at a lower rate than the national average: 0.12% of population vs. the national average of 0.21% of population. Historically, a lack of space has contributed to this low participation rate.

Labour market projections point to a need for engineers to address economic expansion and retirements. Engineers Canada's forecast is for more than 100,000 engineering job openings in Canada between now and 2025 as engineers retire and the economy continues to grow. Currently, the overall number of new entrants into the labour market from Canadian engineering programs cannot meet the demand on its own. Immigration is seen as a key to addressing ongoing labour market needs, as well as increased participation of underrepresented groups in engineering, such as women and Indigenous Canadians.

In a 2015 report by Engineers Canada, labour market projections for engineers of all disciplines through 2025 were summarized. The executive summary notes that the report

...serves to highlight the continued importance of engineers to the Canadian economy. There is a large and growing need to replace retiring engineers. This is particularly relevant for civil, mechanical, electrical/electronic and computer engineers. Moreover, inter-provincial mobility, inclusion of diverse engineers and immigration will be paramount in filling the positions left by retiring engineers. This report also highlights the critical role of Canadian universities in training tomorrow's Engineers. Universities are granting an increasing number of engineering degrees to Canadian and international students, creating new entrants to meet growing supply requirements. Engineers Canada stresses the importance inter-provincial migration as economic activity shifts to western Canada, which will generate strong demand for engineers. The introduction of internationally educated engineers will be of even greater importance as economic growth and retirement creates tight labour markets in various engineering fields across Canada.

Similarly, the federal government though its Job Prospects report by occupation shows Manitoba prospects to be fair to strong across mechanical, civil, electrical and electronics, software engineers, and biomedical engineers. In all cases, the majority of growth is expected to come from economic expansion and retirements. Likewise, sector groups highlight that engineering in Canada maintains a constant demand for engineers in almost every industry and sector. The Province of Manitoba's Skills, Talent and Knowledge Strategy, published in 2021, also highlights the need for more students accessing and completing post-secondary education. Within this, the Province's strategy emphasizes alignment of education with labour market needs and the development of the talent within under-represented groups including Indigenous Canadians, newcomers to Manitoba, and international students.

**Sources:**

- Engineers Canada, [2019 National Membership Information](#)
- Statistics Canada. [Table 37-10-0018-01 Postsecondary enrolments, by registration status, institution type, status of student in Canada and gender](#), DOI: <https://doi.org/10.25318/3710001801-eng>
- Engineers Canada, [2019 Canadian Engineers for Tomorrow Report](#)
- Engineers Canada, 2015, [Engineering Labour Market in Canada: Projections to 2025](#)
- [Government of Canada Job Bank – Trend Analysis](#)
- PHM Search, November 2020, [The most in-demand engineering jobs in Canada](#)
- Ranstad, 2019, [Where are the biggest skills gaps in Canadian engineering?](#)
- Province of Manitoba, 2021, [Manitoba's Skills, Talent, and Knowledge Strategy](#)

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**B-3 Describe the existing and anticipated post-secondary learning needs of students in Manitoba that this program addresses and responds to:**

This is an existing program. An increase in enrolment responds to the need for graduate engineers due to economic growth and increasing retirements in the engineering profession. See also B-2.

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**B-4 Will the program be available for part-time study?**

Yes, as per current regulations in the UM Academic Calendar.

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**B-5 Is there a cooperative education, work placement, internship or practicum component?**

Yes, eligible students can participate in the Co-op / Industrial Internship Program (Co-op/IIP) in the Price Faculty of Engineering. Presently, approximately 550 students/year complete a Co-op/Internship term.

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**SECTION C – MODIFICATION TYP**

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**C-2 Change to seat capacity**

C-2.1 - List originally approved or currently offered seat capacity and proposed seat capacity.

*UM Internal Note:* seat capacity as defined by your admission target. If you are not aware of the target, please contact Enrolment Services.

**The current undergraduate admission target for the Price Faculty of Engineering is 364** across all five undergraduate engineering programs. In addition, the Faculty has approval to accept an additional 18 students under two admission pathways termed “Supernumerary”. These are 8 spaces for Engineering Access Program (ENGAP) students entering programs, and 10 spaces for UCSIC students (international agreement) students entering programs. **The proposed seat capacity is 482.** This is derived by folding the existing 18 Supernumerary seats into the regular admissions and adding 100 new seats. Appendix A provides details on the internal distribution of the 100 additional seats within the Departments of the Price Faculty of Engineering.

C-2.2 - Provide rationale for this change. (Examples include changes in applications, enrolment and employer demand or alignment with the institution's strategic direction and priorities.)

UM Internal Note: please ensure to address the following in your response:

- Student demand for places – identify how the current admission levels and the proposed changes compare to the number of qualified applicants to the program.
- Demand for graduates – identify how the current admission levels and the proposed changes reflect market demand for graduates.
- Outline any economic, demographic and/or geographical shifts in the student population that may impact on, or be impacted by, the proposed change.
- Student success – comment on success of current students (progression, time-to-completion, etc.) and graduates of the program (where known).

The external demand for engineering graduates is outlined in section B-2. Internally, Enrollment statistics over the five years from 2017 to 2021 provided by the UM Office of the Registrar and Enrolment Services highlight the following demand for engineering programs in the Price Faculty of Engineering.

The fall 2020 and fall 2021 data show that in these years, the applicant demand and seat availability in Preliminary Year and into second-year Programs were closely matched. However, these are both considered outlier years due to the impacts of the COVID-19 pandemic on prospective students' decision-making. For example, data from the UM Office of Institutional Analysis show an increase of 3.1% in the undergraduate engineering student body (head-count) from fall 2019 (pre-pandemic) to fall 2020 (first year impacted by the pandemic) but a corresponding 3.0% decrease in credit hours offered. One interpretation is that while more students were choosing to go into post-secondary studies during the pandemic, they were taking fewer courses than they otherwise would. Anecdotally, this corresponds to what students' feedback has been during the pandemic.

For Direct Entry enrolment into Preliminary Year, the published criterion for high school entry grades prior to 2021 was a minimum 85% average across three specified courses. In reality, the cut-off has ranged from 85% - 87% for domestic applicants and from 90% - 95% for international students (2017 through 2019). Of note, the fall 2021 intake is the first year in which the admission criterion has changed to a minimum 80% average across four specified courses. Also, from 2017-2019, the ratio of eligible Direct Entry students into Preliminary Year to the seat availability ranged from 108% to 115% (domestic) and 100% - 228% (international).

In addition to Preliminary Year as a competitive entry point, entry into second-year programs is the second competitive progression point for engineering students. The following table highlights the average GPAs of entrants into their first-choice program, for each of the five departments. The GPAs demonstrate that there are students in good standing who were not able to access their first-choice programs due to space limitations.



**2017-2021 Enrollment Data**

<b>Engineering Program</b>	<b>Average GPA cut-off for entry into second year programs</b>		<b>Average first-choice program demand as a % of program capacity</b>
	<b>Domestic Students</b>	<b>International Students</b>	
Biosystems	2.73	3.08	80%
Civil	2.80	3.79	128%
Computer	2.75	3.63	99%
Electrical	2.74	3.64	126%
Mechanical	2.95	3.90	124%
Faculty average	2.79	3.61	111%

c-2.3 - Intake Information

c-2.3 (a) - What is the projected enrolment for the first intake?

We propose a phased implementation over three years:

- Fall 2023: 30-35 additional students into second-year programs, for a total intake of 394-399;
- Fall 2024: 70-75 additional students into second-year programs, for a total intake of 434-439;
- Fall 2025: 118 additional students into second-year programs, for a total intake of 482.
- Nominally, the first full increase of the planned enrolment strategy graduates in spring 2028.

C-2.3 (b) - What is the maximum seat capacity (defined as first-year enrolment capacity)?

482 Students into second-year programs (as capacity in the Price Faculty of Engineering is benchmarked to second-year program entry).

C-2.3 (c) - What is the anticipated date of maturity?

The full increase into second-year programs occurs in fall 2025. The first graduates from the expansion are expected in spring 2028.

**C-2.4 UM Requirement:** Address the impact of the proposed change on access to post-secondary education of under-represented groups. Identify any particular demographic experiencing special difficulties either in gaining admission to, or completing the requirements of, the program.

This proposal is expected to enhance the ability of all prospective students to obtain admission to Engineering at UM, including under-represented groups. The Price Faculty of Engineering already demonstrates an established commitment from which it will build, including the success of the ENGAP Program for Indigenous students, the WISE KidNetic K-12 outreach program, and the IEEQ Program for newcomers to Canada. This proposal is built upon coupling an enrollment increase (more students) with a comprehensive outreach and recruitment strategy that accomplishes further diversity in the applicant pool. The outreach and recruitment strategy will be broadly focussed on ensuring all prospective students who may not have seen themselves in the profession previously see the variety and diversity of meaningful opportunities and career pathways in an engineering education and career. This includes three general areas:

- Creating opportunities for students to pursue their diverse career goals through more program minors/options/streams/specializations and/or non-degree credentials within and between Departments and Faculties. (Note: no new programs are expected which would require Province of Manitoba approval).
  - Outreach and recruitment to prospective students from high schools, continuing our focus on female-identifying, Indigenous, and international students, but also changing the image of the profession to capture the interest of anyone who may not have envisioned it as an option for themselves in the past.
  - Enhancing our existing and developing new transfer and exchange agreements with other post-secondaries in Manitoba and internationally.
-

**D-1 Describe how this significant modification aligns with the strategic plans of your institution:**

This proposal will allow more Manitoban students to pursue an undergraduate engineering degree in the Price Faculty of Engineering, in alignment with the following priorities in the UM *Taking our Place Strategic Plan 2015-2020*.

*Maintain and sufficiently support an appropriate range of liberal arts, science and professional programs for Manitoba's research university in the context of stable or diminishing resources.* The Price Faculty of Engineering is the Province's only engineering school offering accredited undergraduate engineering programs.

*Optimize enrolment with an appropriate mix of undergraduate, graduate, Indigenous, and international students for Manitoba's research university.* This proposal for a capacity increase is being internally designed as an opportunity to enhance the diversity of our student body. It will be coupled with outreach and recruitment strategies that show all prospective students the range and diversity of opportunities and pathways not only in engineering studies, but also in engineering careers. This will include a focus on Indigenous students and female students, and for the former will collectively support the strategic priority of *Creating Pathways to Indigenous achievement*. Additionally, the outreach efforts will focus on solidifying our existing agreements with and creating new pathways with other post-secondary institutions toward the objectives of accessibility and inclusion in our programs. In this way, the proposal also enhances the goal to *enhance student mobility*.

*Provide students with flexible learning opportunities using a variety of delivery modes that make the best use of available classroom and online learning technologies and resources.* There will be positive residuals of the pandemic. These include an insight into courses that can be adapted to ongoing Distance Education offerings (alongside face to face offerings), as well as numerous successful experiments with take-home laboratory kits that increase opportunities for enrolment while offering a strong teaching & learning experience.

*Increase opportunities for experiential learning.* The Price Faculty of Engineering has an established Co-op/ Industrial Internship Program (Co-op/IIP), in which approximately 1/3 of the student body currently participate (approximately 550 placements/year). The proposal for enrolment increase is designed to support enhanced participation in Co-op/IIP beyond a proportionate increase due to enrolment. This is in the context of examining our recruitment and outreach efforts to ensure that our programs offer experiences that are meaningful and desirable to a wide variety of diverse students and their respectively diverse interests and goals. Further, the Price Faculty of Engineering offers a variety of co- and extra-curricular experiential learning activities such as national and international design competitions in all engineering disciplines including collaborations with business and humanities competitions, and over 1/3 of our undergraduate students currently participate on a team each year.

*Make the University of Manitoba the institution of first choice for potential students, staff and faculty.* This proposal is an explicit effort to meet the unmet demand, both domestically and internationally, for an engineering education at the University of Manitoba both into the Preliminary Year and into students' first-choice second-year programs. It also adds faculty and staff positions to the Price Faculty of Engineering, allowing departments to strategically support areas of excellence – and important recruitment and retention factor. This in turn collectively supports the strategic priority of *Driving Discovery and Insight*.

*Establish, strengthen and support meaningful connections between the University community and key stakeholders.* This proposal is responsive to the need for graduate engineers across Manitoba's economic sectors and engineering disciplines. The Price Faculty of Engineering has very strong engagement with and support from Manitoba's engineering practice community, and the support for this proposal has likewise been unreserved.

**D-2 Outline the internal approval process (i.e. committees, governing bodies) for approving this significant modification within your institution and indicate any dates of decision.** (*Governing Council, Board of Governors, Board of Regents, Senate, other*)

This proposal was endorsed at the Engineering Faculty Council on September 7, 2021.

Decision-Making body: *Senate (consultation only)*

Decision:

Date:

Decision-Making body: *Board of Governors (consultation only)*

Decision:

Date:

Decision-Making body: *President*

Decision:

Date:

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**D-3 Responsibility to consult**

D-3.1 If this program subject to mandatory review or approval by organizations external to the institution (*such as regulatory bodies, Apprenticeship Manitoba, etc.*), please describe any consultation processes and provide copies of reports or letter from these organizations providing support:

The five undergraduate B.Sc. programs in the Price Faculty of Engineering are accredited by the Canadian Engineering Accreditation Board (CEAB). However, CEAB does not expect consultation for enrolment increases.

D-3.2 What agencies, groups, or institutions have been consulted regarding the significant modification of this program?

*UM Internal Note:* the unit is to consult with other academic units to identify how the proposed changes might affect quality, access to, and resources associated with the programs offered by that unit, as well as impact on service teaching by supporting faculties/schools. Outline the consultation process with other units and append letters of support, as appropriate.

In the development of the proposal, consultations were held with the Deputy Provost's office, Enrolment Services, Registrar's Office, Faculties of Science, Arts, Agricultural and Food Sciences, Earth Environment & Resources, and Asper School of Business.

Letters of support are attached from the following:

Internally:

- Faculty of Science
- Faculty of Arts
- Asper School of Business
- Faculty of Agricultural & Food Sciences
- Faculty of Earth Environment & Resources
- University 1
- Information Services & Technology (IST)
- Office of the Registrar & Enrolment Services
- Libraries
- Physical Plant (Caretaking Services)
- Security Services
- International College of Manitoba

Externally:

- Engineers Geoscientists Manitoba (the regulatory body for professional engineering in Manitoba)
- Friends of Engineering (representing over 70 senior executives of engineering industry in Manitoba)
- Manitoba Aerospace
- Canadian Manufacturers & Exporters (CME)
- Association of Consulting Engineering Companies – Manitoba (ACEC-MB)
- Vehicle Technology Centre (VTC)
- New Flyer Industries group of companies
- MacDon Industries

D-3.3 How have students and faculty been informed of the intent to modify this program?

The proposal was discussed at a meeting of the Price Faculty of Engineering (staff, faculty, and student executive) on August 10, 2021. It was further discussed at length at Engineering Faculty Council on September 7, 2021. It was discussed with the University of Manitoba Engineering Society (student council) Executive on July 28, 2021. It was received positively at all of these instances.

**D-4 List any similar programs offered in Manitoba:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

The University of Manitoba is the only post-secondary institution in the Province which offers accredited undergraduate engineering degree programs. Graduation from a University of Manitoba undergraduate engineering program confers eligibility for the first stage of professional licensure with Engineers Geoscientists Manitoba.

RRC Polytech offers engineering technology programs, which leads to eligibility for registration with The Certified Technicians & Technologists Association of Manitoba (CTTAM). This is an allied but distinct credential and career path. The University of Winnipeg used to offer an Engineering Pre-Professional Program toward a dual degree with the University of Minnesota. This program has been discontinued.

D-4.1 Describe any specific laddering, articulation and/or credit transfer options for Manitoban students that are anticipated to change as a result of the significant modification of this program:

The Price Faculty of Engineering and RRC Polytech currently have agreements for transfer credit for RRC Polytech engineering technology graduates who wish to pursue an engineering degree at UM. This proposal aligns with plans to develop a formal articulation agreement with RRC Polytech.

From 2014 through 2020, the Price Faculty of Engineering welcomed 75 transfer students from five other Manitoba post-secondary institutions, with the most number transferring from RRC Polytech. We identify this as an under-explored opportunity, and the outreach and recruitment efforts that underpin this proposal are focussed broadly on ensuring all prospective students who may not have seen themselves in the profession previously see the variety and diversity of meaningful opportunities and career pathways in an engineering education and career. As part of this, we will pursue a more formal Articulation Agreement with RRC Polytech to augment the current transfer credit agreements, and will pursue developing new laddered pathways with other Manitoba post-secondaries, particularly Brandon University and University College of the North (UCN) as a way to build remote and rural students' confidence and comfort with university studies on an urban campus.

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**D-5 List any similar programs offered in Canada:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

There are engineering programs at all U15 universities in Canada. The Price Faculty of Engineering is currently the only engineering school with accredited undergraduate degree programs in Manitoba.

D-5.1 Describe any specific laddering, articulation and/or credit transfer options for Manitoban students that are anticipated to change as a result of the significant modification of this program.

See D-4.1

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**D-6 Describe any changes in labour market demands in Manitoba for graduates of this Program as a result of this significant modification:**

*(Provide such information as probable employment destinations or further educational opportunities available to graduates of this*

*new program of study. Attach any formal reports such as those from Associations, Statistics Canada, Sector Councils, Industry or Regulators.)*

The enrolment increase is not expected to change the labour market opportunities in Manitoba for graduates. Please see section B-1 for commentary on the need for additional engineers in Manitoba and Canada due to economic growth and pending retirements.

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**D-7 If copies of any internal or peer evaluations with respect to the significant modification of this program of study are being provided with this proposal, please indicated how any issues identified by these evaluations have been addressed and attach any relevant documents as available:**

Not applicable.

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**D-8 Does this significant modification entail an increase to tuition, or the establishment of or increase to fees that apply to students in this program of study?**

*UM Internal Note:* Comment on potential impact on student access to and affordability of education that may result from the change.

No tuition increase or new fees / increased fees are anticipated, outside of the potential for the normal annual increases considered and approved by the UM Board of Governors and the Province as part of the annual tuition review and approval process.

## **SECTION E – REQUIRED RESOURCES AND FINANCIAL IMPLICATIONS**

**E-1 If one-time or pilot funding is being requested to support the significant modification of this program of study, please identify the amount of funding being requested:**

None.

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**E-2 If ongoing funding is being requested to support the significant modification of this program of study, please identify the amount of funding being requested:**

None.

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**E-3 If new funding is not being requested, how will the significant modifications to the program be funded?** *(Include such information as: where reallocated funding will come from, and the implications of reallocating that funding on other programs/activities of the institution.)*

Incremental costs associated with the additional student intake will be covered in two ways:

1. Tuition revenue generated from the additional 100 students, expected to generate approximately \$2M/year at maturity.

- Annual spending allocations available from the \$20M gift (endowment) from Dr. Gerry Price & Family announced in March 2020. As of FY22/23, approximately \$440K is available for spending. At maturity (anticipated to be 2025 according to the donor's accelerated pledge schedule), the gift is expected to generate approximately \$900K - \$1M/year in perpetuity.

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#### **E-4 What are the resource implications to the institution in delivering the significantly modified program of study?**

*(Include such information as; budget, IT, library, laboratory, computer, space, practicum liability insurance, student services, etc)*

*UM Internal Note: Identify how the proposed changes will impact on the quality of operations at both the unit level and institutional level (including impact on other affected units), where applicable. Comment on how units delivering service teaching in the program will be impacted by the proposed change.*

**Budget:** Incremental costs associated with the expected increase in enrolment will be covered by the additional tuition revenues generated and by the annual spending allocation associated with the gift (endowment) from Dr. Gerry Price & Family.

**IT:** In addition to institutional IST services, the Price Faculty of Engineering has internal IT staff and infrastructure including student computing labs, undergraduate teaching labs, and research computing. Additional resources will be added to student computing labs and undergraduate teaching labs (infrastructure and staff) as needed. The experience of remote teaching during the pandemic has already resulted in an investment in the student computing labs to ensure viable 24/7 remote access to specialized software packages as well as purchase and distribution of additional student licenses of key software.

**Physical Space:** With a nominal increase of 25% in the undergraduate student body, we will see some classes increasing their enrolment in each section, as well as the need to add new sections to some courses. As such, we will see increased demand for classroom spaces, study spaces, computer labs, washrooms, etc. Scheduling of additional/new sections of courses will be flexible, utilizing the full 8:30am – 5:30pm timetable (as is currently done) as well as evenings where required, in order to distribute the demand for physical space. There are already a number of courses that utilize the timetable between 5:30-9:30pm on weekdays, and these slots would be anticipated to see increased activity. Early consultation began in spring 2021 with the Registrar's Office to identify space available for this proposed plan. As per the Registrar's Office letter of support attached to this proposal confirms their recognition of scheduling implications and support for the proposal.

**Demands on Other University Services:** There will be additional demands on the Registrar's Office, Enrolment Services, Engineering Library, Information Services & Technology, Building Caretaking, and Campus Security due to the enrolment increase. See statements of support attached.

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#### **E-5 Please describe new and existing staffing resources needed to provide this significantly modified program of**

**stud:***(Include reallocation of existing faculty, hiring of new faculty, administrative and support services and any other considerations.)*

*UM Internal Note: Identify how the proposed changes will impact on the quality of instruction at both the unit level and institutional level (including impact on other affected units), where applicable. Comment on how units delivering service teaching in the program will be impacted by the proposed change.*

**Class Sizes and Course Sections:** The primary resource implication of the enrolment increase will be the need for larger class sizes in most classes and for additional course sections in some classes. Class sizes are determined both by classroom space capacities as well as considerations and decisions made within the Faculty for the student learning experience. The need for additional sections will require additional teaching faculty.



**Teaching Faculty:** The Price Faculty of Engineering will hire seven additional tenure-track faculty, with a focus on Instructor-rank faculty members. In the Price Faculty of Engineering, the teaching workload guidelines approved by Faculty Council nominally assign two undergraduate and one graduate course to each Professor-rank faculty member, and five undergraduate courses to each Instructor-rank faculty member. Sessional instructors will also be used to staff additional teaching needs, keeping in mind the Canadian Engineering Accreditation Board requirements for the ratio of permanent to sessional faculty, and the requirement for professional registration (P.Eng.) for individuals teaching design courses. The annual spending allocation of the \$20M Price gift (endowment), estimated at \$900K - \$1M/year at maturity, will be allocated to the cost of new faculty hires.

**Demands on Price Faculty of Engineering Programs/Services:** Undergraduate students in the Price Faculty of Engineering are served by the Undergraduate Student Advisors in the Student Services Office (for Preliminary Year students) and within the four Departments (for students in programs). An additional full-time advisor will be added to the Student Services Office and to each of the four Departments. Similarly, teaching labs are serviced by technical staff, and additional technical staff hires will occur to address 'pinch points'. The increased tuition revenue, estimated at \$2M/year at maturity, will be used to cover the cost of new administrative and technical staff.

Currently, about 30% of Price Faculty of Engineering undergraduate students participate in **the Co-op / Industrial Internship Program (Co-op/IIP)**. Assuming the same proportion of Co-op/IIP participation in the additional students would add approximately 30 students for placement into co-op or internship positions. Having to place an additional 30 students in co-op positions is not an onerous task; however the Price Faculty of Engineering will ensure that the Co-op/IIP is appropriate staffed for student demand and Faculty vision for workplace experiential learning.

**Demands on other Faculties:** The Price Faculty of Engineering relies on other Faculties to teach courses in the Preliminary Year and within all of the five undergraduate programs across four Departments. See Appendix B for a summary. The increase in enrolment has been discussed with all impacted Faculties, and letters of support are attached (Appendix C).

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**E-6 Please describe the effect of the significant modification of this program on existing capital infrastructure and equipment:**

*UM Internal Note:* Identify how the proposed changes will impact on the *quality of operations* at both the unit level and institutional level (including impact on other affected units), where applicable. Comment on how units delivering service teaching in the program will be impacted by the proposed change.

Please see E-4.

**SECTION F – SIGNATURES**

*(A second signature section is provided for joint programs only)*

**SUBMITTED BY:**

**President:**

Name:

Signature:

Date: Click here to enter a date.

**Vice-President/Academic:**

Name:

Signature:

Date: Click here to enter a date.

*For use by joint programs only:*

**President:**

Name:

Signature:

Date: Click here to enter a date.

**Vice-President/Academic:**

Name:

Signature:

Date: Click here to enter a date.

**SUBMIT COMPLETED FORM**

Once completed and signed, please submit this application form to Post-Secondary Education and Labour Market Outcomes at PSE-LMO@gov.mb.ca with the following attachments *(double-click to engage check box):*

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Cover letter  |
| <input type="checkbox"/> | Program of Study Financial Form   |
| <input type="checkbox"/> | Any supporting documentation <i>(reviews, letters of support, etc.)</i> |

**If you have any questions or require further information, please contact:**

Post-Secondary Education and Labour Market Outcomes  
Manitoba Education and Training  
400-800 Portage Avenue Winnipeg MB R3C 0C4  
(204) 945-1833  
PSE-LMO@gov.mb.ca

**APPENDIX A: ENROLLMENT DISTRIBUTION BY PROGRAM**

The current undergraduate admission target for the Price Faculty of Engineering is 364 across all five undergraduate engineering programs, allocated as follows: 48 in Biosystems Engineering; 76 in Civil Engineering; 120 in Electrical & Computer Engineering; 120 in Mechanical Engineering. In addition, the Faculty has approval to accept an additional 18 students under two admission pathways termed “Supernumerary”. These are 8 spaces for Engineering Access Program (ENGAP) students entering programs, and 10 spaces for UCSIC students (international agreement) students entering programs.

The proposed seat capacity is 482. This is derived by folding the existing 18 Supernumerary seats into the regular admissions and adding 100 new seats.

Further, the proposal is to allocate new seats to the five programs proportionately using a range of seats to each of the five programs, while continually ensuring that the combined annual intake across all five programs is 482. The proposal to allocate a range of seats to each of the five programs will allow the Price Faculty of Engineering to better meet students’ first-choice requests for programs and will allow flexibility as demand for and capacity within programs changes from year to year.

**Enrollment at maturity**

	<b>BIOE</b>	<b>CIVIL</b>	<b>ELEC &amp; COMP</b>	<b>MECH</b>	<b>Super-numerary</b>	<b>Total</b>
Entry into programs: <b>Current capacity</b>	48	76	120	120	18	364
Entry into programs: <b>Proposed capacity range</b> (varies year by year)	+ 8 to 14 or 56 to 62 total	+ 18 to 24 or 94 to 100 total	+ 30 to 36 or 150 to 156 total	+ 30 to 36 or 150 to 156 total	(folded into regular admissions shown)	482

**APPENDIX B: COURSES BY OTHER FACULTIES TO ENGINEERING PROGRAMS**

<b>Preliminary Year (Direct Entry &amp; U1)</b> <a href="https://umanitoba.ca/engineering/programs-of-study">https://umanitoba.ca/engineering/programs-of-study</a>	
<b>CHEM 1100</b>	NEW: CHEM 1100 + CHEM 1122 = CHEM 1300. Students coming from U1 and Science or any other non-engineering faculty will be given credit for CHEM 1300 for the NEW CHEM 1120.
<b>CHEM 1122</b>	
<b>COMP 1012</b>	
<b>MATH 1210</b>	MATH 1300 is not an acceptable equivalent to MATH 1210
<b>MATH 1510</b>	Students intending to obtain a degree in Engineering are strongly advised to complete MATH 1510 and MATH 1710. However, MATH 1500 or MATH 1230 may be taken in lieu of MATH 1510; MATH 1700 or MATH 1232 may be taken in lieu of MATH 1710. MATH 1690 fulfills the requirement of both MATH 1510 and MATH 1710.
<b>MATH 1710</b>	
<b>PHYS 1050</b>	
<b>ENG 1430</b>	
<b>ENG 1440</b>	
<b>ENG 1450</b>	
<b>ENG 1460</b>	
<b>PHIL 1290* or another complementary studies electives from Arts or Asper</b>	PHIL 1290 Critical Thinking is the recommended complementary studies elective. <b>Students may, however, select any course from the Faculties of Arts and Management (Asper School of Business) at the 1000 level or above, except for ARTS 1110 (Introduction to University).</b>
<b>Typically from ARTS</b>	Course selected from the list of <b>approved Written English Courses</b> ; 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.

<b>Departmental Programs</b>	<b>BIOE</b>	<b>CIVIL</b>	<b>ELECTRICAL</b>	<b>COMPUTER</b>	<b>MECH.</b>	<b>Current</b>	<b>+25%</b>
CHEM 1310 or CHEM 1110/1126	48	76			120	244	305
COMP 1020				60		60	75
COMP 2140				60		60	75
COMP 3430				60		60	75
MATH 2130	48	76	60	60	120	364	455
MATH 2132	48	76	60	60	120	364	455
MATH 3120				60		60	75
MATH 3132			60	60	120	240	300
MBIO 1220	48					48	60
PHYS 1070					120	120	150
PHYS 2152			60	60		120	150
STAT 2220	48	76	60	60	120	364	455
GEOL 1340		76				76	95
ANTH 2430 (option with ENG 30)	48		60	60		168	210
Comp.St. from Arts ("I" Indigenous course)	48	76			120	244	305
Comp.St. from Arts or Asper	48		60	60		168	210
<b>For Specializations available as options in BIOE:</b>							
BIOL 1410	48					<48	<60
BIOL 1412	48					<48	<60
AGEC 2370	48					<48	<60
ANSC 3570	48					<48	<60
PLNT 2510	48					<48	<60
SOIL 4060	48					<48	<60

**APPENDIX C: LETTERS OF SUPPORT**



STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION  
SCCCC Fall 2021/Spring 2022

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

---

**SECTION A – UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

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**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

- Written English                       Mathematics                       RIC List

Indicate the SCCC deadline your unit will meet:  Fall 2021                       Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

---

**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

Science is expected to see a proportionate increase in enrollment demand in courses (see Proposal - Appendix A) in Preliminary Year (U1 and Direct Entry) and in program-specific required courses as noted.

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**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

---

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCC.



**STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED**  
**SCCCC Fall 2021/Spring 2022**

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*. The completed form (Part B) is to be returned to the unit requesting support.

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**SECTION F –UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

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**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: Science

Department or Program: Choose one

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**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

As the Price Faculty of Engineering is only proposing increasing enrolment in their programs, there are no issues of altered prerequisites for courses or curricular overlap, simply an increase in enrolment in several Faculty of Science courses (see section I for specific details). To assess the impact there have been close consultations between the two Faculties to get an accurate estimate of the increases and a comprehensive financial analysis of the impact on the Faculty of Science. Overall, the Faculty of Science is supportive of the increased enrolment proposed by the Price Faculty of Engineering.

**Financial Impact:** We have consulted with each Department in Science, and we estimate that based on additional new sections of courses required the equivalent of 10 additional sessional instructors would be required. Additional TA requirements for increased capacity in lab courses is also required. Our analysis has indicated that given the increased tuition revenue generated because of increased enrolment the Faculty of Science will be able to offset these increased costs. A direct agreement with the Price Faculty of Engineering has also been negotiated (10-15k per year) to support additional TAs for Engineering students in Mathematics courses above the typical TA:student ratio for Science students.

**Capacity Impact:** Independent of the financial impact, The Faculty of Science is more concerned with the physical ability to deliver additional sections, both in terms of increased demand on laboratory space and difficulty finding qualified sessional instructors/new Faculty hires in some courses that are oversubscribed even prior to the Engineering proposal. We are confident that we will be able to find solutions with individual Departments to address these issues and are working with the Price Faculty of Engineering to accurately determine the required reserves needed by Engineering in our courses. We continue positive discussions with the Price Faculty of Engineering about removing these reserve restrictions as early as possible in the registration period so that Science students can take advantage of spots not needed by Engineering.

*See next page.*

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**SECTION I – IMPACT ON COURSE(S)/PROGRAM(S) IN UNIT RESPONDING AND ACTION REQUIRED**

- List courses/programs in your unit that would be impacted by the proposed course/curriculum changes.
- Describe the impact on your courses/programs and respond, in particular, to the reason for the request for support indicated on the preceding page, in Section B – Reason for Request for Support
- Indicate when your unit will submit corresponding changes to the SCCCC (e.g. Fall 2021 or Spring 2022). In most cases, this will be the SCCCC deadline indicated on the preceding page, in Section B.

The following courses are impacted in terms of capacity only (expected increases in capacity based on 5-year enrolment averages are listed in parentheses): BIOL 1410 (12), BIOL 1412 (12), BIOL 2300 (12), CHEM 1100 (62), CHEM 1110 (62), CHEM 1122 (62), CHEM 1126 (62), COMP 1012 (73), COMP 1020 (15), COMP 2140 (15), COMP 3430 (15), MATH 1210 (68), MATH 1510 (40), MATH 1710 (30), MATH 2130 (91), MATH 2132 (91), MATH 3120 (15), MATH 3132 (60), MBIO 1220 or MBIO 1010 (12), PHYS 1070 (30), PHYS 2152 (30), STAT 2220 (91).

As mentioned in section H, the only impact is in terms of capacity and the financial impact on the Faculty of Science. We have carefully considered these factors and should be able to accommodate the increased enrolment. As there are no changes to course prerequisites no future submission to SCCCC is required from the Faculty of Science.

---

**SECTION J – SIGNATURES**

Department Approval: \_\_\_\_\_  
Type Name Signature Date

Faculty/College/School Approval:  
Sean McKenna Sean McKenna Digitally signed by Sean McKenna  
Date: 2021.10.13 11:18:02 -05'00' October 13, 2021  
Type Name Signature Date





**STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION**  
**SCCCC Fall 2021/Spring 2022**

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

**SECTION A –UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

- Written English                       Mathematics                       RIC List

Indicate the SCCCC deadline your unit will meet:  Fall 2021                       Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

Arts is expected to see a proportion increase in enrollment demand in ANTH 2430, courses used to fulfill "W" and "I" requirements, and courses used to fulfill complementary studies electives (see Proposal - Appendix A).

**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCCC.



STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED  
SCCCC Fall 2021/Spring 2022

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the [Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes](#). The completed form (Part B) is to be returned to the unit requesting support.

---

**SECTION F –UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

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**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: Arts [Faculty of]

Department or Program: Choose one

---

**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

The curricular changes being proposed have the support of the Faculty of Arts, though we do need to register with Senate and its Committees a few important consequences for our Faculty and for the broader resource and integrative planning decisions that affect Faculty budgets as a result of such curricular changes.

The demand for courses that expose Engineering students to important Indigenous knowledge, concepts and teachings can be met by Arts, but we will need to prioritize teaching allocations and resources to those 'I' classes, to meet the service teaching demand, possibly at the cost of program specific needs in our own units. Courses that Engineering has determined suitable for the Written English requirement are largely offered by the Faculty of Arts, but a review of and expansion of list might be warranted. Retaining the recommended choice status for PHIL 1290 as the complementary elective is appreciated.

The additional demand for ANTH 2430 will require specific allocation of resources to that single course. We will continue to work with the Department and the Price Faculty on suitable options.

*See next page.*

---

**SECTION I – IMPACT ON COURSE(S)/PROGRAM(S) IN UNIT RESPONDING AND ACTION REQUIRED**

- List courses/programs in your unit that would be impacted by the proposed course/curriculum changes.
- Describe the impact on your courses/programs and respond, in particular, to the reason for the request for support indicated on the preceding page, in Section B – Reason for Request for Support
- **Indicate when your unit will submit corresponding changes to the SCCCC (e.g. Fall 2021 or Spring 2022). In most cases, this will be the SCCCC deadline indicated on the preceding page, in Section B.**

For the attention of SCCC and SPPC: we request that henceforth, major program changes that either increase or decrease demand for courses or credit hours beyond the requesting unit be required to conduct an assessment of likely budgetary impacts for the external units and that a new document indicating the impacts be added to the file. The budget model we now employ is directly dependent upon course enrollments both for in-program students, but also, significantly, for the Faculty of Arts, for the massive service teaching we supply.

Please see the attachment to this form.

---

**SECTION J – SIGNATURES**

Department Approval: \_\_\_\_\_  
Type Name Signature Date

Faculty/College/School Approval:  
Jeff Taylor \_\_\_\_\_ Jeffery Taylor \_\_\_\_\_ 20 Sep 2021 \_\_\_\_\_  
Type Name Signature Date

Digitally signed by Jeffery Taylor  
DN: cn=Jeffery Taylor, o, ou,  
email=jeff.taylor@umanitoba.ca,  
c=CA  
Date: 2021.09.20 13:34:10 -0600

## **Appendix to Request for Support Document**

### **Section I—Impact on Programs and Courses in Unit Responding and Action Required**

RE: Price Faculty of Engineering Enrollment Increase Proposal

20 September, 2021

With regard to the Engineering proposal, should some or all of the new students come from outside the pool of students we are already drawing on, then there are likely to be instructional costs for the Faculty of Arts that exceed the revenue provided in the current budget model, and these additional costs would need to be covered from the funds available to fund the expansion of enrolment. Furthermore, if the 100 are drawn from students that are otherwise enrolled in the University, having just missed the cut-off for admission to Engineering under the previous limit, then other Faculties will lose out. Calculated at the lowest rate (Arts), this would result in \$339k of grant and tuition revenue disappearing from the bottom lines of all other Faculties' budgets, with no clear understanding of how changes to subvention might ease that pain.

Finally, there is an integrated research-funding dimension too. Adding new academic staff to teach Engineering courses likely means adding faculty researchers to Engineering (as it would be unlikely for the new Engineering staff to be teaching-stream Instructors only) and this will dilute the share other Faculties receive from the research portion of the formula.

Solutions to these issues need to be developed in concert with major course or program changes under the current budget model.

Jeff Taylor, Dean of Arts



STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION  
SCCCC Fall 2021/Spring 2022

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

---

**SECTION A – UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

---

**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

Written English

Mathematics

RIC List

Indicate the SCCC deadline your unit will meet:  Fall 2021

Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

---

**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

Asper is expected to see a proportionate increase in enrollment in courses used for complementary studies electives (see Proposal - Appendix A) and in the Management minor. The exact courses are difficult to predict.

---

**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

---

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCC.



**STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED**  
**SCCCC Fall 2021/Spring 2022**

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*. The completed form (Part B) is to be returned to the unit requesting support.

---

**SECTION F – UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

---

**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: Management

Department or Program: Management, Faculty of (06)

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**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

The impact of the Price Faculty of Engineering's enrollment increase on Asper is not expected to be significant. The Asper School supports the Price Faculty's proposal.

*See next page.*

---

**SECTION I – IMPACT ON COURSE(S)/PROGRAM(S) IN UNIT RESPONDING AND ACTION REQUIRED**

- List courses/programs in your unit that would be impacted by the proposed course/curriculum changes.
- Describe the impact on your courses/programs and respond, in particular, to the reason for the request for support indicated on the preceding page, in Section B – Reason for Request for Support
- **Indicate when your unit will submit corresponding changes to the SCCC (e.g. Fall 2021 or Spring 2022). In most cases, this will be the SCCC deadline indicated on the preceding page, in Section B.**

No significant impact is expected. The Management Minor has been poorly subscribed to by Engineering students. The increase in demand on other Asper courses is not expected to be focused on specific courses. Any such demand increase can be handled by the Asper School.

---

**SECTION J – SIGNATURES**

Department Approval: \_\_\_\_\_  
Type Name Signature Date

Faculty/College/School Approval: \_\_\_\_\_  
Type Name Signature Date

Gady Jacoby  
Digitally signed by Gady Jacoby  
Date: 2021.08.20 18:26:44 -05'00'



**STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION**  
**SCCCC Fall 2021/Spring 2022**

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

**SECTION A – UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

- Written English                       Mathematics                       RIC List

Indicate the SCCC deadline your unit will meet:  Fall 2021                       Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

FAFS is expected to see a proportionate increase in enrollment demand in courses (see Proposal - Appendix A) in for available specializations in Biosystems Engineering, up to 12 additional students per year.

**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCC.





**STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED**  
**SCCC Fall 2021/Spring 2022**

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the [Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes](#). The completed form (Part B) is to be returned to the unit requesting support.

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**SECTION F –UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

---

**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: Agricultural and Food Sciences

Department or Program: Choose one

---

**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

The Faculty of Agricultural & Food Sciences (FAFS) is highly supportive of the increase in the number of graduating engineers in the province. The Department of Biosystems Engineering, which is an academic unit within FAFS, serves and provides skilled engineers to many agri-food, environmental, structural, and biomedical industry sectors in the province. An increased number of graduating biosystems engineers who can help grow these industries will therefore address skills gap in the Highly Qualified Personnel workforce.

There will likely be the need for additional resources in FAFS as a result of the expansion of student numbers in the Price Faculty of Engineering. Additional sections of courses taught by Biosystems Engineering faculty members may require consideration of Instructor hiring; additional demands on laboratories and additional TA/GM support. Additionally, a larger student body will lead to resource needs for effective undergraduate student administration. The Department teaches a first-year course (ENG 1430) that is a required course for all engineering students. Increased enrollment in the Price Faculty of Engineering will have the biggest impact on the resource requirements to staff who support this course. Downstream impact will be in all BIOE courses as class sizes will increase.

*See next page.*

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**SECTION I – IMPACT ON COURSE(S)/PROGRAM(S) IN UNIT RESPONDING AND ACTION REQUIRED**

- List courses/programs in your unit that would be impacted by the proposed course/curriculum changes.
- Describe the impact on your courses/programs and respond, in particular, to the reason for the request for support indicated on the preceding page, in Section B – Reason for Request for Support
- **Indicate when your unit will submit corresponding changes to the SCCCC (e.g. Fall 2021 or Spring 2022). In most cases, this will be the SCCCC deadline indicated on the preceding page, in Section B.**

The course ENG 1430 and Biosystems Engineering program in general will see increased enrollment. There will not be any impact on the content of ENG 1430 or the Biosystems Engineering program requirements.

---

**SECTION J – SIGNATURES**

Department Approval: Jitendra Paliwal      Jitendra Paliwal      Digitally signed by Jitendra Paliwal  
Date: 2021.10.14 13:09:10 -05'00'      October, 14, 2021  
Type Name      Signature      Date

Faculty/College/School Approval: MG Scanlon      martin Scanlon      Digitally signed by martin Scanlon  
Date: 2021.10.18 12:49:00 -05'00'      October 18, 2021  
Type Name      Signature      Date



**STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION**  
**SCCCC Fall 2021/Spring 2022**

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

---

**SECTION A – UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

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**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

- Written English                       Mathematics                       RIC List

Indicate the SCCC deadline your unit will meet:  Fall 2021                       Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

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**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

Environment, Earth & Resources is expected to see a proportionate increase in enrollment demand in GEOL 1340, a required course in Civil Engineering (average of 19 additional students per year).

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**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

---

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCC.



**STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED**  
**SCCCC Fall 2021/Spring 2022**

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*. The completed form (Part B) is to be returned to the unit requesting support.

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**SECTION F –UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

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**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: Environment, Earth, and Resources

Department or Program: Earth Sciences (007)

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**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

The proposed increase will have no impact on curricula. The Dept of Earth Sciences supports the initiative

*See next page.*





**STATEMENT OF SUPPORT: PART A – REQUEST FOR ACTION**  
**SCCCC Fall 2021/Spring 2022**

Complete Sections A through D of this form. Send a copy, together with Part B and any additional supporting documentation, to unit(s) from which you are seeking a statement of support. The completed form (Sections A through E) is to be submitted to SCCC along with Statements of Support (Part B) received. See the *Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes*.

**SECTION A – UNIT REQUESTING STATEMENT OF SUPPORT**

Faculty/College/School: Engineering

Department or Program: Engineering, Faculty of (03)

**SECTION B – REASON FOR REQUEST FOR SUPPORT**

- possible curricular overlap or infringement or conflict of jurisdiction with another unit(s)
- possible curriculum/course changes in another unit(s) arising from proposed curriculum/course change in your unit
- possible impact on demand (increased or decreased) for a specific course(s) in another unit(s)
- other (Please elaborate below, in Section C.)

Request for assessment of course intended to satisfy:

- Written English                       Mathematics                       RIC List

Indicate the SCCC deadline your unit will meet:  Fall 2021                       Spring 2022

Indicate date on which request for support – Part A sent to other unit(s):

Request that a response be provided by the date indicated:

**SECTION C – DESCRIPTION OF PROPOSED CURRICULUM/COURSE CHANGE**

Briefly describe the proposed curriculum/course change in your unit and outline the request for support. Be as specific as possible, including with respect to the potential impact on courses/curricula in the other unit(s).

The Price Faculty of Engineering is proposing to increase its admission target from 364 to 482 by a consolidation of 18 seats in existing supernumerary admission categories and the addition of 100 new (additional) seats, benchmarked to entry into an engineering program in year 2 of a nominal 4-yr degree. The proposal allocates new seats to the 5 programs proportionately with a small degree of flexibility between programs. Implementation is proposed over 3 years: Fall/23: 30-35 additional students into year 2; Fall/24: 70-75 additional students into year 2; Fall/25: 118 additional students into year 2.

It is possible that U1 will see an increase in enrollment from students completing Preliminary Year courses through U1, with the intention on to apply to Engineering (Preliminary Year courses outlined in the Proposal - Appendix A).

**SECTION D – UNIT(S) RECEIVING REQUEST FOR STATEMENT OF SUPPORT**

List the faculties/colleges/schools/departments solicited for a statement of support.

U1, Faculty of Science, Faculty of Arts, Asper School of Business, Faculty of Agricultural & Food Sciences, Environment Earth & Resources.

**SECTION E – STATEMENT(S) OF SUPPORT RECEIVED**

Attach responses received from other units to your faculty/college/school submission to SCCC.



**STATEMENT OF SUPPORT: PART B – RESPONSE & ACTION REQUIRED**  
**SCCC Fall 2021/Spring 2022**

Section F is to be completed by the unit requesting a statement of support. Sections G through J are to be completed by the unit responding to the request. See the [Guidelines for Completion of Undergraduate/Certificate Course and Curriculum Changes](#). The completed form (Part B) is to be returned to the unit requesting support.

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**SECTION F –UNIT REQUESTING SUPPORT**

Faculty/College/School: Engineering  
Department or Program: Engineering, Faculty of (03)

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**SECTION G – UNIT RESPONDING TO REQUEST**

Faculty/College/School: University 1  
Department or Program: Choose one

---

**SECTION H – RESPONSE TO REQUEST**

Identify any impacts on course/curricula in your unit. Indicate whether and why your unit supports the curriculum/course change or outline any specific concerns the proposing unit and SCCC should be aware of.

We are in support of Price Faculty of Engineering increasing their admission targets. First Year Centre (home of U1) is well equipped to support students who are targeting a specific academic programs as well as those who are undecided or are exploring.

Additionally, we are pleased to see increases for ENGAP as well as spots for international students.

*See next page.*

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**SECTION I – IMPACT ON COURSE(S)/PROGRAM(S) IN UNIT RESPONDING AND ACTION REQUIRED**

- List courses/programs in your unit that would be impacted by the proposed course/curriculum changes.
- Describe the impact on your courses/programs and respond, in particular, to the reason for the request for support indicated on the preceding page, in Section B – Reason for Request for Support
- Indicate when your unit will submit corresponding changes to the SCCCC (e.g. Fall 2021 or Spring 2022). In most cases, this will be the SCCCC deadline indicated on the preceding page, in Section B.

---

**SECTION J – SIGNATURES**

Department Approval: \_\_\_\_\_  
Type Name Signature Date

Faculty/College/School Approval:  
Brandy Usick Brandy Usick Digitally signed by Brandy Usick Date: 2021.09.06 15:21:31 -05'00'  
Type Name Signature Date





## Information Services And Technology

Mario Lebar, CIO  
Office 107C  
Administration Building  
Winnipeg, Manitoba  
Canada R3T 2N2  
Tel: (204) 474-8668

August 26, 2021

The University of Manitoba Information Services and Technology  
Statement of Support

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Faculty: Price Faculty of Engineering

### INCREASE IN UNDERGRADUATE ADMISSION

Price Faculty of Engineering is proposing a 25% increase in the Engineering Undergraduate program: increasing from 364 students to 482 students across the five undergraduate programs.

Information Services and Technology can support this increase, as it was described in the documents provided and as described by the requesting area.

It is not expected that this proposed increase will affect Information Services and Technology's ability to continue to provide services such as:

- Service Desk first point of contact for request fulfillment and incident resolution for faculty and students,
- Endpoint Service & Support for the faculty's computers and devices,
- classroom audio visual support for faculty,
- access to university wide applications,
- application maintenance and,
- core infrastructure services such as email, communications infrastructure and network services,

Continued support of these services by Information Services and Technology is not expected to cause unusual or intolerable stress on IST's technical infrastructure or resources as a result of the increase.

Mario Lebar  
Chief Information Officer

Date:

Mario  
Lebar

Digitally signed by Mario Lebar  
Date: 2021.08.30 14:16:07 -05'00'



**University  
of Manitoba**

Office of the Registrar and  
Enrolment Services

400 University Centre  
Winnipeg, Manitoba  
Canada R3T 2N2  
T: 204-474-8820  
F: 204-474-7554

TO: Dr. Marcia Friesen, Dean, Price Faculty of Engineering

FROM: Jeff Adams, University Registrar and Executive Director, Enrolment Services

DATE: September 3, 2021

**SUBJECT: Admission target increase**

---

I am in full support of the Price Faculty of Engineering's proposed admission target increase. This change will be viewed in an extremely positive manner by prospective students, locally and internationally. Our Student Recruitment Officers frequently provide me with feedback indicating that significant demand for the program exists; increasing the number of students admitted to the program will help us attract more very qualified students to the University of Manitoba.

The increase in available seats could result in an increased number of applicants and I can confirm that this increase in workload can be accommodated by the Admissions Office.

From a scheduling perspective, the proposal acknowledges the need to continue to utilize the full timetable, including scheduling numerous sections outside of prime time, to accommodate larger and in some instances new sections. Given this, I have no concerns from a scheduling perspective.

The Office of the Registrar and Enrolment Services looks forward to working with the Faculty in implementing this increase.

CC: Laurie Schnarr, Vice-Provost (Students)  
Erin Stone, Deputy Registrar and Director of Admissions  
Gayle Gordon, Associate Registrar and Director of Systems  
Sharon Bannatyne, Associate Registrar and Director of Technology and Support

**University of Manitoba Libraries**  
**Statement for Program Modification**

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**Faculty** Price Faculty of Engineering  
**Program** Proposed Increase in Enrollment

The Libraries' collection can support this program, as it was described in the documents provided.

Many of the Libraries' electronic resources, including ebooks and ejournals, allow unlimited access and will therefore be able to accommodate an increased enrollment. However, some of the electronic resources and books not available electronically do have limited access. It is recommended that faculty consult with the engineering librarian to determine the access available to resources before assigning them to a class.

It is not expected that this proposed change will affect the Libraries' ability to continue to provide services such as research and teaching support, reference assistance, document delivery. It is recommended that faculty keep the engineering liaison librarian informed of any assignments that would require library resources and any new areas of research so that they can see if adequate resources exist or add new resources, create subject guides, and help pages in advance.

It is not expected that this change will affect the technical infrastructure which allows the discovery and delivery of the Libraries' resources and services.

Marie Speare  
Acting Head, Sciences Division  
Engineering Liaison Librarian

*Kristen Kruse*

---

Kristen Kruse  
Coordinator, Collections Management

*LH per Lisa O'Hara*

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Lisa Hanson O'Hara  
Vice Provost (Libraries) & University Librarian

August 13, 2021

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Date



**University  
of Manitoba**

Operations & Maintenance,  
Physical Plant

89 Freedman Crescent  
Winnipeg, Manitoba  
Canada, R3T 2N2  
Phone: (204) 474-6344

**Date:** September 7, 2021

**To:** Dean Marcia Friesen, Faculty of Engineering

**From:** Stephen Cumpsty, Director, Operations and Maintenance

**Subject:** Enrollment increase in Engineering

Operations & Maintenance has assigned 11 daytime caretaking staff and 2 evening caretaking staff, with no dedicate night or weekend support. This level of support will continue in the foreseeable future and is consistent with the level of support across campus.

The facilities assigned to Engineering are maintained in accordance with other facilities across campus and work will continue to be prioritized within the available funding level.

Based on our discussion, there is no anticipated increase in caretaking support and maintenance support from the increase in enrollment.

Stephen R. Cumpsty, M.Sc (FP&M), P.Eng  
Director, Operations & Maintenance

Cc: Raman Dhaliwal, Acting AVP (Admin)



UNIVERSITY  
OF MANITOBA

OFFICE OF RISK MANAGEMENT  
&  
SECURITY

MEMORANDUM

423 University Cres  
University of Manitoba  
Winnipeg, Manitoba  
Canada, R3T 2N2

Tel: (204) 474-8709

To: Marcia Friesen, Dean, Faculty of Engineering,  
From: Gord Perrier, Director Campus Security, UMSS  
Date: July 26, 2021  
Re: Undergraduate Admission Capacity, Faculty of Engineering (2023+)

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Marcia,

It is my understanding that the Faculty of Engineering is advancing a proposal to increase its undergraduate admissions capacity over a three-year period beginning in 2023. Security Services has reviewed a general written outline and has no concerns respecting this proposal.

Life safety and security systems are well established at engineering and CCTV specifically is currently undergoing an upgrade. The proposal does not, with the information presented, appear to over-burden any of the systems or capacity limits in terms of evacuation or other emergency possibilities including programs within the *Emergency Notification System (ENS)* or *UM Safe Walk*. Should items be identified as this process unfolds Security Services commits to finding solutions that are workable within the established frameworks and industry guidelines.

We welcome the opportunity to provide our services to a larger university population and we look forward to working with you to advance these possibilities.

Regards,

G.T. (Gord) Perrier  
Mobile: 431-276-0129  
[gordon.perrier@UManitoba.ca](mailto:gordon.perrier@UManitoba.ca)

August 13, 2021

Dr. Marcia Friesen  
Dean, Price Faculty of Engineering

Re: Letter of Support for the Price Faculty of Engineering's Proposed Undergraduate Admission Target Increase

Dear Dr. Friesen:

Please accept this letter as the International College of Manitoba (ICM)'s confirmation of support on the Price Faculty of Engineering's proposed undergraduate admission target increase. As a program welcoming first-year international students from across the globe, we are confident this news will be well received by students who are seeking undergraduate degree options in Canada, particularly those interested in the various engineering disciplines offered at the University of Manitoba (UM).

Since the 2014-2015 academic year, the AGPA for international students has been extremely competitive, hovering around 4.00 and often nearly one full degree point above domestic students. As a result, many international students seek options with other engineering programs in Canada, whether from first year admission or as a transfer student for second year studies. The expansion of seats in the Price Faculty will attract more international students to explore their options with ICM and the UM.

With the [federal government of Canada seeking to increase immigration targets](#) and the [provincial government of Manitoba economic recovery and growth plans](#) to promote Manitoba as an immigration destination of choice, expanding the available seats in this professional program will support our ability to attract skilled and talented people to the province. ICM's latest college alumni survey results demonstrate that most students intend on working in Canada after completing their studies, signaling intent to enter the workforce and contribute to Manitoba's economic growth.

This admission target change would have no perceived negative impact on ICM's operations. The four courses moderated by the Price Faculty of Engineering have not been fully subscribed in past years; therefore, any increase in demand could be accommodated.

We therefore strongly support the Price Faculty of Engineering's proposal to increase admission targets.

Sincerely,



Robert Daudet  
College Director & Principal

P: 204-292-3701  
E: Robert.Daudet@icmanitoba.ca

Dr. Marcia Friesen, PhD, PEng  
Dean, Price Faculty of Engineering  
E2 – 290 Engineering Bldg.  
University of Manitoba  
Winnipeg, MB R3T 5V6

September 22, 2021

Dear Dr. Friesen,

**RE: Increasing Undergraduate Enrollment.**

I am writing to express support for the Price Faculty of Engineering and the initiative to increase undergraduate enrollment. As you know, Engineers Geoscientists Manitoba is the association of professional engineers and geoscientists with the mandate to regulate the practice of professional engineering and professional geoscience in this province. Intrinsic to our mandate, is the understanding of the importance of sustaining the professions for future generations. Educating future engineers is defined in the “end statement” referred to as E-6.

The Association monitors progress on End E-6 which states the following goals:

E-6 Consumers have access to a reasonable supply of practitioner services with the sub-goals:

- 6.1 Engineering and geoscience students enroll as interns.
- 6.2 Students in K to 12 view the professions as rewarding careers.
- 6.3 Post-secondary institutions and government are aware of the future needs of the professions.

Some of the activities which we will undertake in response to any increases in student enrollment include:

- Regulatory policy changes that affect students during their education.
- Inviting undergraduate students to affiliate with EngGeoMB upon entry to the Price Faculty of Engineering.
- Providing support to students through the EngGeoMB Mentoring Centre and the Student Membership Program.
- Financial support to UMES for their extra-curricular activities such as conferences, competitions and social events.
- Tracking of graduates to determine future marketplace demands and timely program changes in collaboration with the Price Faculty of Engineering.

On behalf of Council, I express the commitment by EngGeoMB to support your proposal to the university's administration for increasing undergraduate student enrollment.

Should you have any questions, please contact me at (204) 474-2736 x-234 or **gkoropatnick@enggeomb.ca**

Yours truly,

A handwritten signature in cursive script that reads "Grant Koropatnick".

Grant Koropatnick, PEng, FEC  
CEO & Registrar  
Engineers Geoscientists Manitoba





August 23, 2021

Dean Marcia Friesen, P.Eng, Ph.D.  
University of Manitoba  
E2-290 EITC, Price Faculty of Engineering  
Winnipeg, MB R3T 5V6

Dear Ms. Friesen,

Friends of Engineering is pleased to support the Price Faculty of Engineering's plans for an enrollment increase to its undergraduate engineering programs.

Friends of Engineering is a unique group of leaders from all sectors of engineering industry in Manitoba. Our membership includes firms that employ engineers to design and develop products and provide engineering services that are integral with the economic success of Manitoba. We have a keen interest in helping the Price Faculty of Engineering in its role as educator of Manitoba's next generation of innovators. To that end, our organization supports extra-curricular programs within the faculty that provide students with experiences that will serve them well as they enter the work force. As well, Friends support and host functions that allow employers and students to connect, all in an effort to help students find work in Manitoba, and employers find the engineers they need.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors.

Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, they're not proportionately choosing to study engineering. Notwithstanding that, over 90% of those that do choose to complete their studies in engineering, remain in Manitoba after graduation.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. Finding locally trained engineers is a key component to a successful and engaged workforce. For many employers, having engineers that understand local environments and culture is key to the work they do, while others see the advantages of having an employee that is happy to be in their home province, in a career that they will excel in.

We also appreciate the Price Faculty of Engineering's vision to use the opportunity of an enrollment increase to answer [Manitoba's Skills, Talent, and Knowledge Strategy](#) by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.

In closing, Friends of Engineering and its members are in full support of the Price Faculty of Engineering's plans to increase enrollment, as this will have a direct benefit to many local industries and the economy of Manitoba.

Yours truly,

Tom Malkiewicz, P.Eng., FEC  
Board Chair – Friends of Engineering

**BOARD OF DIRECTORS**

Nick Bevilacqua  
Board Chair, Manitoba Aerospace  
Director - Business Development,  
Lean, Fulfillment & Information  
Technology  
Boeing Canada Winnipeg

Leslie Galbraith  
Treasurer, Manitoba Aerospace  
VP - Finance/Administration  
Argus Industries

Wendell Wiebe  
Secretary, Manitoba Aerospace  
Chief Executive Officer  
Manitoba Aerospace Inc.

Rob Dyas  
Vice President, Aerial Emergency  
Service  
Babcock Canada Marine &  
Technology

Amy May  
General Manager  
Boeing Canada Operations

Daniel Verreault  
Director Canada MSO  
GE Aviation

Mike McCartan  
Maintenance Manager  
KF Aerospace Defence

Ron Drepaul  
Division Manager Aeroengines  
Magellan Aerospace

Martin Petrak  
Chief Executive Officer  
Precision ADM

Brent Ostermann  
Chief Financial Officer &  
Treasurer  
StandardAero Canada

To whom it may concern:

On behalf of Manitoba Aerospace Incorporated, I am pleased to send this letter of support regarding the Price Faculty of Engineering's plans for an enrollment increase of 25% in its undergraduate engineering programs.

Manitoba Aerospace is a not-for-profit and industry-led sector council that works to connect the local aerospace, aviation and defence industries to national and international markets. Manitoba Aerospace also strives to develop a world-class industry and workforce through partnerships with local educational institutions and other key stakeholders. The industry in Manitoba provides a diverse range of aerospace and defence manufactured products and components as well as in-service-supports; maintenance-repair-overall (MRO); innovation; research and development; and educational services. Manitoba is also home to OEM-led, state-of-the-art engine testing, and environmental certification research facilities. The membership of Manitoba Aerospace consists of forty-two companies with over 5,000 highly-skilled employees. Prior to the pandemic, the local sector generated more than \$2.4 Billion in sales.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with graduating strong engineers in all disciplines and serves as a main centre for research with and for Manitoba's key economic sectors. Manitoba Aerospace has a long history of collaboration with the Price Faculty of Engineering that dates back to the mid-1990s between the Faculty, Manitoba Aerospace, Boeing Canada Winnipeg, Magellan Aerospace, and StandardAero. This collaboration has also developed an MOU to establish the Aerospace Engineering Liaison Group (AELG). The agreement established an Aerospace Engineer-in-Residence with the Faculty, and a provision for aerospace curriculum and extra-curriculum activities for students and faculty. These activities have proven fruitful in engaging students with the aerospace sector early and continuously throughout their studies, as well as cultivating a strong aerospace engineering workforce for our sector's needs.


Engineers Canada data concludes that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. Students are choosing to go to college and university in Manitoba, but they are not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba's engineering programs.

Currently, the labour market demand for graduate and under-graduate engineers in Manitoba remains high. In early 2020, Manitoba Aerospace's Labour Market Information (LMI) Study indicated that between 2020 and 2024, the local aerospace industry would require additional Industrial Engineers (49), Aerospace Engineers (28) and Mechanical Engineers (28). The pandemic may have delayed the immediate need for these positions, but the industry has already started to reopen and will need additional under-graduate engineering resources as the sector projects to grow to meet the ever-increasing demand by the general public to travel by air.

Manitoba Aerospace also appreciates the Price Faculty of Engineering's vision to use the opportunity of an enrollment increase to incorporate [Manitoba's Skills, Talent, and Knowledge Strategy](#) by reaching out to groups who may not have previously envisioned themselves in this profession. This includes more outreach to the K-12 system, support for the highly regarded ENGAP for Indigenous students and the IEEQ Program for immigrant engineers. There is also a commitment to continue to explore more structured transfer programs with other post-secondary institutions in Manitoba and international exchange opportunities, as well as increased opportunities for International Students.

We support the Price Faculty of Engineering at the University of Manitoba in this laudable endeavor and look forward to opportunities to continue to work together in the future. Please do not hesitate to contact me should you require any further information on our experiences or perspectives on this very important matter.

Sincerely,



Wendell C. Wiebe M.Ed. B.A.  
CEO  
Manitoba Aerospace Inc.  
(204) 960-3985  
[wwiebe@mbaerospace.ca](mailto:wwiebe@mbaerospace.ca)

August 16, 2021

CME Manitoba greatly supportive of the Price Faculty of Engineering's plans for an enrollment increase of 25% to its undergraduate engineering programs. This is a crucial needed development for manufacturing in Manitoba.

CME is the manufacturing industry association representing the interests and addressing the needs of Manitoba manufacturers including all sub-sectors with the mission of helping them grow. Our team of close to 40 professionals (including several Professional Engineers) directly or through our connections supports firms in areas of productivity improvement (LEAN), advanced manufacturing / technology adoption, innovation, trade / business development, human resource development, and safety, as well as providing strategic executive leadership development. Finally, CME represents manufacturing concerns and opportunities to government, youth, and the community. It has been my privilege to lead this organization in Manitoba for over 15 years after having served as a board chair and member during my time as a Vice President of a large manufacturing enterprise.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors. CME Manitoba's member firms have a long history of collaboration with the Price Faculty of Engineering in this mandate, including co-op work placements for students, member firms as strong sponsors of student initiatives like extra-curricular design teams and student capstone projects, member firms supporting the Engineers-in-Residence (EIR) programs, and other programs.

More importantly, Engineering is of critical importance to manufacturing. Engineers are instrumental in driving product development, innovation, process improvement, and solutions to the many challenges of adding value to a product. They are needed to take advantage of the increasing technology options throughout the business and supply chain. In addition, Engineers are frequently in leadership roles throughout the organization and often in executive positions bringing the critical thinking and problem-solving skills required to the strategic level required to compete in a global marketplace. In Manitoba, we are faced with a shortage of Engineers and our members regularly identify this as a growth constraint for their business. It is a message I carry to the top governmental leaders of this province as well as to educational institutions and youth.

Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, but they're not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba engineering programs.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. Our manufacturing companies consistently identify a shortage of engineers as a limiting factor to growth and profitability with the consequences including lost business, reduced innovation, and in some cases moving production to other regions. The shortage is felt with some variation across all engineering disciplines. In short, this issue of an under supply of Engineering graduates has been detrimental to the growth and success of Manitoba manufacturers and our economy.

CME Manitoba also appreciates the Price Faculty of Engineering vision to use the opportunity of an enrollment increase to answer Manitoba's Skills, Talent, and Knowledge Strategy by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.

Again, CME believes that the capacity to train engineers in Manitoba must be increased significantly and is very supportive of Price Faculty of Engineering's plans to do so. I would be willing to speak to any further need for support.



Ron Koslowsky

Divisional Vice President – Manitoba

ron.koslowsky@cme-mec.ca

Cell – (204) 612-6628



July 28, 2021

Marcia Friesen, P.Eng., Ph.D.  
Professor & Dean, Price Faculty of Engineering  
E2-290 EITC, Price Faculty of Engineering  
University of Manitoba  
Winnipeg, MB Canada R3T 5V6

The Association of Consulting Engineering Companies Manitoba (ACECOMB) is pleased to support the Price Faculty of Engineering's plans for an enrollment increase to its undergraduate engineering programs.

The Association of Consulting Engineering Companies – Manitoba (ACEC-MB), represents the business interest of Consulting Engineering Companies in Manitoba. Our association represents 28 member firms and is the voice of our 1600 plus members. ACEC-MB is an authoritative and trusted voice on how consulting engineering firms contribute to a strong economic, social, and environmental quality of life in Manitoba. Our member firms make valuable contributions to projects at all stages of development, from determining and defining the scope and setting preliminary budgets, through detailed design and construction to commissioning of the completed works.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors. The Price Faculty of Engineering is an Affiliate Member of ACEC-MB and has a long history of collaboration with the Association, including a Mentorship Program run by the ACEC-MB Young Professionals Committee, co-op work placements with our Member Firms, faculty sitting on ACEC-MB Committees and joint sponsorship and attendance and events.

Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, but they're not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba engineering programs.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. ACEC Member firms continue to need graduate engineers to join the labour force both as consulting engineers and as our clients working for many of our clients across the province in sectors of government and private industry. This includes graduate engineers in all disciplines. UM Grads make up many practicing engineers that work in the Consulting Business and we look forward the continuing this great tradition. A such, ACEC Manitoba member firms rely heavily on UM Grads becoming practicing professional engineers to keep our industry strong

Association of Consulting Engineering Companies Manitoba (ACEC-MB)  
PO Box 21036, Winnipeg MB R3R 3R2  
Email: [ed@acec-mb.ca](mailto:ed@acec-mb.ca) Phone: 204.774.5258



ACEC-MB also appreciates the Price Faculty of Engineering vision to use the opportunity of an enrollment increase to answer [Manitoba's Skills, Talent, and Knowledge Strategy](#) by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.

The ACEC-MB Board on behalf of our Member Firms is in full support of these initiatives and strongly supports an enrollment increase to the undergraduate engineering programs.

Thank you.

Mario Scerbo, P.Eng.  
ACEC-MB Board President

August 10, 2021

Marcia Friesen  
Professor & Dean, Price Faculty of Engineering  
University of Manitoba  
Winnipeg, MB  
R3T 5V6

Dear Marcia,

The Vehicle Technology Centre (VTC) is pleased to support the Price Faculty of Engineering's plans for an enrollment increase to its undergraduate engineering programs.

The VTC represents the heavy equipment and vehicle manufacturers in Manitoba. The products our member companies design and manufacture represent 11% of our provincial exports and we employ 11% of Manitoba's direct manufacturing workforce. Since we design and build our product in Manitoba, we require the services of engineers of many disciplines.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors. As an example, the VTC brokered a multi company collaborative research project presently underway with Matt Khoshdarregi in the Engineering robotics lab, investigating the use of robotic technology in a low volume flexible production environment. The knowledge gained in this project will be transformational in the integration of digital manufacturing in low volume flexible production in the future.

Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, but they're not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba engineering programs.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. With our member company's products and processes moving to more digital control, along with impending retirement of many of our engineers, our companies will require the services of new graduates to fill these positions, many with advanced skills in digital control. As a part of this initiative, we would appreciate the U of M considering blended degrees along the lines of Mechatronic programs currently offered in other universities in Canada to assist us in transforming to digitization as it continues to change the way we design and manufacture our products.

We also appreciate the Price Faculty of Engineering vision to use the opportunity of an enrollment increase to answer [Manitoba's Skills, Talent, and Knowledge Strategy](#) by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.



In closing, The VTC supports the U of M Faculty of Engineering's initiative to increase the enrollment in the faculty.

Regards

A handwritten signature in blue ink that reads "Ron Vanderwees".

Ron Vanderwees  
Program Director  
Vehicle Technology Centre

Cc: N. Dudych – Executive Director - VTC



August 13, 2021

Marcia Friesen  
Professor & Dean  
Price Faculty of Engineering  
Winnipeg, MB  
R3T 5V6

Subject: Price Faculty of Engineering's undergraduate program

Ms. Friesen,

NFI Group is pleased to support the Price Faculty of Engineering's plans for an enrollment increase to its undergraduate engineering programs.

New Flyer and Motor Coach Industries (within the NFI Group of companies), both located in Winnipeg, are leaders in the North American transit industry. Leaders in innovation, engineering and manufacturing of heavy duty transit bus and highway coaches with more than 50% market share.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors. Over the years New Flyer and MCI have collaborated heavily with the 'U of M' engineering faculty on several points of common interest; Key Stone design projects, Operational Excellence, Advanced GD&T and Drawing Practices, numerous seminars and various other activities to promote the practice of Engineering are but a few past and present areas of cooperation. I myself have been actively involved with the faculty and have greatly enjoyed and benefitted from the engagement.

Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, but they're not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba engineering programs.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. The NFI Group's largest engineering groups are both located in Manitoba. To continue the R&D and 'productionization' of Battery Electric, Fuels Cell Electric and Automated Driving transit vehicles we need access to a deeper talent pool. Recruitment of talented engineers has been difficult. Hiring skill sets related to Electrical, Software & Controls and Mechatronics have been a significant challenge as we currently face a technology revolution in the transit industry. We are at the point where we may have to hire out of province since the pandemic has shown us that engineers can apparently 'engineer from





home'. We would strongly prefer to hire from within the province since the core of our engineering and manufacturing activity including prototype shops are in province.

We also appreciate the Price Faculty of Engineering vision to use the opportunity of an enrollment increase to answer Manitoba's Skills, Talent, and Knowledge Strategy by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.

Manitoba has a strong, well-diversified engineering and manufacturing community that are very much in need of talented engineers. The university, in my opinion, is first class but it needs the engineering students to continue to make a difference within Manitoba and even Canada.

Sincerely,

**Kirk Burcar, M.Eng., P.Eng.**  
*Vice President, Engineering Services*

NFI Group  
711 Kernaghan Avenue  
Winnipeg, Manitoba  
R2C 3T4





**MacDon Industries Ltd.**

680 Moray Street, Winnipeg, Manitoba, Canada R3J 3S3  
t. (204) 885-5590 f. (204) 832-7749 www.macdon.com

August 23, 2021

Marcia Friesen  
Professor & Dean  
Price Faculty of Engineering  
Winnipeg, MB  
R3T 5V6

Dear Ms. Friesen,

MacDon Industries Ltd. (MacDon) is pleased to support the Price Faculty of Engineering's plans for an enrollment increase to its undergraduate engineering programs.

For over 70 years, MacDon has been a world leader innovating and manufacturing high-quality, high-performance harvesting equipment. MacDon products are distributed and supported worldwide from offices in Canada, the United States, Australia, Russia, Brazil, and Germany.

MacDon's contributions to the MB economy include the employment of more than 1500 employees, 188 of which are Engineers in a variety of roles from our executive to the manufacturing and design organizations. MacDon has 475 active MB vendors who support the manufacturing of our products making up 35% of our annual vendor spend. MacDon equipment is sold around the globe with 10% of our Canadian Sales sold right in Manitoba including an additional 16% of our parts revenue to support that equipment, all of this impacting the Manitoba farm economy.

As Manitoba's only professional engineering school, the Price Faculty of Engineering is tasked with educating strong graduate engineers in all disciplines and serving as a main centre for research in Manitoba, with and for Manitoba's key economic sectors. MacDon has long had a fruitful relationship with the Price Faculty of Engineering. Since 2014 we have hired approximately 25 Engineering students terms of 4, 8 or 12 months to support testing of products in development. Annually, we support the Faculty through sponsorships in the range of \$20K, as well as have participate in Capstone projects and support the various SAE design groups. In 2016, MacDon provided a large donation to the Front and Centre Campaign which was used to establish the MacDon Fluid Power Hydraulics Teaching Laboratory. With the installation of this lab, a technical elective, Fluid Power Systems is now offered and through the Engineer in Residence (EiR) MacDon provides the resource to teach this course. In addition MacDon continues to support the Operations Excellence and Advanced Graphical Communications EiR program courses both monetarily and with the inclusion of students from our technical organization.

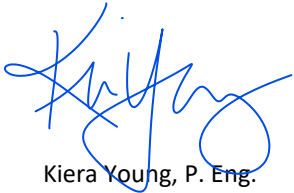
Engineers Canada data show that the per capita enrollment rate in engineering programs in Manitoba is well below the national average, although our post-secondary participation rate is at the national average. While students are choosing to go to college and university in Manitoba, but they're not proportionately choosing to study engineering. Historically, this has been due to a lack of space in University of Manitoba engineering programs.

At the same time, the labour market demand for graduate engineers in Manitoba remains high. MacDon is a product company. The demand for talented, creative and strongly educated engineers in this time of technological advancements requires the foundation of a comprehensive Engineering department, one that continues to assess their program offering and evolves to blended designations such as Mechatronics. This is realized by first increasing entry rates and then supporting their students through the curriculum to graduate grounded engineers with the skills to meet the demands of organizations for today and tomorrow.

We also appreciate the Price Faculty of Engineering vision to use the opportunity of an enrollment increase to answer [Manitoba's Skills, Talent, and Knowledge Strategy](#) by reaching out to groups who may not have previously envisioned themselves in this profession, including more outreach to K-12, support the ENGAP Program for Indigenous students and IEEQ Program for immigrant engineers, and explore more structured transfer programs with other post-secondaries in Manitoba and international exchange opportunities, and increased opportunities for International Students.

To remain competitive in ever increasingly global markets, our university must provide the opportunity to educate as many future engineers as the faculty can accommodate. This enables the businesses of Manitoba, like MacDon and many others, the talent necessary to meet the challenges of the future. Together we grow.

Regards,



Kiera Young, P. Eng.  
Senior Vice President, Customers, Products & Services  
MacDon Industries Ltd.

## **REPORT OF THE SENATE COMMITTEE ON AWARDS**

### **Preamble**

Terms of reference for the Senate Committee on Awards include the following responsibility:

On behalf of Senate, to approve and inform Senate of all new offers and revised offers of awards that comply with the Student Awards Policy.

### **Observations**

At its meeting of October 19, 2021, the Senate Committee on Awards approved 4 new offers and 3 revised offers as set out in the *Report of the Senate Committee on Awards (October 19, 2021)*.

### **Recommendations**

On behalf of Senate, the Senate Committee on Awards recommends that the Board of Governors approve 4 new offers and 3 revised offers as set out in the *Report of the Senate Committee on Awards (October 19, 2021)*. These award decisions comply with the Student Awards Policy.

Respectfully submitted,

Dr Jared Carlberg

Chair, Senate Committee on Awards

## SENATE COMMITTEE ON AWARDS

October 19, 2021

### 1. NEW OFFERS

#### **Darius Maharaj Hunter Memorial Scholarship**

In memory of Darius Maharaj Hunter (JD/'21), family and friends established an endowment fund at the University of Manitoba with an initial gift of \$60,000 in 2021. When funds are available, the Manitoba Scholarship and Bursary Initiative may make a contribution to the award. The purpose of the fund is to reward the academic achievements of undergraduate students enrolled in the Faculty of Law at the University of Manitoba. Each year, beginning in 2022-2023, the available annual income from the fund will be used to offer up to three scholarships of equal value to undergraduate students who:

- (1) are enrolled full-time (minimum 80% course load) in the Juris Doctor Program in the Faculty of Law;
- (2) have achieved a minimum degree grade point average of 3.0; and
- (3) demonstrate leadership either in the community or on campus, and display the personal characteristics associated with the highest standards of the profession.

Candidates will be required to submit: (i) a written statement (maximum 500 words) which outlines how they meet criterion (3), (ii) a current *curriculum vitae*, and (iii) up to two letters of reference.

In years when more than one scholarship will be offered, there must be a minimum of one recipient enrolled in the first year of study in the Juris Doctor Program in the Faculty of Law.

A student may not hold this award more than once.

The selection committee will have the discretion to determine the number and equal value of awards offered each year based on the available funds, as outlined in the criteria above.

The Dean of the Faculty of Law (or designate) will name the selection committee for this award and will include a representative of the donor (or designate).

This agreement may be amended by the mutual consent of the donor (or designate) and the University of Manitoba. All such amendments shall be in writing. In the absence of the donor (or designate), and providing all reasonable efforts have been made to consult, the Board of Governors of the University of Manitoba has the right to modify the terms of this award, if because of changed conditions, it becomes necessary to do so. Such modifications shall confirm as closely as possible to the expressed intention of the donor in establishing the award.

#### **Iwasiw Family Bursary**

Dr. Carroll Iwasiw (B.N./'79) generously established an endowment fund at the University of Manitoba in 2021 with a gift of \$50,000. The purpose of the fund is to provide financial support to students in the College of Nursing in the Rady Faculty of Health Sciences. When funds are available, the Manitoba Scholarship and Bursary Initiative will make a contribution to the award. Each year, beginning in 2021-2022, the available MSBI funds and the available annual income from the fund will be used to offer one bursary to an undergraduate student who:

- (1) is enrolled full-time (minimum 60% course load) in any year of study in the Bachelor of Nursing program in the College of Nursing;
- (2) has achieved a minimum degree grade point average of 2.5; and

(3) has demonstrated financial need on the standard University of Manitoba bursary application form. The Dean of the College of Nursing (or designate) will name the selection committee for this award. This agreement may be amended by the mutual consent of the donor (or designate) and the University of Manitoba. All such amendments shall be in writing. In the absence of the donor (or designate), and providing all reasonable efforts have been made to consult, the Board of Governors of the University of Manitoba has the right to modify the terms of this award if, because of changed conditions, it becomes necessary to do so. Such modification shall conform as closely as possible to the expressed intention of the donor in establishing the award.

### **Roland Grandpré Asper MBA Entrance Scholarship**

In memory of Dean Emeritus Roland Grandpré, the Asper Foundation will make an annual contribution of \$5,000 to the University of Manitoba to offer the Roland Grandpré Asper MBA Entrance Scholarship. The purpose of the scholarship is to reward students entering the Asper MBA program. Each year, beginning in 2021-2022, one scholarship of \$5,000 will be offered to a student who:

- (1) is enrolled as a full or part-time student in the first year of study in the Asper MBA program in the Asper School of Business at the University of Manitoba (Faculty of Graduate Studies); and
- (2) has achieved a minimum admission grade point average of at least 3.50 and a minimum overall GMAT score of 600.

The Vice-Provost (Graduate Education) and Dean of the Faculty of Graduate Studies (or designate) will ask the Asper School of Business Associate Dean, Professional Graduate Programs and Executive Education (or designate) to name the selection committee for this award.

This agreement may be amended by the mutual consent of the donor (or designate) and the University of Manitoba. All such amendments shall be in writing. In the absence of the donor (or designate), and providing all reasonable efforts have been made to consult, the Board of Governors of the University of Manitoba has the right to modify the terms of this award if, because of changed conditions, it becomes necessary to do so. Such modification shall conform as closely as possible to the expressed intention of the donor in establishing the award.

### **Scarth Bursary for Engineering**

Douglas Scarth (B.Sc.[M.E.]/'79), (M.Sc.[M.E.]/'82) and Betty Scarth (B.Comm.[Hons.]/'81), (C.A./1984) and their family established an endowment fund at the University of Manitoba with an initial gift of \$50,000 in 2020. The purpose of the fund is to support undergraduate students pursuing studies in any undergraduate engineering degree program in the Price Faculty of Engineering. Each year, beginning in 2023-2024, the available annual income from the fund will be used to offer one or more bursaries to undergraduate students who:

- (1) are enrolled full-time (minimum 60% course load) in their second, third or fourth year of study in any undergraduate degree program in the Price Faculty of Engineering;
- (2) have achieved a minimum degree grade point average of 2.0; and
- (3) have demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee will have the discretion to determine the number and value of awards offered each year based on the available funds, as outlined in the criteria above.



The selection committee for this bursary will be the Scholarships, Bursaries and Awards Committee of the Price Faculty of Engineering.

This agreement may be amended by the mutual consent of the donor (or designate) and the University of Manitoba. All such amendments shall be in writing. In the absence of the donor (or designate), and providing all reasonable efforts have been made to consult, the Board of Governors of the University of Manitoba has the right to modify the terms of this award if, because of changed conditions, it becomes necessary to do so. Such modification shall conform as closely as possible to the expressed intention of the donor in establishing the award.

## 2. AMENDMENTS

### **Doris Irene Wilton Memorial Scholarship**

The following amendments were made to the terms of reference for the **Doris Irene Wilton Memorial Scholarship**:

- The preamble was revised to:  
*In memory of Mrs. Doris Irene Wilton, her husband, family members, and friends established a scholarship fund at The University of Manitoba in 1987. Each year, the available annual income from the fund will be used to offer one scholarship valued at \$2,000 to a student in the Master of Nursing Program who:*
- The numbered criteria were revised to:
  - (1) *is enrolled full-time or part-time in the Faculty of Graduate Studies, in the Master of Nursing Program offered by the College of Nursing;*
  - (2) *has completed at least 21 credit hours in the Nurse Practitioner stream or, if registered in one of the Administration, Clinical, or Education streams, has completed at least 12 credit hours (thesis option) or 15 credit hours (comprehensive examination option);*
  - (3) *has a minimum GPA of 3.0 on the courses completed as part of their current Master's degree program;*
  - (4) *has demonstrated a high standard of competent care of patients/clients as well as a commitment to community health nursing;*
- The second paragraph was revised to:  
*In any given year that the fund does not generate at least \$2,000, the value of the award will be \$1,000.*

### **Helena May Wake Bursary**

The following amendments were made to the terms of reference for the **Helena May Wake Bursary**:

- The preamble was revised to:  
*Dr. Barbara Wake Carroll established an endowment fund in honour of her mother, Mrs. Helena May Wake with a gift of \$15,000 to the University of Manitoba in 2000. The Manitoba Scholarship and Bursary Initiative made a contribution to this fund. The purpose of this bursary is to support mature students studying at the University of Manitoba. Each year, the available annual income from the fund will be used to offer one or more bursaries to students who:*

- The numbered criteria were revised to:
  - (1) *have been admitted to the University of Manitoba on a mature student status;*
  - (2) *are enrolled full-time (minimum 60% course load) in University 1, Engineering, Music, or the School of Art; and*
  - (3) *have demonstrated financial need on the standard University of Manitoba bursary application form.*
- The following paragraph was added:
 

*The selection committee will have the discretion to determine the number and value of awards offered in each year based on the available funds, as outlined in the criteria above.*
- The selection committee paragraph was revised to:
 

*The Associate Registrar and Director of Financial Aid and Awards will name the selection committee for this award.*
- The standard Board of Governors statement was added.

### **John M. Hawryluk Memorial Scholarship**

The following amendments were made to the terms of reference for the **John M. Hawryluk Memorial Scholarship**:

- The preamble was revised to:
 

*In memory of John M. Hawryluk, his immediate family and the past-president of the Ukrainian Professional and Business Club of Winnipeg, Inc. established an endowment fund at the University of Manitoba in 1982. The purpose of this fund is to recognize the academic achievements of students with an interest in Ukrainian Studies. Each year, beginning in 2021-2022, one award valued at \$3,000 will be offered to an undergraduate student who:*
- The numbered criteria were revised to:
  - (1) *is enrolled full-time (minimum 80% course load) in the second year of study or higher in any faculty, college, or school at the University of Manitoba;*
  - (2) *has achieved a minimum degree grade point average of 3.0; and*
  - (3) *has completed at least six credit hours in Ukrainian Studies with a grade of C or better.*

*In the event that there is no eligible undergraduate candidate, the scholarship may be offered to a graduate student who:*

  - (1) *is enrolled full-time in any Master's or Doctoral program in the Faculty of Graduate Studies at the University of Manitoba;*
  - (2) *has achieved a minimum grade point average of 3.5 based on the last 60 credit hours (or equivalent) of study; and*
  - (3) *has undertaken, or is about to undertake, research in the area of Ukrainian or Ukrainian Canadian Studies.*
- The following sentence was added:
 

*The value of the scholarship may be adjusted in the final year to ensure that the fund is exhausted.*
- The selection committee paragraph was revised to:

*The Dean of the Faculty of Arts (or designate) will ask the head of the Department of German and Slavic Studies to name the selection committee for this award. If the successful candidate is a graduate student, the Vice-Provost (Graduate Education) and Dean of the Faculty of Graduate Studies will name the selection committee for this award.*

- The standard Board of Governors statement was added.

**Preamble:**

1. The terms of reference for the Senate Committee on Appeals (SCAP) are found on the web at:  
[https://www.umanitoba.ca/governance/sites/governance/files/2021-09/Senate Committee on Appeals Terms of Reference.pdf](https://www.umanitoba.ca/governance/sites/governance/files/2021-09/Senate_Committee_on_Appeals_Terms_of_Reference.pdf)
2. The Committee is charged to hear and determine appeals from:
  - a) decisions made by academic administrators involving Senate regulations in which Faculty or School Councils have no jurisdiction; and
  - b) appeals against decisions taken by Awards Selection Committees of Faculties and Schools.
3. The Committee is to report to Senate on the determination of all appeals submitted to it; and advise the Executive Committee of any Senate regulations affecting students which appear to be creating particular difficulties.

**Observations:**

1. The Committee has received seven new appeals since the last report to Senate in April 2021. These cases are summarized, along with the two open files previously reported, without compromising the confidentiality of the Appellant.
  - An appeal was received against a decision by the College of Dentistry. The grounds were failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed and that a Faculty/School/Senate governing document have become inapplicable through lapse in time or was unfairly applied. The appeal was denied.
  - An appeal was received against a decision by the College of Medicine. The grounds were failure of the Faculty/School or Dean/Director to follow procedures, failure of the Faculty/School or Dean/Director to follow the rules of natural justice, failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed, that a Faculty/School/Senate governing document has become inapplicable through lapse of time or was unfairly applied, and failure of Senate, the Faculty/School, or Dean/Director to comply with applicable legislation. The appeal was granted.
  - An appeal was received against a decision by the Faculty of Education. The grounds were failure of the Faculty/School or Dean/Director to follow the rules of natural justice and failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed. The committee determined that there were insufficient grounds to proceed to an appeal hearing.
  - An appeal was received against a decision by the Faculty of Education. The grounds were failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed. The committee determined that there were insufficient grounds to proceed to an appeal hearing.
  - An appeal was received against a decision by the Faculty of Graduate Studies. The grounds were failure of the Faculty/School or Dean/Director to follow the rules of natural justice and failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the

decision being appealed. The appeal was denied.

- An appeal was received against a decision by the Faculty of Social Work. The grounds were failure of the Faculty/School or Dean/Director to follow the rules of natural justice and failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed. The appeal was denied.
- An appeal was received against a decision by the Faculty of Engineering. The grounds were failure of the Faculty/School or Dean/Director to follow procedures, failure of the Faculty/School or Dean/Director to follow the rules of natural justice and failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed. The committee determined that there were insufficient grounds to proceed to an appeal hearing.
- An appeal was received against a decision by the Faculty of Engineering. The grounds were failure of the Faculty/School or Dean/Director to reasonably consider all factors relevant to the decision being appealed. The committee determined that there were insufficient grounds to proceed to an appeal hearing.

Currently the Committee has one open file.

Respectfully submitted,  
Dr. Charlotte Enns, Chair  
Senate Committee on Appeals

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Faculty of Graduate Studies.

### **Observations**

1. The **Faculty of Graduate Studies** Faculty Council has approved a Letter of Participation for a Professional Development Recognition Program in Graduate Education Mentoring (GEM). Per the Senate-approved [Certificate and Diploma Framework](#), FGS submits the proposal to Senate for information.

The Letter of Participation will be geared towards faculty members, advisory committee members and graduate program staff to obtain official recognition for the completion of professional development workshops in the broad areas of Graduate Administration and Graduate Mentoring.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the Letter of Participation from the unit listed below be provided to Senate for information:**

### **Faculty of Graduate Studies**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak



**University  
of Manitoba**

Faculty of Graduate Studies

500 University Centre

Winnipeg, Manitoba

Canada R3T 2N2

Telephone: (204) 474-7986

**Proposal to Create Letter of Participation Professional Development Recognition Program  
in Graduate Education Mentoring (GEM)**

With the aim of supporting professional development for faculty members, advisory committee members and graduate program staff, the Faculty of Graduate Studies (FGS) would like to propose the creation of a recognition program for those who attend a certain number of our workshops. This idea came out of the Graduate Student Experience Committee (GSEC) where FGS reported to members on the workshops that were currently being offered and the suggestion was put forward to recognize attendance in a certain number of workshops. GSEC approved this proposed recognition program at their September 17<sup>th</sup>, 2021 meeting. According to the non-degree taxonomy recently approved by Senate in February 2021, this recognition program would be a letter of participation as participation/attendance is the focus, not evaluation. FGS Faculty Council will report this program to Senate for information and the list of those who achieve letters of participation will be reported to FGS Faculty Council each year.

Professional development workshops will be offered in two broad areas: Graduate Administration and Graduate Mentoring. Participants would be required to complete four workshops to be given a letter of participation. Recipients will receive the attached recognition upon completion.

There are several benefits to this program:

- (1) It promotes the idea that professional development is important to all those working with our graduate students.
- (2) It recognizes those who have made the effort to attend and develop their skills in support of our students.
- (3) Faculty members can add this onto their CV as one way to demonstrate their commitment to the development of HQP.

We have several offerings that have been or will be offered. Starting in 2022, participants will be able to gather the required number of workshops to receive a letter of participation. We will offer different levels of letters of participation for every 4 workshops attended. There is no expectation that these workshops are completed in the same calendar year. So for instance, after the first 4 completed, participants would receive a GEM Letter of Participation Level 1. After the next 4 completed, they could receive a GEM Letter of Participation Level 2 and so on.



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November 25, 2021

**TO:** J. Leclerc, University Secretary

**FROM:** Jeff Taylor, Dean, Faculty of Arts

A handwritten signature in black ink, appearing to read "J. Taylor".

**SUBJECT: Letter of Participation in Ukrainian Canadian Heritage Studies**

At its meeting on September 1, 2021, Faculty of Arts Council considered and approved the Letter of Participation in Ukrainian Canadian Heritage Studies.

The information related to this proposal is below. Please forward this information to Senate.

Enclosures.

cc: G. Smith, Chair, Faculty of Arts CPAC  
J. Riddell, Secretary, Faculty of Arts CPAC  
G. Sobie, Manager, Student Services, Faculty of Arts  
S. Coyston, Secretary, SCCCC





The Centre for  
Ukrainian Canadian Studies  
Центр Українсько-Канадських Студій

209 – 29 Dysart Road  
University of Manitoba  
Winnipeg, Manitoba  
Canada R3T 2N2  
Telephone: (204) 474-8905  
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Email: [cucs@umanitoba.ca](mailto:cucs@umanitoba.ca)

**Proposal**  
**Letter of Participation in Ukrainian Canadian Heritage Studies**

**About the Centre for Ukrainian Canadian Studies:**

The Centre for Ukrainian Canadian Studies (CUCS) is located at St. Andrew's College, University of Manitoba in Winnipeg, MB. The mission of the Centre for Ukrainian Canadian Studies is to create, preserve and communicate knowledge related to Ukrainian Canadian culture and scholarship. The CUCS was founded with approval by the University Grants Commission as an unincorporated entity in 1981 creating a special affiliation between the University of Manitoba and St. Andrew's College. Within the field of Ukrainian Canadian Studies, the Centre was to be concerned with teaching credit and non-credit courses, research and scholarship in Ukrainian Canadian Heritage Studies (including culture, history, art, folklore and relationships to Ukraine) and community service in related areas, attempting to promote communication with the Ukrainian Canadian community amongst people interested in multiculturalism in Canada. The CUCS is, in its essence, the tie between the University of Manitoba and St. Andrew's College. Initially focusing on the offering of courses at the undergraduate level, the CUCS has evolved over the years into a significant and recognized component of the Canadian academic community. Today, the CUCS is a multi-faceted unit offering courses leading to majors and minors in Ukrainian Canadian Heritage studies, developing a research profile, and providing a variety of community outreach activities such as monthly lectures featuring prominent speakers from Canada and abroad.

**Letter of Participation in Ukrainian Canadian Heritage Studies**

Letters of Participation in Ukrainian Canadian Heritage Studies will allow students as well as members of the Ukrainian community to further their knowledge of Ukraine and Ukrainian Canadiana. The letters will be of special significance to the community members who may not be able to take university courses due to registration barriers or other commitments and are looking to continue their lifelong learning in this subject area.

**Entrance Requirements:**

Any individual that resides in Canada who is interested in Ukraine or Ukrainian Canadiana is welcome to pursue the Letter of Participation in Ukrainian Canadian Heritage Studies. Expressions of interest can be submitted to [cucs@umanitoba.ca](mailto:cucs@umanitoba.ca) and will be reviewed by the CUCS Coordinator.

**Participation Requirements:**

Participants will be required to attend a minimum of seven lectures or a minimum of five lectures and two reading club meetings in order to be eligible to obtain the letter of participation.

Monthly lecture series will take place from September 2021 until May 2022 and will cover a wide range of Ukrainian and Ukrainian Canadians topics. The Centre's lectures last about 1-2 hours and are followed by a Q & A session moderated by the CUCS Coordinator. Most of lectures will be conducted via Zoom. Viewing lectures on YouTube after the session has taken place will not count towards the minimum requirements to receive the Letter of Participation.

Reading club meetings will take place every two months and involve discussing a new Ukrainian/Ukrainian Canadian book at each session. Books will be selected by the moderator with assistance from the participants. Each discussion session will last about 1.5-2 hours and will be conducted via Zoom.

**Performance Requirements:** Participants will be evaluated based on attendance. Participation in the discussions and Q & A sessions is recommended.

**Logistics:**


The Centre will maintain participants' records. A Letter of Participation signed by the Director/Dean with the university logo will be issued to the participants once the program is completed. Letters of Attendance will be awarded at the Annual St. Andrew's College Convocation and Awards Ceremony.



## MEMORANDUM

**DATE:** December 1, 2021

**TO:** Michael Benarroch, President & Vice-Chancellor, Chair of Senate

**FROM:** Jeff M. Leclerc, University Secretary 

**SUBJECT:** **APPROVAL OF MOTION**  
**Board of Governors – November 30, 2021**

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On November 30, 2021, the Board of Governors approved and/or received for information, the following items from Senate:

**THAT the Board of Governors approve, as recommended by Senate:**

- A. Report of the Senate Committee on Awards (September 23, 2021)
- B-1. Proposals for a Professorship in Family Medicine Research and Innovation and a Professorship in Quality Improvement
- B-2. Revised terms of reference for the MPI Professorship in Neurosciences
- B-3. Revised terms of reference for the Evelyn Wyrzkowski Research Chair in Cardiology
- C. Proposal from the Faculty of Arts to revise the name of the Department Native Studies to the “Department of Indigenous Studies,” effective January 1, 2022

**Items received for information:**

- D. Extension of Suspension of Admissions:
  - President’s Approval - Master of Arts in Icelandic, Baccalaureate Program for Registered Nurses, Post-Baccalaureate Diploma in Agrology
  - Provincial Approval – Bachelor of Science (Honours) and Bachelor of Science (Major) in Biotechnology, Bachelor of Science in Pharmacy
- E. Provincial Approval - Closure of Master of Science in Family Social Sciences
- F. 2022- 2023 Academic Schedule

Copy: D. Hiebert-Murphy  
N. Andrew  
J. Kearsey  
D. Jayas  
C. Cook  
S. Coyston

JL/sf

**PRESIDENT'S REPORT TO SENATE**  
**January 12, 2022**

**GENERAL**

Seven UM professors were named by Women's Executive Network (WXN) on October 25, 2021 as among [Canada's Top 100 Most Powerful Women in 2021](#). WXN is a national organization dedicated to the advancement of women at all levels, sectors and ages. The UM winners join 20 previous UM recipients and include Dr. Tracie Afifi (Rady Faculty of Health Sciences); Dr. Patricia Birk (Rady Faculty of Health Sciences); Dr. Tina Chen (Faculty of Arts); Dr. Joanne Embree (Rady Faculty of Health Sciences); Melanie MacKinnon (Rady Faculty of Health Sciences), Dr. Melanie Morris (Rady Faculty of Health Sciences); and Dr. Janice Ristock (Faculty of Arts).

On August 19, it was announced that COVID-19 vaccines will be required for everyone on campus starting in late fall of 2021 and that this protocol would be in place for the balance of the 2021-22 academic year. All UM staff and students were required to submit proof of their COVID-19 vaccine by November 14, even if working or studying remotely. At this time, anyone who has not uploaded this proof must participate in the UM's rapid testing program and have a negative COVID-19 testing result before participating in on-campus activities. UM is monitoring to ensure that employees and students have either submitted proof of vaccination or are attending the UM's rapid testing site.

The 2021 International Distinguished Entrepreneur Award (IDEA) from the Associates of the Asper School of Business was presented to UM alumnus Dr. Ernest Rady [BComm/58, LLB/62, LLD/15] on November 17, 2021. Dr. Rady was recognized and celebrated for his entrepreneurial achievements and significant contributions in both Canada and the United States. Dr. Rady's impactful philanthropic and volunteer work has advanced medical education, the health and well-being of children, and scientific research. In 2016, Dr. Rady, along with his wife, Evelyn [BA/60,BSW/61,MSW/67] donated a transformative \$30 million – the largest-ever personal gift to the University of Manitoba – to the Front and Centre campaign in honour of his father, Dr. Max Rady [MD/21], a Russian emigrant and the namesake of the Max Rady College of Medicine, and mother, Rose Rady. UM health sciences students now graduate from the Rady Faculty of Health Sciences.

On the weekend of November 21, 2021 the mediator working with the University of Manitoba and UMFA on negotiating a new collective agreement recommended the parties move to binding arbitration. The University [accepted the recommendation](#) as the best path forward to end the strike, get students back to classes and reach a fair collective agreement. The university and UMFA have used binding arbitration in the past to reach collective bargaining agreements.

**REPORT OF THE VICE-PRESIDENT (ACADEMIC) AND PROVOST**

**Staff Distinctions**

- Will Bonness, music, was named Jazz Artist of the Year at the Western Canada Music Awards.

- Heather Dean, pediatrics and child health, has been awarded the 2021 J. Allyn Taylor International Prize in Medicine. The prize, given annually by the Robarts Research Institute at Western University, recognizes scientists who have made significant contributions in the institute's principal areas of research.
- Netha Dyck and Donna Martin, college of nursing, were inducted as fellows of the Canadian Academy of Nursing. In a virtual ceremony Oct. 15, Martin was one of 38 fellows inducted in the second annual class of fellows to be named since the academy was established in 2019. Dyck was one of 46 fellows inducted in the academy's inaugural class. Fellowship in the academy represents the highest honour for Canada's nursing leaders.
- Michael Eskin, food and human nutritional sciences, was selected to receive the Order of Manitoba for his world-recognized research into canola oil and his excellence in food science writing.
- Cheryl Lee, college of pharmacy, has been awarded the 2021 Advising Excellence Award. The award recognizes a staff member who goes above and beyond in their contributions to students' development and experience at UM.
- Cary Miller, native studies, was featured as the Province of Manitoba's Indigenous Educator of the Month for the month of October (the article is published on their Education web site).
- Alicia Nijdam-Jones, psychology, became the Associate Editor of the International Journal of Forensic Mental Health.
- Noralou Roos, community health sciences, will be one of six 2022 laureates inducted into the Canadian Medical Hall of Fame (CMHF). Roos is being recognized for unlocking the potential of big data systems analysis to clarify the social determinants of health, such as poverty.
- Garrett Sawatzky, school of agriculture, was named recipient of the 2021 North American Colleges and Teachers of Agriculture Teaching Award of Merit. This award is given in recognition of dedication and enthusiasm in providing a positive learning environment and a commitment to teaching excellence.
- Charles Thomsen, landscape architecture, has received an honor from the Province of Manitoba for his community service specifically for the forty years that he has been volunteering and working with the International Peace Garden.

### **Student Honors**

- PJ Anderson, school of art, was the first recipient of the David and Gursh Barnard Graduate Scholarship in Fine Arts.
- Taylor Buss, school of art alumna, was selected 2021 BMO 1st Art! regional winner. The annual competition invites deans and instructors from 110 undergraduate art programs across Canada to nominate three students from each of their studio specialties to submit a recent work. An esteemed panel of jurors selected this year's winning works from a pool of a record 336 submissions.

- Uduak Edet, biosystems engineering and Chelsey Walchuk, food and human nutritional sciences, were named recipients of the 2021 North American Colleges and Teachers of Agriculture Graduate Student Teaching Award. This award is given in recognition of dedication and enthusiasm in providing a positive learning environment and a commitment to teaching excellence.
- Jayelle Friesen-Enns, medicine, is the UM recipient of a Canadian Medical Hall of Fame (CMHF) Award. Each year, the awards honour one second-year medical student at each of Canada's 17 medical schools who demonstrates community leadership, superior communication skills and interest in advancing knowledge. Friesen-Enns is now in her third year at the Max Rady College of Medicine while concurrently completing her master's in medical microbiology and infectious diseases. A Métis woman, she has been an advocate for inclusion and representation initiatives for Indigenous medical students and co-founded the Indigenous Medical Students' Association of Canada.

### **New Initiatives/Special Events**

- During UM Homecoming week, the Department of Biosystems Engineering celebrated its 50th anniversary as a program at the University of Manitoba.
- The governments of Canada and Manitoba are providing \$1.5 million for Manitoba Egg Farmers to establish the Egg Layer Research and Public Engagement Facility at the Glenlea Research Station. The proposed new facility will advance and enhance research on modern egg production techniques and technologies. This new facility will help ensure Manitoba is home to world-class research on egg production and development in support of the Manitoba Protein Advantage Strategy.
- Lisa Landrum, architecture, together with Faculty of Architecture students and a multidisciplinary team - from music, theatre, dance, storytelling and animation arts - contribute Five Acts of Archimagintion to the Venice Architecture Biennale this fall via the CITYX Italian Virtual Pavilion and ALN 'SunShip'.
- A livestreamed collaborative event took place on October 8 between graduate students of the Faculty of Architecture's Interior Design program and the Desautels Faculty of Music's eXperimental Improv Ensemble (XIE). The Ensemble interpreted graphic scores and videos created by the Interior Design Students.
- On Sept. 13, prominent 2SLGBTQIA+ community members discussed challenges with the health-care system at the virtual Pride 2021 Town Hall. The event was presented by the Office of Equity, Diversity and Inclusion in the Rady Faculty of Health Sciences. The virtual panel discussion was moderated by a transgender woman and included four queer panelists. One of the key themes was how negative experiences in seeking health care can lead people in marginalized communities to avoid seeking treatment, resulting in dire health consequences.
- On Sept. 28 at a ceremony on the Bannatyne campus, two tiny pairs of shoes served as a symbol of children's lives lost to the residential school system. Leslie Spillett, a Knowledge Keeper in the Rady Faculty of Health Sciences, spoke about the thousands of Indigenous children who were stolen from their families and did not survive at residential schools. The event was the first of two Honouring Our Children ceremonies organized by Ongomiizwin, the Indigenous Institute of Health and Healing, in the Medicine Garden on the campus. The gatherings were among many commemorative events connected

to the National Day for Truth and Reconciliation (also known as Orange Shirt Day – Every Child Matters), a federal statutory holiday on Sept. 30.

- On Sept. 29, more than 80 students, faculty, staff and guests attended a virtual ceremony held by the Nursing Students' Association and the College of Nursing to mark Every Child Matters – Orange Shirt Day. The event was held in place of the annual Orange Shirt Day walk from the Helen Glass Centre for Nursing to the National Centre for Truth and Reconciliation on the Fort Garry campus. It was hosted by Deanna Garand, a student in the Mahkwa omushki kiim: Pathway to Indigenous Nursing Education program. Those delivering messages included UM President and Vice-Chancellor Dr. Michael Benarroch, Dr. Catherine Cook, UM vice-president (Indigenous), and Dr. Netha Dyck, dean of nursing.
- The School of Art Gallery opened three feature exhibitions:
  - Anna Binta Diallo: Wanderings, October 14 to December 4
  - Robert Houle: The Sandy Bay Residential School Series, October 14 to December 4
  - Thirza Cuthand: Medicine Bundle, October 14 to December 4

### **REPORT OF THE VICE-PRESIDENT (RESEARCH AND INTERNATIONAL)**

- At this time, research at the University of Manitoba (UM) is continuing within in the labs as well as remotely to the extent possible in compliance with the provincial Public Health Guidelines. Details on the current COVID-19 guiding principles, processes for requesting access and preventative measures are available in the updated Researcher FAQs section of the COVID-19 webpage.
- The Royal Society of Canada (RSC) announced the election of two UM professors as Fellows of the RSC: Drs. Michael Eskin (Food and Human Nutritional Sciences) and Evelyn Forget (Community Health Sciences). Dr. Meghan Azad (Pediatrics and Child Health, Children's Hospital Research Institute of Manitoba) and Canada Research Chair in Developmental Origins of Childhood Diseases has been elected as member of the RSC's College of New Scholars, Artists and Scientists.
  - Eskin has made exceptional contributions to research on edible oils, particularly canola oil, for which he received many prestigious awards including the Order of Canada in 2016. He is one of world's leading food science writers with 17 books to his credit. His book, *Biochemistry of Foods*, now in its third edition, is used in university courses around the world and has been translated into several different languages.
  - Forget is a multidisciplinary political economist who uses the tools of economics to inform policy debate locally, nationally and worldwide. Her methodological innovations, which ground big data and experimental techniques in a profound understanding of history and culture, have re-invigorated research on social welfare policy and created new hope for people caught up in dysfunctional bureaucratic systems.
  - Azad is an international expert in human milk science. She leads a diverse team with collaborators in over 20 countries. She co-founded the Manitoba Interdisciplinary Lactation Center (MILC) and co-directs the International Milk Composition Consortium. Azad's trailblazing research is shaping policy and practice regarding infant feeding, human milk banking and maternal-child healthcare.

These new inductees bring UM's number to: 53 RSC Fellows and 11 Members of the College of New Scholars, Artists and Scientists.

Fellows, members and award winners from across the country were officially inducted and honoured during the online Celebration of Excellence and Engagement, Nov. 15-20.

- Two UM professors were elected as Fellows by the Canadian Academy of Health Sciences (CAHS): Drs. Keith Fowke (Medical Microbiology and Infectious Diseases) and Ruth Ann Marrie (Medicine; Community Health Sciences; Health Sciences Centre).
  - Fowke’s research focuses on biomedical HIV prevention and is based on cohort studies in Kenya. His studies of individuals who are intensely exposed to HIV, yet remain uninfected, have been paradigm shifting and have led him to develop the “Immune Quiescence (IQ) hypothesis”. Today, his team is currently testing a novel HIV prevention strategy using the safe, affordable and globally available anti-inflammatory drug, aspirin.
  - Marrie is known internationally for her innovative work regarding the effect of comorbidity on people with multiple sclerosis (MS), a largely unexplored area in the field of MS before she began her work. In 2010, she published the first report suggesting that vascular comorbidities such as diabetes and hypertension adversely affect disability progression in MS. Subsequently, she showed that comorbidity adversely affects relapse rates, treatment, mortality, and quality of life in people with MS. These findings have influenced research, clinical care and treatment guidelines and international quality standards for care.
- Professor Emerita Dr. Noralou P. Roos, founding director of the Manitoba Centre for Health Policy (MCHP) in the Rady Faculty of Health Sciences, is one of six 2022 inductees into the Canadian Medical Hall of Fame (CMHF). To be inducted into CMHF, recipients must not only be exemplary scientists, but leaders whose work has led to exceptional improvements in human health.

Roos is being recognized for unlocking the potential of big data systems analysis to clarify the social determinants of health, helping inform effective policies in support of universal health care. Roos and her husband, Dr. Leslie Roos, co-founded MCHP at UM, in 1991. The Manitoba Population Research Data Repository at MCHP makes it possible to track the health and health systems use of approximately one million Manitoba individuals and has become a model for research data centres across Canada and around the world.

Roos will be inducted at the 2022 Canadian Medical Hall of Fame Laureates celebration ceremony held in association with The University of Ottawa, Faculty of Medicine on June 17, 2022 in Ottawa, Ontario. There are now 9 UM inductees to the CMHF.

- Seventy-four research projects led by 39 PIs received a total of \$19,113,672 in grant funding from a variety of sponsors. Those projects receiving more than \$25,000 are:

PI	Sponsor	Title	Awarded Amount
Bakker, Matthew (Microbiology)	American Society of Brewing Chemists	Identification of Fusarium graminearum strains producing different hydrophobin structural variants, and evaluation of the	\$28,670



		expression of hydrophobin genes in planta and during malting	
Barber, David (Centre for Earth Observation Science)	University of Calgary	The Churchill Marine Observatory	\$2,190,409
Bassuoni, Mohamed (Civil Engineering)	NSERC Alliance Grant	High-performance nano-modified cementitious composites comprising multi-scale fibres for concrete flatwork	\$86,792
Becker, Marissa (Community Health Sciences)	Canadian Institutes of Health Research (CIHR)	An exploratory investigation into the unmet STBBI prevention and treatment needs of military personnel throughout a protracted conflict in eastern Ukraine using complementary epidemiological, phylogenetic and mathematical modelling approaches	\$200,000
Collister, David (Internal Medicine)	Canadian Institutes of Health Research (CIHR)	REsponSiveness of urEmic sympToms to DIALYSIS (RESET-DIALYSIS)	\$321,300
Coombs, Kevin (Medical Microbiology and Infectious Diseases)	Canadian Institutes of Health Research (CIHR)	Molecular determinants of Zika virus propagation and pathogenesis in human glial cells	\$100,000
Currie, Robert (Entomology)	Manitoba Beekeeper's Association	Integrated management of varroa and its interacting stressors to enhance winter survival of honey bees	\$47,500
Davidson-Hunt, Iain (Natural Resources Institute)	Mitacs Inc.	Designing a Great Slave Lake fishery by northerners for resilient futures in the NWT	\$120,000
Dhingra, Sanjiv (Physiology & Pathophysiology)	Canadian Institutes of Health Research (CIHR)	Role of COP 9 signalosome subunit 5 in preserving immunoprivilege of allogeneic mesenchymal stem cells in the ischemic heart	\$960,076
Fayek, Mostafa (Geological Sciences)	Nova Scotia Mineral Resources Development Fund (MRDF)	The source of fluids associated with critical-mineral formation in the Mulgrave Lake, Barrington, Shelburne, and Port Mouton Plutons, Nova Scotia, Canada	\$90,000
Gagnon, Suzanne (Business Administration)	Ryerson University	Inclusive Innovation and Entrepreneurship Network	\$92,000
Hardy, Krista (Surgery)	Canadian Institutes of Health Research (CIHR)	Incorporating Indigenous healing and wellness practices into a bariatric surgery program	\$470,475

Hensel, Jennifer (Psychiatry)	Health Sciences Centre	Telepsychiatry and virtual care - Research Operating Funds	\$140,000
Keijzer, Richard (Surgery)	Canadian Institutes of Health Research (CIHR)	Seeking wisdom: A longitudinal population-based long-term follow-up study of congenital surgical anomalies	\$233,324
Keijzer, Richard (Surgery)	Canadian Institutes of Health Research (CIHR)	Circular RNAs and their role in congenital diaphragmatic hernia	\$749,700
Lavoie, Josee (Community Health Sciences)	Canadian Institutes of Health Research (CIHR)	Qanuinnngitsiarutiksait 2: Developing tools for the wellness and safety of Inuit	\$1,954,576
Lavoie, Josee (Community Health Sciences)	University of Saskatchewan	Wuniska! Indigenous Centre on HIV/HCV /STBBI Inequities	\$219,050
MacKay, Dylan (Community Health Sciences)	Canadian Institutes of Health Research (CIHR)	Reducing dietary acid with fruit and vegetables versus oral alkali in people with chronic kidney disease (ReDACKD) feasibility trial	\$100,000
McKinnon, Lyle (Medical Microbiology and Infectious Diseases)	Canadian Institutes of Health Research (CIHR)	Regulatory T cells and the control of female genital inflammation: Relevance for HIV prevention	\$300,000
McLachlan, Stephane (Environment & Geography)	Canadian Institutes of Health Research (CIHR)	An Indigenous-led response to COVID- 19 that supports communities responding to challenges such as vaccine hesitancy, unique variants and any long-term impacts of COVID into the future	\$400,920
Nagy, James (Physiology & Pathophysiology)	Canadian Institutes of Health Research (CIHR)	Structural composition and regulation of electrical synapses in the CNS	\$742,050
Ng, Marcus (Internal Medicine)	Canadian Institutes of Health Research (CIHR)	The REM-spike project: A set theoretic concordance evaluation of Rapid Eye Movement sleep in localizing the epileptogenic zone	\$548,890
Protudjer, Jennifer (Pediatrics and Child Health)	Canadian Allergy, Asthma and Immunology Foundation	NOURISH: patieNt-Oriented research to Understand and addRes Inequities of food accesS and insecurity amongst Households managing food allergy	\$25,000
Pylypjuk, Christy (Obstetrics, Gynecology and Reproductive Sciences)	Health Sciences Centre Foundation	The burden of neonatal hypoglycemia amongst babies born to mothers with diabetes: A birth-cohort study	\$70,000

Rochon, Kateryn (Entomology)	Mitacs Inc.	Assessing the relationship between tick abundance on pastures and on cattle, and the risk ticks represent to cattle and livestock workers	\$105,000
Roos, Leslie (Psychology)	Children's Hospital Research Institute of Manitoba (CHRIM)	Effect of an online multimodal maternal intervention on children's disruptive behaviour disorders: The moderating role of temperament and physiological regulation	\$44,100
Roos, Leslie (Psychology)	Children's Hospital Research Institute of Manitoba (CHRIM)	The Building Regulation in Dual Generations Program (BRIDGE): Preventing the intergenerational transmission of mental illness in at-risk preschool children	\$105,000
Saleem, Ayesha (Kinesiology and Recreation Management)	Children's Hospital Research Institute of Manitoba (CHRIM)	Rejuvenating immune function using extracellular vesicles to reverse cognitive decline	\$44,100
Schroth, Robert (Preventive Dental Sciences)	Canadian Institutes of Health Research (CIHR)	Oral microbiome and caries risk in young First Nations and Métis children in Manitoba	\$1,422,900
Siddiqui, Tabrez (Physiology & Pathophysiology)	Canadian Institutes of Health Research (CIHR)	Regulation of a synaptic pathway in neuropsychiatric disorders	\$983,026
Soderstrom, Melanie (Psychology)	University of British Columbia	Building large-scale collaborative networks in infant and behavioral research	\$34,905
Stern, Gary (Centre for Earth Observation Science)	Genome Canada	GENICE II: Reimagining monitored natural attenuation as an oil spill response tool in the Arctic	\$2,998,536
Stetefeld, Joerg (Chemistry)	Canadian Institutes of Health Research (CIHR)	Connective Tissue Growth Factor (CTGF): A key player in fibrosis and cancer	\$742,050
Stroeve, Julienne (Centre for Earth Observation Science)	Laval University	Improved Canadian Arctic Sea ice thickness estimates	\$40,000
Thiessen, Maclean (Internal Medicine)	Knight Therapeutics Inc.	Discovering a framework for creating online information about curative intent cancer treatments: A cancer maps project	\$25,000
Thompson, Shirley (Natural Resources Institute)	Mitacs Inc.	Kitigay: Indigenous food systems research with Brokenhead Ojibway Nation, Manitoba	\$1,200,000

Thompson, Shirley (Natural Resources Institute)	Mitacs Inc.	Traditional land use mapping and environmental assessment with Maawandoon	\$450,000
Thulasiram, Ruppa (Computer Science)	Mitacs Inc.	Financial analysis of digital assets: Inter-relationship with traditional assets and improving digit asset modeling over traditional financial assets	\$60,000
Thulasiraman, Parimala (Computer Science)	Mitacs Inc.	A predictive cluster-based machine learning pricing model	\$30,000
Torabi, Mahmoud (Community Health Sciences)	University of Toronto	Statistical methods for managing emerging infectious diseases	\$120,000
Uhanova, Julia (Internal Medicine)	Canadian Institutes of Health Research (CIHR)	Traditional Indigenous land-based diet and chronic inflammation: Does adherence to the traditional First Nations diet decrease the severity of chronic inflammatory diseases?	\$573,751
Uzonna, Jude (Immunology)	Canadian Institutes of Health Research (CIHR)	Regulation of antigen-specific memory CD4+ T-cell responses in cutaneous leishmaniasis	\$990,676
Wittmeier, Kristy (Pediatrics and Child Health)	Canadian Institutes of Health Research (CIHR)	A mixed methods social network analysis approach to understand knowledge translation in child development and rehabilitation	\$240,976
Yuan, Qiuyan (Civil Engineering)	Mitacs Inc.	Solid waste management plan for Rosenort and Lowe Farm waste disposal sites	\$30,000

## REPORT OF THE VICE-PRESIDENT (INDIGENOUS)

### Initiatives

- Indigenous Identity Consultation working group
  - The primary goal of the working group is to hear the voices of Indigenous community members and to provide the University with guidance and advice on how we should be addressing the issue of affirmation and verification of Indigenous identity. The UM will develop a process to address claims of Indigenous identity.
- Sponsored and attended Honouring ceremony for Elder David Courchene, Turtle Lodge in Sagkeeng First Nation

**AVPI – Scholarship, Research and Curriculum** – Dr. Cary Miller started November 1, 2021

- Respectful Repatriation Policy working group
  - Space Allocation and physical plant are in discussions regarding respectful space for ancestors (Indigenous human remains) held at UM
- Indian Residential School ground research UM group to support Sandy Bay First Nation
  - also discussing educational opportunities for Sandy Bay students as a result of the research work
- AVPI – Research met with Manitoba Museum Indigenous Advisory Committee, Manitoba Aboriginal Languages Strategy (MALS) which includes reps from UCN, UW, MFNERC, and the province.

**AVPI – Students, Community, and Cultural Integration** – Christine Cyr

- Seven Oaks School Division Dual Credit Lawmakers program was officially launched in late September when 10 students enrolled in the course.

**Indigenous Engagement and Communication** - Ruth Shead, Director

- MI-AP/Blueprint table in October
- A roundtable in October
- Ruth Shead is now co-chair of the Manitoba Collaborative Indigenous Education Blueprint Committee
- Calls for Indigenous Initiative Fund applications will be going out soon, with a new student application option (TBD, depending on ending of labour dispute with UMFA)
- Indigenous Connect brings together Indigenous staff, faculty, student leaders and allies monthly to discuss Indigenous-focused initiatives. September - Dr. Cary Miller presented on the 2021 Summer Institute on Literacy in Indigenous Content for UM Faculty and Staff.
- A monthly newsletter also allows anyone to stay engaged with the Indigenous community at UM and receive updates on professional and academic opportunities, events and colleague connections.

**Portfolio structure and Staffing**

- 4 vacancies filled, 1 remaining vacancy
- *New positions:*
  - NCTR:
    - Executive Assistant to Head of Archives
    - Executive Assistant to Academic & Research Director
    - Community Liaison Officer

- new Work-Study student position has been created to assist with events
- Indigenous Student Recruitment Officer Nicole Stonyk reduced to a part time (SSHRC Award Recipient).

### **National Centre for Truth and Reconciliation**

- working with the Government of Canada (CIRNAC) for sustainable funding and projected growth for the next 5 years; working together for a new NCTR building
- Between September 16th and November 16th, 2021, the NCTR education unit engaged in 85 presentations, workshops, tours, and events with over 9400 people.
- The education unit engaged with organizations like: FedEx, Experiences Canada, Huge Inc., Kuehne + Nagel Ltd., the Museum of History, the Manitoba Museum, Royal Bank of Canada, The Canadian Union of Public Employees, The Manitoba Teachers' Society, and Wattpad. This list also includes educational institutions like Arthur E. Wright School, Centennial College, Humber College, Netivot HaTorah Dat School, Saint Boniface University, St. John's Ravenscourt, University College of the North, University of Manitoba, University of Winnipeg, and Yellow Quill College. Additionally, the education unit has engaged with government organizations like Agriculture and Agri-Food Canada, City of Winnipeg, Fisheries and Oceans Canada, Manitoba Justice, Service Canada, and Tofield Alberta.
- September 30th:
  - Winnipeg Art Gallery event - all admissions were donated to the NCTR; over 400 people in attendance to hear from special guests Elder Betty Ross, Marlene Gallagher, and Sean Carleton
  - Imagine a Canada arts and leadership youth initiative launched; Information in English, French, and two Inuktitut dialects; social media awareness campaign assisted by funders IG Power Corp and CCUNESCO schools. The deadline for submissions is December 17th, 2021, and the first entries have begun to come in.
- NCTR dialogue online October 26th hosted by Brenda Gunn with special guests Dr. Andrew Erueti, Sashia Leung, and Jesse McCormick. The 1.5hr discussion was on reconciliation in relation to the UN Declaration on the Rights of Indigenous peoples -over 300 virtual guests

### **Truth and Reconciliation Week – Programming all week (September 27 – October 1, 2021)**

- National Broadcast with APTN and CBC.
- National Day for Truth and Reconciliation – September 30th, 2021
- ‘Light the Country Orange’ – Letters went out to Provinces, Cities and Federal Govt.
- 50 Survivors, Knowledge Keepers, Elders, Commissioners voices were shared with 1,000,000+ students, viewers and public online.
- Six Survivor vignettes produced in partnership with APTN currently have 1,000,000 plus views on NCTR social media and included the voices of Survivors we work with like Phyllis Webstad, Dr. Barney Williams and Edna Elias.

- Youtube channel has had so many views we are now able to generate ad revenue.
- Twitter had 1.23 million impressions and is up 215%, Website views in Sept. are 1.1 million with 400,000 users.
- Top pages are Truth and Reconciliation week 146K, T & R week general public 108K, Reports 100K, T& R week schedule 51K and the Survivor Commemorative Flag 35K.
- We received 40,000 in ad credits to support Truth and Reconciliation week.
- 3 hours of national broadcast National Day for Truth and Reconciliation - aired on CBC, APTN, CBC Gem, aptn lumi, CBC Radio 1, ICE Tele, ICI Tou TV and the next day Hollywood suites and Super Channel. Inuit Air has requested to license the program in flight that was hosted by Elisapie.
- A supporting publication educational guide translated it into French, English and Inuktitut. 150,000 print copies distributed to teachers and students across the country, all in response to teacher requests. 109 orders for the Inuktitut edition.
- NCTR online store sold over \$100,000 worth of goods and provided in kind donations/gifts to the community and Survivors.
- included in over 100 media articles with 60 plus interviews conducted by the NCTR team from a google blog to national media

#### **Helen Betty Osborne Memorial Scholarship**

- NCTR and the Indigenous Chamber of Commerce (ICC) will lead the project with support from The Winnipeg Foundation to re-activate the Helen Betty Osborne Memorial Awards for Indigenous students. The application portal opens on Nov. 13, 2021, which marks the 50th anniversary of Helen Betty Osborne's tragic death. Thirty, \$2,500 awards will be allocated from the Helen Betty Osborne Memorial Fund to Indigenous students.

#### **Na-mi-quai-ni-mak Centre Community Support Fund**

- NCTR to receive a \$250,000 donation from BMO in support of the Na-mi-quai-ni-mak ('I remember them') Centre Community Support Fund. As a national and Indigenous-led fund, the Na-mi-quai-ni-mak Fund is the only one of its kind in Canada that provides grants to Indigenous communities for memorial and healing activities such as community ceremonies and feasts, commemorative markers such as gardens and plaques, and maintenance of burial sites.

#### **Digital Witness Blanket Project**

- The Digital Witness Blanket is the result of a collaborative effort between Carey Newman, the Canadian Museum for Human Rights (CMHR), Media One, Camosun College, and Animikii. It is a virtual extension of the Witness Blanket and works to expand public access to the Stories of Survivors. It serves as a

healing tool for Survivors, their families, and their communities, and offers a pathway to further pursue reconciliation.

- Since September, the NCTR Survivors Circle has been giving their guidance and advice to the Canadian Museum for Human Rights. Conversations between the Survivors Circle and CMHR have been positive.

### **Commemorative Flag – Ottawa - September 29th**

- 6 Survivors and 4 NCTR staff members travelled to Ottawa to attend a Survivors' Flag raising ceremony with Prime Minister Justin Trudeau at the Parliament Hill. NCTR engaged 30+ Survivors across Canada on a flag design in honour of Survivors and the children who never returned home. NCTR, Survivors and a Metis artist collaborated on the design.

### **Events during September – November**

- Indigenous Student Center hosted a virtual Indigenous Orientation on Wed, Sept 15/21
- Financial wellness workshops, Indigenous student Study Halls, Fire Side Chats and weekly Sharing Circles.
- Indigenous Student Information Series held October 21, 2021.
- Virtual Open House held October 26, 2022
- September 20, 2021, NCTR ED, Stephanie Scott visited Tk'emlúps te Secwepemc First Nation and Chief Casimir in Kamloops, BC.

### **2SLGBTQQIA+ Engagement (November 9, 2021) – NCTR**

- The purpose of this engagement was to meet with members of the 2SLGBTQQIA+ Survivors and inter-generational Survivors as the experiences and perspectives of the 2SLGBTQQIA+ community have not been adequately reflected in the work of the NCTR and TRC before us. 10 members from the 2SLGBTQQIA+ community joined the conversation.
  - Increasing the role of 2SLGBTQQIA+ Survivors, Inter-Generational Survivors, Elders and Knowledge Keepers in the governance and operations of the NCTR, including prioritizing recruitment of 2SLGBTQQIA+ Survivors and/ or Inter-Generational Survivors to fill upcoming vacancies on the Survivors Circle;
  - Expanding collaboration between NCTR and 2SLGBTQQIA+ organizations on public events, such as the NCTR's Decolonized Lens screening, or a series of public forums or other events;
  - Creating new educational content on the experiences of 2SLGBTQQIA+ Survivors and Inter-generational Survivors;
  - Reviewing current NCTR educational materials from the perspective of 2SLGBTQQIA+ inclusive language; and
  - Adopting Operating Procedures to make the NCTR a more inclusive and culturally safe space for 2SLGBTQQIA+ Survivors, Inter-Generational Survivors and community members.



### Upcoming Events

- Annual Elders & Traditional Peoples Gathering (spring 2022)
- Annual Graduation Pow Wow (spring 2022)
- Roundtable collaboration with the Manitoba Industry-Academia Partnership (MIAP) to bring together industry, academia, and community for a discussion of community economic goals in planning stages.
- 4 Dialogue Sessions have been scheduled for the winter:
- Indigenous Adult Learners
- Assembly of Manitoba Chiefs
- Inuit community
- Manitoba Métis Federation
- Indigenous Students Information Series session - November 25, 2021.
- Christmas Hamper for Access Program and Indigenous students with multiple campus partners where we deliver gift bags with gift cards, medicines and other misc. items. Deliveries will be Dec 21-23.
- Virtual Open House (Spring) scheduled for February 24, 2022.
- Indigenous Leader of Tomorrow Scholarship Interview Day scheduled for March 15, 2022.

### NCTR National Virtual Gathering - December 19th

- This pre-recorded Virtual event will be done in partnership with Parks Canada. The NCTR is working with AMP in arranging Survivors, speakers and entertainers to participate. The event will begin at 10:00 AM and end at 3:00 PM CST.
- Committee of 4 Survivors: Kayseas, Mike Metatawabin, Martha Greig and Susan Pfeffer chose Dec. 19 because it would allow Survivors to be near family and feel supported should they encounter any triggers. The event will also highlight residential school thrivers, healing through art and a session on techniques to cope with triggers.

### Awards

- Call for **Indigenous Awards of Excellence** nominations going out in December
- Indigenous Student Centre received **Magnet Funding** to help pay for the cost of hiring students.

- Skylar Dyck \$5 450
- Antonian Kandiurin \$509
- Ashlean Sterling \$1 503
- Skylar Dyck \$1 329
- Veronica Dueck \$3 368

## **REPORT OF THE VICE-PRESIDENT (ADMINISTRATION)**

- The governments of Canada and Manitoba announced funding for the University of Manitoba for projects to support green infrastructure and upgrade community, culture, and recreation facilities through the Investing in Canada Infrastructure Plan. Funding from this program will upgrade the Central Energy Plant and Max Bell Centre. The improvements will benefit the Fort Garry campus by improving energy efficiency and reducing greenhouse gas emissions.
- The Office of Sustainability applied for and received a grant from the Province’s Conservation and Climate Fund to install a limited number of level 1 and 2 electric vehicle (EV) charging stations. Some will be for staff, faculty and student use, while others will be for back-of-house fleet charging.

### **Office of Risk and Compliance**

- The Access and Privacy Office received notice from the Manitoba Ombudsman that their investigation into The Manitoba Personalized Lifestyle Research (TMPLR) Study breach has concluded. The Ombudsman’s Office has found that the University took appropriate actions to investigate and contain the breach and to mitigate risks to the 420 impacted research participants. No additional recommendations or requirements were issued by the Ombudsman. The Faculty of Agricultural and Food Sciences and the Office of Research Ethics and Compliance worked diligently with the Access and Privacy Office to address this breach, and are pleased to report that the University’s policies and procedures are effective, and work to support research integrity and privacy requirements.
- The Environmental Health and Safety Office currently has an informational table positioned in University Centre promoting and assisting students and staff with the online process to self-declare COVID vaccination status, and supplying UM branded 3 ply masks and hand sanitizer. They are also providing information on general health and safety measures to ensure a Safe Return to Campus. The location of the Safe Return table may change over the coming weeks to connect with more members of the University community.

### **Human Resources**

- Learning and Organizational Development is offering workshops and sessions designed to support employees working in this time of transition. A new workshop, “Emotional Intelligence: A personal approach to conflict” helps people to understand how they approach challenging situations, and provides models for ways to better approach and collaborate with others. Recognizing, and appreciating, different personality styles is explored in the session as a way to improve interpersonal communication skills. This workshop includes small and large group discussion, role plays, and self-assessments. Employees can independently register for a session, or units can request that a session be provided exclusively to their team.

- Community building and wellness were the focus of three new learning and networking opportunities offered in October by Learning and Organizational Development. At these sessions, employees gather online to watch an informative video followed by small and large group discussions. These sessions, along with additional topics, will be offered until the end of the fall term:
  - "Building a Culture of Generosity in our Workplace": In this session, participants gathered to view a Ted Talk from Organizational Psychologist Dr. Adam Grant who says that in every workplace, there are three types of behaviours that can help to promote a culture of generosity. Grant explains these personalities and offers simple strategies to promote this culture in our workplace.
  - "Focus on joy, not happiness": Participants listened to an excerpt of an inspiring convocation address given by actor Matthew McConaughey as he shared his views of how to find success – personally, professionally and spiritually – and how to live your best life by focusing on joy instead of chasing happiness. Discussions explored how to leverage these steps to enhance personal joy and wellness in life and at work.
  - "Let's make work better": An inspirational TedTalk by organizational psychologist Dr. Teresa Glomb who discussed how we can raise our attention to the good things that happen for us at work and how to make them happen more often. The video includes Dr. Glomb's tips on ways to be well while working from home. Group discussions explored how individuals can apply those steps to their own remote work experience.

#### **Information Services and Technology (IST)**

- Since October was National Cyber Security Month, IST ran a phishing simulation where 7% clicked on the link and 2% entered credentials, which was an improvement from the April 2021 phishing campaign that saw a 12% click rate and 3% who entered credentials.
- Improved Security Controls and training are now in place for Zoom, and no Zoom bombings have been reported this Fall.
- The objectives of the Learning Hub Partnership, being led by the Office of the Vice-President (Indigenous), include a Pilot Community Partnership with Pinaymootang – Interlake Regional Tribal Council (IRTC) that envisions the construction of an educational training facility on-reserve that is accessible to Manitoba Interlake First Nation communities. Not only will this facility be a convenience to Member First Nation communities, the hope is that it will alleviate some costs associated to students' travel and provide alternatives to moving off-reserve to attend schooling, as well as increase the number of First Nations enrolling in degree courses and other training opportunities. IST has been playing a supporting role providing guidance on networking, printer, computer and peripheral recommendations as well as audio visual design. Additionally, IST has performed a facilitation role engaging experts from the University to provide guidance for building infrastructure (Architectural and Engineering Services) and pedagogy considerations (the Centre for the Advancement of Teaching and Learning) in support of this initiative.

#### **REPORT OF THE VICE-PRESIDENT (EXTERNAL)**

### **Fundraising Highlights**

- To date we have achieved \$26.1 million in philanthropic funds raised against a target of \$41.8 million for the 2021/22 year.

### **Upcoming Activities/Events:**

- The UM Alumni Trivia Night, an alumni engagement activity, will be hosted on December 14.

### **Other Significant Activities:**

- Fall Convocation 2021 took place October 18-21 and on November 10 as virtual ceremonies. Attendees were offered the opportunity to interact via a variety of online engagement activities. This was the 4th consecutive convocation staged via UM digital properties.
- The Distinguished Alumni Award 2021 recipients were publicly announced during Homecoming and their stories shared in the fall 2021 digital issue of UM Today the Magazine.
- The “Let’s Get Digital” postcard campaign was initiated by Alumni Relations to promote the benefits of alumni sharing their email with UM. As well, “UM Career Lab” was launched as a virtual career and life skills program exclusively for recent grads.
- The fall “Virtual Learning for Life” session held in November emphasized climate-related topics as presented by Clayton Riddell Faculty of Environment, Earth and Resources faculty members.
- Enhancements continue to be made to the new umanitoba.ca platform. In addition to improved functionality within the student recruitment site, improved esthetics and additional features such as filtering have been added to improve the user experience.
- Upgrades related to digital properties continue. UM Intranet migrations are ongoing with 10 additional departmental/unit sites published since the May 2021 launch. The final migrations are on track in order to retire RedDot, the legacy platform, in early 2022.
- From Sept. 1, 2021, until Oct. 31, 2021, there were 6,362 news stories in media mentioning UM (up from 4,729 for the same period in 2020), most of which related to COVID-19 in local and national coverage, and labour negotiations in local coverage. The most widely distributed UM story this month pertained to Prof. Nicola Koper’s study on the impacts of lockdowns on bird populations, which appeared in the Guardian, the Globe and Mail, the Wall Street Journal, National Geographic, and the Nature of Things on CBC, among many others.



**December 10, 2021**

**TO:** Jeff Leclerc, University Secretary

**FROM:** Michael Benarroch, President and Vice-Chancellor

**RE:** Search for a Vice-President (Research and International)

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As noted earlier this fall, the Presidential Advisory Committee for the Search for a Vice-President (Research and International) had begun its work and was seeking feedback from members of the University of Manitoba community to inform the search.

In October 2021, a questionnaire was been released to the community requesting input on the following questions:

1. What opportunities, issues, and challenges will await the Vice-President (Research and International)?
2. What qualities and experience should the Vice-President (Research and International) possess?

The discussion with Senate members on these questions planned for November 3, 2021 had been postponed. I still would like Senate members to have an opportunity to engage directly in a discussion on these questions and would ask that a consultation session be included on the agenda for Senate's meeting of January 12, 2022.

Thank you.

December 8, 2021

## **Report of the Senate Executive Committee**

### **Preamble**

The Executive Committee of Senate held its regular monthly meeting on the above date.

### **Observations**

#### **1. Recommendation of the Executive Committee of Senate**

The committee considered one item of business at the meeting. The committee endorsed recommendations from the Academic and Research Team of the Continuity Steering Committee concerning revisions to the 2021 - 2022 Academic Schedule based on a return to teaching on December 7, 2021, by members of the University of Manitoba Faculty Association (UMFA). The recommendation was considered and approved by Senate at a Special Meeting on December 10, 2021.

Respectfully submitted,

Dr. Michael Benarroch, Chair  
Senate Executive Committee  
[Terms of Reference](#)

December 15, 2021

## **Report of the Senate Executive Committee**

### **Preamble**

The Executive Committee of Senate held a Special Meeting on the above date.

### **Observations**

#### **1. Speaker for the Executive Committee of Senate**

Dean Jeff Taylor will be the Speaker for the Executive Committee for the January 2022 meeting of Senate.

#### **2. Comments of the Executive Committee of Senate**

Other comments of the Executive Committee accompany the report on which they are made.

Respectfully submitted,

Dr. Diane Hiebert-Murphy, Acting Chair  
Senate Executive Committee

[Terms of Reference](#)

## **Report of the Senate Executive Committee**

### **Preamble**

At its meeting on November 3, 2021, Senate delegated its approval authority to the Senate Executive Committee to approve (i) revisions to the Academic Schedule for the 2021 Fall and 2022 Winter Terms, as recommended by the Academic Research Team of the Continuing Steering Committee, and (ii) the temporary modification or suspension of academic policies required to facilitate the completion of the Fall and Winter Terms. Senate Executive met on several dates, including November 10, November 17, December 6, and December 15, 2021, to approve the following recommendations on behalf of Senate.

Agendas for the Senate Executive meetings at which these recommendations were approved are available on the University Governance [website](#).

### **Matters approved by Senate Executive on behalf of Senate**

#### **Special Meeting on November 10, 2021**

THAT Senate Executive approve, on behalf of Senate:

- THAT should there be a return to teaching by striking UMFA members on or before November 15th, 2021, the Academic Schedule revisions as presented in Scenario 1 would be implemented;
- THAT should there be a return to teaching of striking UMFA members between November 16th, 2021 and up to, and including, November 23rd, 2021, the Academic Schedule revisions as presented under Scenario 2 be implemented;
- and
- THAT no assignments be due, or tests held, for the first 72 hours following the first class session after the return to teaching by striking UMFA members; and
- THAT, recognizing that some students will have ongoing classes during the exam period in December, academic unit heads and academic staff shall ensure that students are not disadvantaged with respect to any missed classes, materials, assignments/tests when there is a scheduling conflict between a class and an exam.

#### **Meeting on November 17, 2021**

THAT Senate Executive approve, on behalf of Senate:

- THAT should there be a return to teaching of striking UMFA members between November 24th, 2021 and up to, and including, November 30th, 2021, the Academic Schedule revisions as presented in Scenario 3 would be implemented;
- THAT should there be a return to teaching of striking UMFA members between December 1st, 2021 and up to, and including, December 7th, 2021, the Academic Schedule revisions as presented in Scenario 4 would be implemented.



### **Special Meeting on December 6, 2021**

THAT Senate Executive approve, on behalf of Senate, a request from the Faculty of Law to establish an irregular Academic Schedule for the 2022 Winter Term, with the applicable dates for the Juris Doctor, Master of Laws, and Master of Human Rights programs set out in the agenda.

### **Special Meeting on December 15, 2021**

THAT Senate Executive approve, on behalf of Senate, revisions to the 2021 – 2022 Academic Schedule for the programs listed below, effective upon approval:

- Master of Physician Assistant Studies, Max Rady College of Medicine
- Bachelor of Education, Faculty of Education
- Doctor of Pharmacy, College of Pharmacy
- Bachelor of Nursing, College of Nursing.

Respectfully submitted,

Dr. Michael Benarroch, Chair  
Senate Executive Committee

[Terms of Reference](#)

**Report of the Senate Committee on Curriculum and Course Changes on a proposal for Bachelor of Arts (Single Advanced Major) and Bachelor of Arts (Double Advanced Major) in German, Faculty of Arts**

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**Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. At its meeting on October 13, 2021, the SCCC considered a proposal from the Department of German and Slavic Studies, Faculty of Arts, to establish a Bachelor of Arts (Single Advanced Major) in German, including with a Co-operative Education Option, and a Bachelor of Arts (Double Advanced Major) in German.
3. The Faculty Council of the Faculty of Arts endorsed the proposal at its meeting on September 1, 2021.
4. The Senate Planning and Priorities Committee also considered the proposal at its meeting on September 27, 2021.

**Observations:**

1. The proposed Bachelor of Arts (Advanced) in German would be a four-year program that would require students to complete 120 credit hours of course work. Students would be able to complete either a B.A. (Single Advanced Major) or B.A. (Double Advanced Major) in German. Within the 120 credit hours, the Single Advanced Major, the Single Advanced Major with the Co-operative Education Option, and the Double Advanced Major would require 48, 45, and 42 credit hours of German (GRMN) courses, respectively. Other course requirements are outlined in section B-5 of the proposal.
2. The rationale for the proposal relates to giving students more options for completing a four-year German degree, based on their educational and employment goals. Currently, students’ only options for a four-year degree in German are the B.A. (Single Honours) and BA. (Double Honours) in German, which are either too rigorous and/or more specialized than some students require, particularly for students who do not intend to pursue post-graduate studies. The option to complete an Advanced Major degree would also make it feasible for students to transfer into a four-year degree from the B.A.(Gen.) in German, for students who make this decision later in their undergraduate studies. It would also be of interest to students who want to participate in travel study or international exchange opportunities, as there would be more space in the curriculum to transfer credits for courses completed abroad.
3. Introduction of a Single Advanced Major, with a Co-operative Education Option, specifically, would highlight, for students, the practical aspect of a language/culture program in German, and provide opportunities to obtain practical experience and skills that could benefit graduates in the job market. Introduction of a Double Advanced Major would give students flexibility to increase their breadth of studies, by pairing their German degree with a Double Advanced Major in another Humanities or Social Sciences discipline, and to acquire internationalization, intercultural, and linguistics skills,

- and cultural competencies that would prepare them for employment in a range of careers.
4. Establishment of the program would not require the introduction of any new courses. The programs would make use of existing courses, including advanced level courses already used in the Honours program.
  5. Projected enrolment for the first intake is two (2) students. The maximum seat capacity would be eight (8) students, although enrolment is not expected to reach maximum capacity.

**Recommendation:**

The Senate Committee on Curriculum and Course Changes recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Bachelor of Arts (Single Advanced Major) in German, including with a Co-operative Education Option, and a Bachelor of Arts (Double Advanced Major) in German, in the Faculty of Arts.**

Respectfully submitted,

Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

**Report of the Senate Planning and Priorities Committee on a proposal for a Bachelor of Arts (Single Advanced Major) and Bachelor of Arts (Double Advanced Major) in German, Faculty of Arts**

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**Preamble:**

1. The [terms of reference](#) of the Senate Planning and Priorities Committee (SPPC), which are found on the University Governance website, charge SPPC with making recommendations to Senate regarding proposed academic programs.
2. The Department of German and Slavic Studies, in the Faculty of Arts, currently offers a Bachelor of Arts (General), Bachelor of Arts (Single Honours), Bachelor of Arts (Double Honours), and a Minor in German. The Department previously offered an Advanced Major degree, but it was deleted through the Senate Committee on Curriculum and Course Changes and Senate in December 2004.
3. The Department is proposing to re-introduce the Advanced Major, including a Bachelor of Arts (Single Advanced Major) in German, including with a Co-operative Option, and a Bachelor of Arts (Double Advanced Major) in German. The SPPC considered the proposal at its meeting on September 27, 2021
4. The Faculty Council of the Faculty of Arts endorsed the proposal at its meeting on September 1, 2021.

**Observations:**

1. The proposed Bachelor of Arts (Single Advanced Major) and Bachelor of Arts (Double Advanced Major) degrees in German would be four-year programs that would require 120 credit hours of coursework. Within the 120 credit hours, the Single Advanced Major, the Single Advanced Major with the Co-operative Education Option, and the Double Advanced Major would require 48, 45, and 42 credit hours of German (GRMN) courses, respectively.
2. The rationale for the proposal relates to giving students more options for completing a four-year German degree, based on their educational and employment goals. The Honours degree, which is the only existing option for students wanting to complete a four-year degree in German, is either too rigorous and/or more specialized than some students require, particularly for students who might not intend to pursue post-graduate studies. The option to complete an Advanced Major degree would also make it feasible for students to transfer into a four-year degree from the B.A.(Gen.) in German, for students who make this decision later in their undergraduate studies. It would also be of interest to students who want to participate in travel study or international exchange opportunities, as there would be more space in the curriculum to transfer credits for courses completed abroad.

Introduction of a Single Advanced Major, with a Co-operative Education Option, specifically, would highlight, for students, the practical aspect of a language/culture program in German, and provide opportunities to obtain practical experience and skills that could be benefit graduates in the job market. Introduction of a Double Advanced Major would give students flexibility to increase their breadth of studies, by pairing their German degree with a Double Advanced Major in another Humanities or Social

- Sciences discipline, and to acquire internationalization, intercultural, and linguistics skills, and cultural competencies that would prepare them for employment in a range of careers.
3. Projected enrolment for the first intake is two (2) students. The maximum seat capacity would be eight (8) students, although enrolment is not expected to reach maximum capacity.
  4. No additional resources would be required to offer the programs, which would make use of existing courses, including advanced level courses already used in the Honours program. There is capacity in the courses to accommodate the modest enrolment anticipated for the Advanced Major Programs. The Department has sufficient teaching resources, with 4.5 FTE faculty members, including 2.00 FTE tenured faculty and 2.50 FTE Instructors. Any additional advising costs could be covered within existing resources.
  5. The total cost of delivering the program would be \$779,448 in Year 4. Revenue to support the program would be derived from the following sources (as of Year 4):
    - tuition, which would generate \$35,332, assuming an enrolment of 8 students;
    - existing resources in the Faculty (\$744,116).
  6. The program would be funded using existing Faculty resources and tuition revenue. Revenues identified in observation 5 would be allocated to the items indicated below (figures are for Year 4):
    - salary and benefits for existing academic staff (\$664,866), including 1.00 FTE Professor, 1.00 FTE Associate or Assistant Professors or Senior Instructors, and 2.50 Lecturers, Instructors, or Sessional Instructors;
    - salary and benefits for existing support staff, including 0.50 FTE Professional and Support Staff (\$37,326) and 0.35 FTE Indirect Staff (\$30,614);
    - operating expenses (\$9,910);
    - administrative overhead (\$35,332); and
    - student support (\$1,400).
  7. The University of Manitoba Libraries indicated that that its collections can support the new programs, with additional books the Libraries would purchase.
  8. On the basis of the SPPC's criteria for assigning priority to new programs / initiatives,<sup>1</sup> the Committee recommended that a high priority level be assigned to the proposal for a Bachelor of Arts (Single Advanced Major) and a Bachelor of Arts (Double Advanced Major) in German. The proposal is consistent with the University's strategic priorities for Inspiring Minds through innovative and quality teaching, Building Community that creates an outstanding learning and working environment, and Forging Connections to foster high impact community engagement.

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<sup>1</sup> [http://umanitoba.ca/admin/governance/media/SPPC\\_Assigning\\_Priorities\\_to\\_New\\_Programs-Initiatives.pdf](http://umanitoba.ca/admin/governance/media/SPPC_Assigning_Priorities_to_New_Programs-Initiatives.pdf)

**Recommendation:**

The Senate Planning and Priorities Committee recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Bachelor of Arts (Single Advanced Major) in German, including a Co-operative Education Option, and a Bachelor of Arts (Double Advanced Major) in German. The Senate Committee on Planning and Priorities recommends that the Provost and Vice-President (Academic) not implement the program until satisfied that there would be sufficient space and sufficient funding to support the ongoing operation of the program.**

Respectfully submitted,

Professor David Watt, Chair  
Senate Planning and Priorities Committee

**NEW PROGRAM OF STUDY**

Under The Advanced Education Administration Act

Universities and colleges requesting approval for a **new** program of study from Education and Training must apply using this application form. This form reflects the requirements set out in the Programs of Study Regulation (MR 134/2015) under The Advanced Education Administration Act.

**UM INTERNAL REQUIREMENTS:**

1. Following unit approval\* please submit the complete proposal electronically (.pdf single file) to both the Office of the Provost & Vice-President (Academic) and, for:
  - Undergraduate Programs:** Office of the University Secretary (for Senate submission deadlines visit <http://umanitoba.ca/admin/governance/meetings/index.html>. Please also submit a **hard copy** version to the Office of the Secretary to their office as well.
  - Graduate Programs:** Faculty of Graduate Studies (for timelines visit [http://umanitoba.ca/faculties/graduate\\_studies/admin/program\\_approval\\_timeline.html](http://umanitoba.ca/faculties/graduate_studies/admin/program_approval_timeline.html).
  - ALL Programs:** as preparation for submission to MET, please submit a .docx file of the proposal, an .xlsx file of the Financial Support Form and a .pdf file of all other supporting documents (letters of support, external reviews, etc.). Please date stamp these files for ease of tracking should any changes result from the Senate approval process and submit directly to the Provost's Office.
2. Along with the information requested in the proposal template, please **append** details on the following:
  - a) **MET /SPPC Financial Support Form** [available through the Office of the Provost & Vice-President (Academic)]  
This form requires the signature of the Financial Planning Office. Please contact Giselle Martel, Executive Director, Financial Planning and Budgeting, for direction on completion of the form. Approval of the financial support form does not signify approval of any funding requests, either internally or from the province. Confirmation of resource availability and allocation of any new funds will be determined by the Provost at time of implementation.
  - b) **Admission and/or transfer criteria** for the proposed program.
  - c) **Course details** for required coursework, including title, course number, credit hours and calendar description. Highlight any proposed new courses and attach:
    - Undergraduate Programs:* for SCCCC Program and Course Change forms, as applicable, visit <http://umanitoba.ca/admin/governance/forms/index.html>
    - Graduate Programs:* for course change forms visit [http://umanitoba.ca/faculties/graduate\\_studies/admin/course\\_changes.html](http://umanitoba.ca/faculties/graduate_studies/admin/course_changes.html)
  - d) Any **new academic regulations** for the program that are not currently addressed in existing faculty/college/school requirements.
  - e) **Letters of support** from internal units that may be impacted by the proposed new program and any external letters of support as outlined below.
  - f) **Library statement** of support.
  - g) Where applicable, a **transition plan** for current students entering the new program.
3. Please direct questions to Cassandra Davidson, Academic Programs Specialist, at [Cassandra.Davidson@umanitoba.ca](mailto:Cassandra.Davidson@umanitoba.ca) in the Office of the Provost and Vice-President (Academic).


**University  
of Manitoba**

\*Note: the complete proposal, including all appendices, and associated program and course forms, should be submitted to departmental (as appropriate) and faculty/college/school approving bodies for review and approval, prior to submission to the Office of the University Secretary.

*Revised December 10, 2017*

*Revised October 18, 2017.*

**SECTION A – PROPOSAL DETAILS**

Institution: **UNIVERSITY OF MANITOBA**

Applicable faculties/department with responsibility for the program: German & Slavic Studies, Arts

If program is a joint program, list all participating institutions and the roles of each in delivering the proposed program:  
N/A

Program name: Advanced Major in German

Credential awarded: B.A. Advanced

Funding request: N/A - no new costs involved

*Office Use Only*

One-time funding:
On-going funding: _____

Proposed start date: September 2022

List any critical issues that may impact the start date of the program: N/A

**UM INTERNAL REQUIREMENT:** Name of Person(s) responsible for the Program internally (please include contact information):

Dr. Stephan Jaeger, Department Head, Department of German and Slavic Studies, University of Manitoba,  
[stephan.jaeger@umanitoba.ca](mailto:stephan.jaeger@umanitoba.ca), (204) 474-9930



**B-1 Provide a general description of the program and its objectives:** *(Include intended purpose, curriculum design, and highlight distinctive attributes)*

The Department of German and Slavic Studies currently offers the following degree programs in German at the undergraduate level: a three-year General Major, a four-year Single Honours Major, along with a Single Honours with a co-operative option, a Double Honours Major and a Minor. We also offer an M.A. in German.

In 2003-2004, the Department of German & Slavic Studies deleted the Advanced Major Programs in German. While this was in response to resource pressures at the time, the move proved premature. Student demand for a four-year undergraduate program in German has remained, but it can currently only be satisfied by streaming students into the more rigorous four-year Honours program. This denies a four-year degree to students who for various reasons, have not obtained a certain GPA or who do not seek the specialized focus required of an Honours student.

We are proposing to add a course-based Single Advanced Major and Double Advanced Major program, the Single Advanced Major in addition with a co-operative option. Like the Single and Double Honours program, this will be a four-year program that, however, requires less course work and provides more flexibility to students who want to go abroad, decide late in their undergraduate in favor of a four-year degree, and who want to double major in two subject fields.

In addition, the (re-)introduction of the Double Advanced Major will allow German majors to pair up their degree with any other program that offers the Double Advanced Major, which currently includes most other language and subject area programs. Language and foreign culture programs are much more sustainable when they can be offered as a complementary ‘double major’ to students interested in taking other subjects. Many students and employers understand the substantial value added of an employee with foreign language skills and cultural competency.

The gained flexibility for students will also allow them to specialize beyond basic knowledge of German language and culture in courses that allow students to gain in-depth skills needed in today’s job market. The program offers a number of courses with experiential and immersive elements of learning that help students beyond their academic studies with future employers. It specializes in courses in interdisciplinary German Studies that go beyond the traditional literary canon that connect students to a wide range of current topics and skill-sets, for example regarding themes of social justice, memory, intercultural understanding, environment in culture, media and communication themes, among others. It is the only German program with this breath and depth in Manitoba.

The co-op option further highlights the practical aspect of a language/culture program in the Humanities and responds to the demands of students who choose a work-oriented approach to their studies. It also allows students to develop meaningful skills that will make them stand out on the job market after graduation.

Finally, students who take advantage of travel study opportunities to Germany (or any other international exchange partner offering German) would be able to bring more of the course credits taken abroad back into the Advanced Major program than they can with either the General Major or the Honours program. This will attract more students to exchanges as this means the possibility of more productive exchange experiences for students who go abroad for a term or year of study, and more timely progress to completion of their degrees.

There are no resource implications for either program. There are sufficient courses with sufficient space to cover all program requirements with existing course offerings and staff.

We have surveyed our students with General Majors and with Minors (and Majors or Advanced Majors in another Arts subjects) and believe this new program will be very appealing to students who want to do a four-year degree or want to add a double-advanced major in a language/culture program to a specialization in another subject.

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**B-2 Length of Program:** *(Define the length of the proposed program using measures appropriate to the schedule and delivery format. This will include total course credits and weeks/months, and, where relevant, hours and semesters of instruction)*

The proposed course-based Advanced Major program in German is a four-year 120 credit hour program. The Single Advanced Major will involve 48 credit hours of coursework in German, 6 credit hours less than the minimum of 54 hours required for the Single Honours program. Unlike in the Single Honours program no specialized 4000 level-courses (defined as Honours courses in the Faculty of Arts) and no Honours Thesis are required, though students of the Advanced Major program will have the choice to take courses on the 4000 level. The Single Advanced Major with co-operative option will involve 45 credit hours of coursework in German. For the Double Advanced Major in German, students will be required to take 42 credit hours of coursework.

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**B-3 Intended outcomes of the program:**

B-3.1 Describe how this program serves and advances the academic, cultural, social and economic needs and interests of students and the province:

An Advanced Single and Double Major in German serves the academic needs and interests of German majors at the University of Manitoba by offering them more options in terms of programs. Students who opt for the Advanced Major can market themselves through their four-year degree to graduate schools (which is not possible with a three-year degree) and potential employers as having received a more in-depth education with substantial academic and experiential engagement (going considerably beyond the basic language and survey culture skills that make up most of their classes in a General B.A. program). The increased flexibility to combine Advanced Majors allows students to gain experience in internationalization and intercultural skills, specific linguistic skills and cultural competency, adding to the expertise from their other Major in the Humanities or Social Sciences. The increased flexibility for study-abroad program (one of the strengths of the Department of German and Slavic Studies) and the co-operative option will both allow students more options and make them better prepared for a future career.

Many German majors, who want to go on to graduate school, do not necessarily aim for an M.A. or PhD in German but for an interdisciplinary program such as European Studies, Human Rights Studies, Migration Studies, Museum and Memory Studies, Genocide Studies among many others. A four-year degree such as the Advanced Major in German will have them much better prepared and strengthen their applications and their chances of gaining admission.

B-3.2 Describe the existing and anticipated post-secondary learning needs of students in Manitoba that this program addresses and responds to:

This program addresses the needs of German majors who would like to receive a more in-depth education and training in the German language and in German Cultural Studies, whether they are going on to pursue graduate studies or to enter the labour market. Given that almost all B.A. programs in German in other provinces are

four-year programs with considerable more credit-hours than the requirements in the three-year General B.A., this program can help to attract and retain students and prepare them better in comparison to students with out-of-province degrees.

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#### **B-4 Mode of Delivery**

B-4.1 Provide the total program length through **one** of the following measures:

48 Total credit hours in German (for the Single Advanced Major; 45 credit hours for the Single Advanced Major with Co-operative Option, and 42 credit hours for the Double Advanced Major), 120 credit hours total for all degree options.

Total credit hours

Total contact hours

Total courses

B-4.2 What proportion of the total program length (as indicated above) can be completed through the two following modes of delivery? *(Note that one or both selections can be offered up to the total program length.)*

**Courses in German program:** Currently all courses in the German program are offered in-person (100% as Remote Learning since the beginning of the COVID-19 pandemic in March 2020). The Department/German program plans to revisit its course-offerings after the pandemic. Considering the experiences from Remote Learning Teaching, we will review whether selected courses as Remote Learning (with synchronous online meetings) or Distance Education (mainly a-synchronous) courses can supplement the in-person program for students. There will be no limit on the number of credit hours that can be completed online

**Courses outside of German program:** There will be no limit on the number of credit hours that can be completed online. Students will be able to complete as many online course offerings (including required and elective courses) as are available.

In-person

Online

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**B-5 Provide an overview of the suggested progression of courses on a year-by-year basis for the program from start to maturity.** *(Course level detail is not necessary, however, please include credit hours/contract hours, proportion of upper level courses, clinical placements or practicums, or subject area requirements where applicable)*

**Single Advanced Major** (the Double Advanced Major requires 6 credit hours in German less, usually changing the number of credit hours in years 3 and 4; the Single Advanced Major Cooperative Option requires 3 credit hours less in German, usually changing year 4)

In year one, students will complete 30 hours of courses, 6 hours of which will be Introductory level German (GRMN 1120: Beginning German). Students with superior language ability will – instead – second or third year German (GRMN 2100 or GRMN 3200, depending on their ability).

In year two, students will complete 30 hours of courses, 12 hours of which will be in German, usually 6 credit of Intermediate German (GRMN 2100) and 6 credit hours in German cultural studies courses. This includes a survey course either on German Culture before 1918 (GRMN 2130) or on German Culture from 1918 to the Present (GRMN 2120).

In year three, students will complete 30 hours of courses, 15 hours of which will be in German, usually 6 credit of Advanced German (GRMN 3200 = Deutsche Sprachpraxis 1) and 9 credit hours in German contents courses (from the fields of Literature, Culture and Applied Linguistics). This includes their first contents course conducted in German (GRMN 2140: Exploring German Literature) and at least one course from German Cultural Studies on the 3000 level.

In year four, students will complete 30 hours of courses, 15 hours of which will be in German. This includes at least 6 courses on the 3000 level or above. It also includes 6 credit hours of contents courses (from the fields of Literature, Culture and Applied Linguistics) conducted in the German language. At this level, students might also take upper advanced German language courses (max. 6 credit hours) that go beyond the required level of third-year advanced German.

**UM INTERNAL REQUIREMENT:** please complete the chart below to provide an overview of suggested progression through the program (indicate pre-requisites and related credit hours). Outline options for specializations within this program [minor(s) and/or concentration(s)].

**German, B.A. Single Advanced Major (including Co-operative Education Option if selected)**

Years 1-4	Hours
48 credit hours of German (of which at least 15 credit hours must be German courses numbered at or above the 3000 level and an additional 21 credit hours at or above the 2000 level) to include:	48
GRMN 1120      Beginning German (A) <sup>1,2</sup>	
GRMN 2100      Intermediate German (A) <sup>1,2,3</sup>	
GRMN 2120      Introduction to German Culture from 1918 to the Present (C) or GRMN 2130      or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140      Exploring German Literature (B) or GRMN 2480      or Special Topics in German (B)	
GRMN 3200      Deutsche Sprachpraxis 1 (A) <sup>2,3</sup>	
Within the required credit hours in German, 9 credit hours must be from Category B courses and a further 15 credit hours must be from Category B or C courses	
18 credit hours from your Minor area of study as described in that unit's section of the calendar	18
42 credit hours from outside of your Major and Minor areas of study	42
12 credit hours of open electives	12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Total Hours</b>	<b>120</b>

## CO-OPERATIVE EDUCATION OPTION

Years 3-4		Hours
If the Co-operative Education Option is selected, time to completion will be extended by 12 months and the following three, 1 credit hour work term courses will count toward the open elective credit required in this program:		
ARTS 3010	Arts Co-operative Option 1	1
ARTS 3020	Arts Co-operative Option 2	1
ARTS 3030	Arts Co-operative Option 3	1
<b>Total Hours</b>		<b>3</b>

<sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.

<sup>2</sup> 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".

<sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".

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

**While completing the courses listed above, students in the B.A. Advanced Degree must satisfy the University's Written English (W) and Mathematics (M) requirements, plus the following Faculty requirements in order to graduate:**

Ten Faculty Requirements for Graduating with a B.A. Advanced Degree

1. A student must successfully complete a minimum of 120 credit hours from among the courses acceptable for credit in the Faculty of Arts, with a "C" average or better on the courses that contribute to satisfying all of the B.A. Advanced Degree requirements.

**The minimum 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, at least six credit hours from the list of courses that satisfy the Science requirement, and at least three credit hours from the list of courses that satisfy the Indigenous Content requirement.
3. At least six credit hours completed in each of five different subject fields. A subject field may also satisfy other Bachelor of Arts requirements such as Humanities, or Social Sciences, or Sciences, or Indigenous Content, 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. The student must have a minimum “C” average in courses where a final grade is recorded that are used toward the Major including only the higher 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 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. The student must have a minimum "C" average in courses where a final grade is recorded that are used toward each Major including only the higher 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. Please refer to department listings and other courses offered in faculties and schools.

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. 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), 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 Residency Requirement).

## German, B.A. Double Advanced Major

Years 1-4	Hours
42 credit hours of German (of which at least 12 credit hours must be German courses numbered at or above the 3000 level and an additional 18 credit hours at or above the 2000 level) to include:	42
GRMN 1120      Beginning German (A) <sup>1,2</sup>	
GRMN 2100      Intermediate German (A) <sup>1,2,3</sup>	
GRMN 2120      Introduction to German Culture from 1918 to the Present (C) or GRMN 2130      or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140      Exploring German Literature (B) or GRMN 2480      or Special Topics in German (B)	
GRMN 3200      Deutsche Sprachpraxis 1 (A) <sup>2,3</sup>	
Within the required credit hours in German, 6 credit hours must be from Category B courses and a further 12 credit hours must be from Category B or C courses	
42 credit hours in the second Advanced Major subject field as described in that unit's section of the calendar	42
36 credit hours from outside both Advanced Major subject fields	36
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation	
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.

<sup>2</sup> 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".

<sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".

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

**While completing the courses listed above, students in the B.A. Advanced Degree must satisfy the University's Written English (W) and Mathematics (M) requirements, plus the following Faculty requirements in order to graduate:**

Ten Faculty Requirements for Graduating with a B.A. Advanced Degree

1. A student must successfully complete a minimum of 120 credit hours from among the courses acceptable for credit in the Faculty of Arts, with a "C" average or better on the courses that contribute to satisfying all of the B.A. Advanced Degree requirements.

**The minimum 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, at least six credit hours from the list of courses that satisfy the Science requirement, and at least three credit hours from the list of courses that satisfy the Indigenous Content requirement.
3. At least six credit hours completed in each of five different subject fields. A subject field may also satisfy other Bachelor of Arts requirements such as Humanities, or Social Sciences, or Sciences, or Indigenous Content, 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. The student must have a minimum "C" average in courses where a final grade is recorded that are used toward the Major including only the higher 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 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. The student must have a minimum "C" average in courses where a final grade is recorded that are used toward each Major including only the higher 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. Please refer to department listings and other courses offered in faculties and schools.

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. 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), 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 [Residency Requirement](#)).

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**B-6 Will the program be available for part-time study?**

Yes, this program will be available for part-time study.

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**B-7 Indicate if this program will have a cooperative education, work placement, internship or practicum component and provide any relevant details:**

Yes, it does. A year ago (starting September 2021), we introduced a co-operative education component for the Single Honours Program in German; and the Single Advanced Major in German will have the same COOP option.

Introducing the co-op option for single four-year programs in German gives students the opportunity to gather valuable work experience during their studies in a wide variety of places of employment without changing the total credit hours. German is a particularly suited program because of the already existing close ties to the German-Canadian community in Manitoba, the Manitoba school system and because of numerous international contacts and organizations like the German DAAD (and equivalents in Austria and Switzerland) that facilitate work programs; introducing the co-op option will utilize these ties for our students and strengthen them even

further. The co-op option further highlights the practical aspect of programs in the Faculty of Arts and responds to the demands of students who choose a work-oriented approach to their studies. It also allows students to develop meaningful skills that will make them stand out on the job market after graduation. Lastly, the practical aspect of the co-op option might be an incentive for students who previously had not considered an Arts/Humanities program and could potentially increase the number of four-year degree students (Advanced Major or Honours) in German.

**B-8 Intake Information**

B-8.1 Projected enrolment for the first intake: 1 student at the first year level and 1 student in year two or above who wish to move from the general Major to the Advanced Major

B-8.2 Maximum seat capacity (*Defined as first-year enrolment capacity*): 8 (it is not expected to fill up to capacity)

B-8.3 Anticipated date of maturity: by year 4

**UM INTERNAL REQUIREMENT:** please indicate the projected enrolment and graduates for the first 5 years of the program.

	Year 1	Year 2	Year 3	Year 4	Year 5
Enrolments	2	4	6	6-8	8
Graduates		1	2	5	6-8

**C-1 Describe how this new program aligns with the strategic plans of your institution:**

This program aligns with several of the five strategic priorities identified for the University of Manitoba in the Strategic Plan for 2015-20. First of all, it relates to the “Inspiring Mind” category: In particular, it sets out to ensure an outstanding educational experience for undergraduate students by supporting a range of liberal arts programs, to provide students with flexible learning opportunities, to increase opportunities for experiential learning, and to enhance student mobility. Among others, the program also links with “building community that creates an outstanding learning and working environment” and “forging connections to foster high impact community engagement.” The new Advanced Major programs will help to optimize our students’ experience as undergraduate students.

**C-2 Outline the internal approval process (i.e. committees, governing bodies) for approving this new program of study within your institution and indicate any dates of decision.** *(Governing Council, Board of Governors, Board of Regents, Senate, other)*

**UM INTERNAL REQUIREMENTS:** Please note date(s) of Faculty/College/School Approval. Approval dates through the governing bodies will be inserted by the Provost’s Office prior to submission to government.

**UM Undergraduate Programs:**

<u>Decision-Making Body</u>	<u>Date of Approval</u>
Faculty/College/School	_____
SCCC	_____
SPPC	_____
SCADM <i>(if applicable)</i>	_____
SCIE <i>(if applicable)</i>	_____
Senate Executive	_____
Senate	_____
Board of Governors	_____

**UM Graduate Programs:**

<u>Decision-Making Body</u>	<u>Date of Approval</u>
APC <i>(preliminary review)</i>	_____
External Review	_____
APC	_____
FGS Executive	_____
FGS Faculty Council	_____
SPPC	_____
Senate Executive	_____
Senate	_____
Board of Governors	_____

**C-3 Responsibility to consult**

C-3.1 If this program subject to mandatory review or approval by organizations external to the institution *(such as regulatory bodies, Apprenticeship Manitoba, etc.)*, please describe any consultation processes and provide copies of reports or letter from these organizations providing support:

N/A

c-3.2 What agencies, groups, or institutions have been consulted regarding the development of this program?

*Note: this includes any consultation with internal UM units, academic or otherwise.*

We had discussions with the German community in Winnipeg and Manitoba, including the German-Canadian Congress, Manitoba Branch, which expressed strong interest in having more Majors with a four-year degree in German entering the labor market.

c-3.3 How have students and faculty been informed of the intent to establish this program?

Undergraduate students in German have been consulted via their student group, the German Student Association. Faculty members in German Studies have been involved in discussions for the last three years, and we have had substantial individual discussions with our own undergraduate students (specifically General Major and Minor students, as well as Honours students), which showed considerable interest in the more flexible options of the Advanced German Major.

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**C-4 List any similar programs offered in Manitoba:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

*Note: this includes any programs currently offered at UM.*

The University of Winnipeg has offered a small single four-year Major program in German for decades, which is, however, quite different in scope and content. Most importantly, it does not have the interdisciplinary and experiential German Studies profile that the University of Manitoba German program offers. The difference between the two programs is evident by the comparison of the program requirements: a four-year degree student at the UW only needs second-year language courses to fulfill the degree requirement and exactly one 3000-level course. There are also no offerings of content-oriented culture or literature courses conducted in the German language at the University of Winnipeg. All of these conditions are requirements if students want to successfully continue Graduate studies work in German in Canada or internationally.

The University of Winnipeg also do not have any COOP options, Honours or Graduate degrees in German; so the experiential focus of the German Advanced Major at the University of Manitoba will be unique in the Province. The four-year Major students at the University of Winnipeg often make use of courses offered at the University of Manitoba, so that both programs would continue to benefit from each other.

The University of Manitoba already offers a four-year Single Honours Major, along with a Single Honours with a co-operative option, and a four Double Honours degree in German. The new Advanced programs fit in-between the existing options of General Major and Honours program to offer more flexibility and choice for undergraduate students pursuing a German degree. More students will also have the option to pursue graduate education in German Studies or related interdisciplinary fields in Manitoba or elsewhere.

c-4.1 Describe any specific laddering, articulation and/or credit transfer options for students that are anticipated in this program in Manitoba.

The University of Manitoba and the University of Winnipeg have an agreement to recognize each other's credit hours and co-operate in their annual programming to alert students to options at both universities and avoid doubling of any advanced courses.

---

**C-5 List any similar programs offered in Canada:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

Most universities with a German Major are four-year programs General B.A. programs that would be equivalent to an Advanced Major in Manitoba. Consequently, re-introducing the Advanced Major will make University of Manitoba students more competitive Canada-wide. Therefore, an Advanced Major program at the University of Manitoba will bring our department in line with other Canadian German programs and put our students who want to pursue post-graduate education on an equal footing with their counterparts graduating from other universities across Canada.

Only the University of Toronto, the University of Waterloo, Acadia University and the University of Victoria offer different forms of COOP programs; with the exception of the University of Victoria, the option will be new in Western Canada.

Comprehensive list of all programs offering a four-major degree in German across Canada (outside of Manitoba, from East to West)

Memorial University of Newfoundland

Dalhousie University

Acadia University

Bishops University

Université de Montréal

McGill University

York University

University of Toronto

Windsor University

University of Waterloo

University of Western Ontario

University of Alberta

University of Calgary

University of British Columbia

University of Victoria

c-5.1 Describe any specific laddering, articulation and/or credit transfer options for students that are anticipated in this program in Canada.

N/A (Canadian German Studies departments/sections cooperate closely so that credit transfers are very straightforward, if a student transfers or wants to take a class as visiting student elsewhere.)

---

**C-6 Describe the current and projected labour market demands in Manitoba for graduates of this Program:**

*(Provide such information as probable employment destinations or further educational opportunities available to graduates of this new program of study. Attach any formal reports such as those from Associations, Statistics Canada, Sector Councils, Industry or Regulators.)*

Recent studies have shown that the labor market welcomes graduates from the Humanities for a number of skillsets including cultural competency, critical thinking, problem solving, communication and teamwork, empathy and ethical thinking. A foreign language and culture program adds specific linguistic and intercultural skillsets, as well as international and other experiential learning experiences. This makes graduates that have an Advanced Major German degree as their first or as second supplementary degree attractive for a wide variety of sectors such as Culture, Media, Immigration, Communication, Politics, Global Public Relations, Administration, Education, Public Memory and Museums, and others.

---

**C-7 If copies of any internal or peer evaluations with respect to this new program of study are being provided with this proposal, please indicated how any issues identified by these evaluations have been addressed and attach any relevant documents as available:**

N/A

## SECTION D – REQUIRED RESOURCES AND FINANCIAL IMPLICATIONS

**D-1 If one-time or pilot funding are being requested to support this new program of study, please identify the amount of funding being requested:**

N/A No funding is needed for support of the new programs, since they are situated between existing programs and will not lead to increases in the number of German courses offered per year.

---

**D-2 If ongoing funding being requested to support this new program of study, please identify the amount of funding being requested:**

N/A

---

**D-3 If new funding is not being requested, how will the program be funded?**

N/A The program can be taught through existing resources and course offerings, since the Department already offers higher Honours degree options in German. Currently offered upper level German classes have capacity, so that the modest number of students expected to take up the new programs can be fully covered through existing offerings.

---

**D-4 List any external sources of funding that will be used to support the implementation or delivery of this new program of study:** *(Provide such information as agreements for funding from industry or external grants and indicate the anticipated length of time for each agreement.)*

N/A

---

**D-5 What are the resource implications to the institution (budget, IT, library, laboratory, computer, space, practicum liability insurance, student services, etc) in delivering this new program of study?**

N/A The program can be run with existing courses and the University of Manitoba already offers Honours programs and an M.A. in German so that library resources are sufficient for more advanced programs. There might be some advising costs but with the small number of students expected they can be covered within existing resources.

---

**D-6 Please describe new and existing staffing resources needed to provide this new program of study.** *Include reallocation of existing faculty, hiring of new faculty, administrative and support services and any other considerations.*

The German program currently has 4.5 FTE (2 professorial stream, 1.5 language instructors, 1 language and culture instructor). To offer our programs, including the new Advanced Major as well as the Honours and M.A. program, German needs a minimum Faculty complement of 4 FTE. The Department of German & Slavic Studies has currently 1.8 FTE (1.0 Administrative Assistant AA1; 0.8 Office Assistant OA3), shared with the Department of Religion. The new programs require no resources in non-teaching staff positions in the unit.

**D-7 Provide a program implementation plan for the new program of study by academic year (start to maturity) that includes any elements to be phased in (e.g., new faculty hires, distribution of existing faculty and support staff) from launch to maturity:**

The introduction of the Advanced Major program does not lead to any new needs or costs. There are no needs in sessional teaching, since no extra courses are needed. There are no extra costs for advising on the unit level, since the advising can be covered as part of the regular duties by faculty members in the program (thus, no releases / annual course load reductions are needed to run the program).

Year 1 N/A

Year 2 N/A

Year 3 N/A

Year 4 N/A

---

**D-8 Please describe the effect of this new program on existing capital infrastructure and equipment:**

N/A

---

**D-9 If capital funding is being requested to support additional specialized program materials such as infrastructure or equipment required to provide this new program of study, please provide a detailed description of the use of this capital:**

N/A



## SECTION E– TUITION

### **E-1 What are the proposed tuition fees?**

Students will be assessed the per credit hour tuition rate of the teaching unit for each course. Students will be assessed the approved Faculty of Arts credit hour rate for the German-specific courses.

---

**E-2 Please provide a rationale for the tuition fee proposed.** *(For example, are these tuition fees comparable to tuition for existing programs within the academic unit or to tuition for similar programs offered at other institutions?)*

N/A

---

### **E-3 Please describe any additional fees that would apply to a student in this program?**

**UM INTERNAL REQUIREMENTS:** Please note any new course-fees proposed in support of this program. Please provide a rationale for any new fees. Are these fees comparable to fees for existing programs within the academic unit or for similar programs offered at other institutions?

No new fees are being introduced as part of this proposal. Students will be assessed the general university and faculty fees that apply to all undergraduate students in the Faculty of Arts.

---

### **E-4 Please describe any specific supports to encourage affordability and accessibility to the program:**

The Department continues to work on fundraising for the new German Studies Prize (targeted at German Majors) via the German Endowment Fund. The Department also has made student support available through awards/scholarships, as well as through additional teaching assistant and research assistant positions, the most important priority of its annual Department budget.

---

**SECTION F – SIGNATURES**

*(A second signature section is provided for joint programs only)*

**SUBMITTED BY:**

***President:***

*Name:*

*Signature:*

*Date:*

***Vice-President/Academic:***

*Name:*

*Signature:*

*Date:*

*For use by joint programs only:*

***President:***

*Name:*

*Signature:*

*Date:*

***Vice-President/Academic:***

*Name:*

*Signature:*

*Date:*

**SUBMIT COMPLETED FORM**

**PROVOST'S OFFICE ONLY** Once completed and signed, please submit this application form to Post-Secondary Education and Labour Market Outcomes at PSE-LMO@gov.mb.ca with the following attachments *(double-click to engage check box)*:

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Cover letter  |
| <input type="checkbox"/> | Program of Study Financial Form   |
| <input type="checkbox"/> | Any supporting documentation <i>(reviews, letters of support, etc.)</i> |

**If you have any questions or require further information, please contact:**

Post-Secondary Education and Labour Market Outcomes  
Manitoba Education and Training  
400-800 Portage Avenue Winnipeg MB R3C 0C4  
(204) 945-1833  
PSE-LMO@gov.mb.ca



**Post-Secondary Education and Labour Market Outcomes  
Program Proposal Financial Form**

**Form Instructions:**

1. When proposing a new program *Current Fiscal Year* (the first column) should be left blank, with the first year of the program starting in year 1.
2. When proposing a new program expansion *Current Fiscal* should be entered in the first column.
3. If a program reaches maturity prior to *Fiscal Year 4*, remaining fiscal year columns must still be completed so that *Ongoing Program Funding* can be calculated.
4. Fill in line items for revenue, expenditure, and capital as these pertain to the program. Examples are correspondently listed to the right of the table.
5. Ensure that line items account for overhead. For example, include the amount of tuition that the program will receive after administrative overhead.
6. Only fill out areas shaded in green, using cash accounting. The increment, on-going and total will self-populate accordingly.

Overview	
<b>Institution:</b>	University of Manitoba
<b>Program Name:</b>	German & Slavic Studies, Faculty of Arts
<b>Contact Information:</b>	
<b>Date:</b>	

	Current Fiscal Year	Fiscal Year 1	Increment	Fiscal Year 2	Increment	Fiscal Year 3	Increment	Fiscal Year 4	Increment	Ongoing Program Funding
	(Enter 0's if new program)	Budget Yr. 1	(change from current year to year 1)	Budget Yr. 2	(change from year 1 to year 2)	Budget Yr. 3	(change from year 2 to year 3)	Budget Yr. 4	(change from year 3 to year 4)	
<b>REVENUE INFORMATON</b>										
Contribution from Institution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tuition	\$ -	\$ 7,909	\$ 7,909	\$ 16,412	\$ 8,503	\$ 25,541	\$ 9,129	\$ 35,332	\$ 9,791	\$ 35,332
Student Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution from Unit (Existing Resources)	\$ -	\$ 672,259	\$ 672,259	\$ 695,392	\$ 23,133	\$ 719,335	\$ 23,943	\$ 744,116	\$ 24,781	\$ 744,116
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
<b>Total Revenue (A)</b>	\$ -	\$ 680,169	\$ 680,169	\$ 711,804	\$ 31,636	\$ 744,876	\$ 33,072	\$ 779,448	\$ 34,572	\$ 779,448

MEDT Form

<b>Institution:</b>	University of Manitoba
<b>Program Name:</b>	German & Slavic Studies, Faculty of Arts
<b>Contact Information:</b>	
<b>Date:</b>	

	Current Fiscal Year	Fiscal Year 1	Increment	Fiscal Year 2	Increment	Fiscal Year 3	Increment	Fiscal Year 4	Increment	Ongoing Program Funding
	(Enter 0's if new program)	Budget Yr. 1	(change from current year to year 1)	Budget Yr. 2	(change from year 1 to year 2)	Budget Yr. 3	(change from year 2 to year 3)	Budget Yr. 4	(change from year 3 to year 4)	
<b>EXPENDITURE INFORMATON</b>										
New Academic Salaries - Direct	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Academic Salaries - Direct		\$ 599,671	\$ 599,671	\$ 620,660	\$ 20,988	\$ 642,383	\$ 21,723	\$ 664,866	\$ 22,483	\$ 664,866
New Professional/Support Salaries - Direct		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Professional/Support Salaries - Direct		\$ 33,666	\$ 33,666	\$ 34,844	\$ 1,178	\$ 36,064	\$ 1,220	\$ 37,326	\$ 1,262	\$ 37,326
Operating Expenses		\$ 9,910	\$ 9,910	\$ 9,910	\$ -	\$ 9,910	\$ -	\$ 9,910	\$ -	\$ 9,910
Student Support		\$ 1,400	\$ 1,400	\$ 1,400	\$ -	\$ 1,400	\$ -	\$ 1,400	\$ -	\$ 1,400
Indirect Salary Expenses		\$ 27,612	\$ 27,612	\$ 28,578	\$ 966	\$ 29,579	\$ 1,000	\$ 30,614	\$ 1,035	\$ 30,614
Administrative Overhead		\$ 7,909	\$ 7,909	\$ 16,412	\$ 8,503	\$ 25,541	\$ 9,129	\$ 35,332	\$ 9,791	\$ 35,332
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
<b>Total Expenditures (B)</b>	\$ -	\$ 680,169	\$ 680,169	\$ 711,804	\$ 31,636	\$ 744,876	\$ 33,072	\$ 779,448	\$ 34,572	\$ 779,448

MEDT Form

<b>Institution:</b>	University of Manitoba									
<b>Program Name:</b>	German & Slavic Studies, Faculty of Arts									
<b>Contact Information:</b>										
<b>Date:</b>										
	<b>Current Fiscal Year</b>	<b>Fiscal Year 1</b>	<b>Increment</b>	<b>Fiscal Year 2</b>	<b>Increment</b>	<b>Fiscal Year 3</b>	<b>Increment</b>	<b>Fiscal Year 4</b>	<b>Increment</b>	<b>Ongoing Program Funding</b>
	(Enter 0's if new program)	Budget Yr. 1	(change from current year to year 1)	Budget Yr. 2	(change from year 1 to year 2)	Budget Yr. 3	(change from year 2 to year 3)	Budget Yr. 4	(change from year 3 to year 4)	
<b>CAPITAL INFORMATON</b>										
Major Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vehicles	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Renovations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Furniture	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
<b>Total Capital (C)</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Revenue less Expenditures and Capital (A-(B+C))</b>	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ -	\$ (0)	\$ -	\$ 0	\$ -
<b>Funding Request</b>		\$ -		\$ -		\$ -		\$ -		

**SENATE PLANNING AND PRIORITY COMMITTEE (SPPC)  
New Program Approval - Financial Form**

**FACULTY / SCHOOL** Faculty of Arts  
**PROGRAM** German & Slavic Studies

<b>1. STAFFING REQUIREMENTS (FTE)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
New Academic Positions (FTE) (Appendix A)	-	-	-	-	-
New Professional and Support Positions (FTE) (Appendix A)	-	-	-	-	-
New Indirect Staff (FTE) (Appendix A)	-	-	-	-	-
<b>Subtotal Staffing Requirements (FTE)</b>	-	-	-	-	-

**2. PROGRAM COSTS**

**Direct Program Costs**

New Academic Salaries (incl bpl) (Appendix A)	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Academic Salaries (incl bpl) (Appendix A)	599,671	620,660	642,383	664,866	688,136
New Professional/Support Salaries (incl bpl) (Appendix A)	-	-	-	-	-
Existing Professional/Support Salaries (incl bpl) (Appendix A)	33,666	34,844	36,064	37,326	38,633
Operating Expenses (Appendix B)	9,910	9,910	9,910	9,910	9,910
Student (Graduate/Undergraduate) Support (Appendix C)	1,400	1,400	1,400	1,400	1,400
Major Equipment (Appendix D)	-	-	-	-	-
Vehicles (Appendix D)	-	-	-	-	-
Renovations (Appendix D)	-	-	-	-	-
Furniture (Appendix D)	-	-	-	-	-
Other Capital (Appendix D)	-	-	-	-	-
<b>Subtotal Direct Program Costs</b>	\$ 644,647	\$ 666,814	\$ 689,757	\$ 713,502	\$ 738,079

**Indirect Program Costs**

New Indirect Salary Expenses (incl bpl) (Appendix A)	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Indirect Salary Expenses (incl bpl) (Appendix A)	27,612	28,578	29,579	30,614	31,685
Tax on Grant and Tuition Revenue	-	-	-	-	-
Administrative Overhead	-	-	-	-	-
<b>Subtotal Indirect Program Costs</b>	<b>\$ 27,612</b>	<b>\$ 28,578</b>	<b>\$ 29,579</b>	<b>\$ 30,614</b>	<b>\$ 31,685</b>

<b>Total Program Costs</b> (Direct & Indirect)	<b>\$ 672,259</b>	<b>\$ 695,392</b>	<b>\$ 719,335</b>	<b>\$ 744,116</b>	<b>\$ 769,764</b>
---	-------------------	-------------------	-------------------	-------------------	-------------------

<b>3. ENROLMENT</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
<b>Expected Enrolment (headcount)</b>	2	4	6	8	8
<b>Expected Enrolment (credit hours)</b>	60	120	180	240	240

<b>4. PROGRAM REVENUE ALLOCATED TO FACULTY/SCHOOL</b>					
Operating Grant Revenue (see note)					
Tuition Revenue (Appendix E)					
• Credit Hour Based					
Undergraduate	-	-	-	-	-
Graduate	-	-	-	-	-
• Program Based	-	-	-	-	-
• Program/Course Specific Fees	-	-	-	-	-
• Other Compulsory Student Fees	-	-	-	-	-
Other revenue	-	-	-	-	-
<b>Total Program Revenue</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>5. EXISTING RESOURCES</b>					
From Operations:					
Academic Salaries (Appendix A)	\$ 599,671	\$ 620,660	\$ 642,383	\$ 664,866	\$ 688,136
Professional and Support Salaries (Appendix A)	33,666	34,844	36,064	37,326	38,633
Indirect Salaries (Appendix A)	27,612	28,578	29,579	30,614	31,685
Current/prior years surplus (carryover)	11,310	11,310	11,310	11,310	11,310
From Other Sources:					
<b>Subtotal Existing Resources</b>	<b>\$ 672,259</b>	<b>\$ 695,392</b>	<b>\$ 719,335</b>	<b>\$ 744,116</b>	<b>\$ 769,764</b>

SPPC Form

<b>6. Program shortfall (surplus)</b> (Program Costs -Program Revenue - Existing Resources)	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Internal Funds Requested through Strategic Allocation</b>					
<b>Funds Requested of the Provincial Government</b>					
<b>Balance (should be zero)</b>	\$ -	\$ -	\$ -	\$ -	\$ -



Digitally signed by Jeffrey Conquergood  
Date: 2021.07.09 14:40:28 -05'00'

**Submitted by Faculty/School Budget Officer (signature)**

**Date**

**Reviewed by Graduate Studies Business Manager**

(For graduate program submissions only)

**Date**

**Chester Wojciechowski**

Digitally signed by Chester Wojciechowski  
DN: cn=Chester Wojciechowski, o=University of Manitoba, ou=Financial  
Planning Office, email=chester.wojciechowski@umanitoba.ca, c=CA  
Date: 2021.07.13 15:27:53 -05'00'

**July 13/21**

**Reviewed by University Budget Officer (signature)**

**Date**



Average Salary Increase 3.5%  
 Average Benefits and Pay Levy 20%

Appendix A - Salary Expenses

**SENATE PLANNING AND PRIORITY COMMITTEE  
 NEW PROGRAM APPROVAL PROCESS**

NEW	Year 1		Year 2		Year 3		Year 4		Year 5	
	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary
Academic										
Excluded Academic Admin	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professor	-	-	-	-	-	-	-	-	-	-
Assoc/Asst Professor or Senior Instructor	-	-	-	-	-	-	-	-	-	-
Lecturer/Instructor/Sessionals	-	-	-	-	-	-	-	-	-	-
Librarians	-	-	-	-	-	-	-	-	-	-
Teaching Assistants	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Academic Salaries</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Academic Salaries (including BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professional and Support Staff										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	-	-	-	-	-	-	-	-	-	-
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Professional and Support Staff</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Professional and Support Staff (incl. BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Indirect Staff (Within your faculty/school)										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Indirect Staff</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Indirect Staff (including BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
<b>Total New Staff</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>

Appendix A - Salary Expenses

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<b>EXISTING</b> (Within your faculty/school)	<b>Year 1</b>		<b>Year 2</b>		<b>Year 3</b>		<b>Year 4</b>		<b>Year 5</b>	
	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>
<b>Academic</b>										
Excluded Academic Admin	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professor	1.00	146,341	1.00	151,463	1.00	156,764	1.00	162,251	1.00	167,930
Assoc/Asst Professor or Senior Instructor	1.00	131,921	1.00	136,538	1.00	141,317	1.00	146,263	1.00	151,382
Lecturer/Instructor/Sessionals	2.50	221,464	2.50	229,215	2.50	237,238	2.50	245,541	2.50	254,135
Librarians	-	-	-	-	-	-	-	-	-	-
Teaching Assistants	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Academic Salaries</b>	<b>4.50</b>	<b>499,726</b>	<b>4.50</b>	<b>517,216</b>	<b>4.50</b>	<b>535,319</b>	<b>4.50</b>	<b>554,055</b>	<b>4.50</b>	<b>573,447</b>
Benefits and Pay Levy		99,945		103,443		107,064		110,811		114,689
<b>Total Existing Academic Salaries (including BPL)</b>	<b>4.50</b>	<b>\$ 599,671</b>	<b>4.50</b>	<b>\$ 620,660</b>	<b>4.50</b>	<b>\$ 642,383</b>	<b>4.50</b>	<b>\$ 664,866</b>	<b>4.50</b>	<b>\$ 688,136</b>
<b>Professional and Support Staff</b>										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	0.50	28,055	0.50	29,037	0.50	30,053	0.50	31,105	0.50	32,194
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Professional and Support Staff</b>	<b>0.50</b>	<b>28,055</b>	<b>0.50</b>	<b>29,037</b>	<b>0.50</b>	<b>30,053</b>	<b>0.50</b>	<b>31,105</b>	<b>0.50</b>	<b>32,194</b>
Benefits and Pay Levy		5,611		5,807		6,011		6,221		6,439
<b>Total Existing Professional and Support Staff (incl. BPL)</b>	<b>0.50</b>	<b>\$ 33,666</b>	<b>0.50</b>	<b>\$ 34,844</b>	<b>0.50</b>	<b>\$ 36,064</b>	<b>0.50</b>	<b>\$ 37,326</b>	<b>0.50</b>	<b>\$ 38,633</b>
<b>Indirect Staff</b>										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	0.35	23,010	0.35	23,815	0.35	24,649	0.35	25,512	0.35	26,405
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Indirect Staff</b>	<b>0.35</b>	<b>23,010</b>	<b>0.35</b>	<b>23,815</b>	<b>0.35</b>	<b>24,649</b>	<b>0.35</b>	<b>25,512</b>	<b>0.35</b>	<b>26,405</b>
Benefits and Pay Levy		4,602		4,763		4,930		5,102		5,281
<b>Total Existing Indirect Staff (including BPL)</b>	<b>0.35</b>	<b>\$ 27,612</b>	<b>0.35</b>	<b>\$ 28,578</b>	<b>0.35</b>	<b>\$ 29,579</b>	<b>0.35</b>	<b>\$ 30,614</b>	<b>0.35</b>	<b>\$ 31,685</b>
<b>Total Existing Staff</b>		<b>\$ 660,949</b>		<b>\$ 684,082</b>		<b>\$ 708,025</b>		<b>\$ 732,806</b>		<b>\$ 758,454</b>
<b>GRAND TOTAL</b>		<b>\$ 660,949</b>		<b>\$ 684,082</b>		<b>\$ 708,025</b>		<b>\$ 732,806</b>		<b>\$ 758,454</b>

**App B - Operating Exp.**

**Appendix B - Operating Expenses**

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<u>Direct Expenses</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
700BGT	Travel - Budget (includes visiting speakers, orientation, research day)	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000
701BGT	Hospitality - Budget	\$ 400	\$ 400	\$ 400	\$ 400	\$ 400
704BGT	Printing and Duplicating - Budget	\$ 640	\$ 640	\$ 640	\$ 640	\$ 640
706BGT	Consumable Materials/Supplies Budget (includes computers)	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
708BGT	Telecommunications - Budget	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
710BGT	Other Expenses (Nonconsumable) Budget	\$ 200	\$ 200	\$ 200	\$ 200	\$ 200
713BGT	Insurance - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
716BGT	Externally Contracted Serv - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
718BGT	Professional Fees - Budget	\$ 670	\$ 670	\$ 670	\$ 670	\$ 670
740BGT	Repairs and Maintenance - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal Direct Operating</b>		<b>\$ 9,910</b>	<b>\$ 9,910</b>	<b>\$ 9,910</b>	<b>\$ 9,910</b>	<b>\$ 9,910</b>

**Appendix C - Student Support**

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<u>Graduate / Undergraduate Support Expense</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
7700	Scholarships	\$ -	\$ -	\$ -	\$ -	\$ -
7710	Bursaries	\$ -	\$ -	\$ -	\$ -	\$ -
7720	Awards	\$ 1,400	\$ 1,400	\$ 1,400	\$ 1,400	\$ 1,400
<b>Subtotal Operating</b>		<b>\$ 1,400</b>	<b>\$ 1,400</b>	<b>\$ 1,400</b>	<b>\$ 1,400</b>	<b>\$ 1,400</b>

Appendix D - Capital Costs

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

Capital Item	Year 1			Year 2			Year 3			Year 4			Year 5		
	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total
Major Equipment	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Vehicles	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Renovations	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Furniture	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Other ( <i>list</i> )			-			-			-			-			-
...															
<b>Subtotal Operating</b>		<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>	

Appendix E - Tuition

Fee Increase

3.8%

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

1. EXPECTED ENROLMENT	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Headcount</b>					
Undergraduate	2	4	6	8	8
Graduate					
Graduate (continuing only)					
<b>Credit Hours</b>					
Undergraduate	60	120	180	240	240
Graduate					

2. TUITION REVENUE GENERATED BY THE PROGRAM					
• Credit Hour Based - (enter credit hour rate in yr 1)	\$ 132	\$ 137	\$ 142	\$ 147	\$ 153
Undergraduate	7,909	16,412	25,541	35,332	36,657
Graduate	-	-	-	-	-
• Program Based - (enter annual program fee in yr 1)	\$ -	\$ -	\$ -	\$ -	\$ -
Undergraduate	-	-	-	-	-
Graduate	-	-	-	-	-
<b>Total Tuition Fees</b>	<b>\$ 7,909</b>	<b>\$ 16,412</b>	<b>\$ 25,541</b>	<b>\$ 35,332</b>	<b>\$ 36,657</b>
• Continuing Fee - (enter annual continuing fee in yr 2)		\$ -	\$ -	\$ -	\$ -
Graduate	-	-	-	-	-
• Program/Course Specific Fees					
Lab Fees - (enter amount in applicable years)	-				
Field Trip Fees - (enter amount in applicable years)	-				
(Fee description/rate )					
..... (add as required)...					
..... (add as required)...					
<b>Total Program/Course Specific Fees</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>TOTAL TUITION AND FEES GENERATED BY THE PROGRAM</b>	<b>\$ 7,909</b>	<b>\$ 16,412</b>	<b>\$ 25,541</b>	<b>\$ 35,332</b>	<b>\$ 36,657</b>
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<b>3. TUITION REVENUE ALLOCATED TO THE FACULTY</b>					
• Credit Hour Based - Undergraduate (enter amount)					
• Credit Hour Based - Graduate	-	-	-	-	-
• Program Based	-	-	-	-	-
• Program/Course Specific Fees	-	-	-	-	-
• Other Compulsory Student Fees (enter amount)					
<b>TOTAL TUITION REVENUE ALLOCATED TO THE FACULTY</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**Operating Worksheet**

Acct	Expense	Year 1	Year 2	Year 3	Year 4	Year 5
<b>700BGT</b>	<b>Travel and Conferences</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7001	Travel Academic					
7002	Travel Administration					
7003	Relocation					
7004	Staff Recruitment					
7005	Field Trips					
7006	Team Travel					
7007	Local Travel					
7009	Student Recruitment					
7010	Student Travel					
7130	Airfare					
7131	Accommodation					
7132	Meals (Per Diem-No receipts)					
7133	Meals (with receipts)					
7134	Mileage (Km's)					
7135	Parking					
7136	Car Rental					
7137	Conference Registration					
7138	Taxis					
7139	Misc Travel/Incidentals					
7676	Hospitality					
<b>704BGT</b>	<b>Printing and Duplicating - Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7040	Printing					
7041	Copying					
<b>706BGT</b>	<b>Consumable Materials/Supplies Budgt</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7060	Office Supplies					
7061	Lab Supplies					
7062	Audio Visual Supplies					
7063	Agricultural Supplies					
7064	Safety Supplies					
7065	Sports and Athletic Supplies					
7066	Books and Subscriptions					
7067	Other Supplies					
7068	Computing Supplies					
7069	Maintenance and Cleaning Supplies					
7070	Dental Supplies					
7071	Equipment Foreign Operations					
7072	Supplies Foreign Operations					
<b>708BGT</b>	<b>Telecommunications - Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7080	IST Telecommunications					
7082	Physical Plant Postage					
7085	Departmental Communications					



**Operating Worksheet**

Acct	Expense	Year 1	Year 2	Year 3	Year 4	Year 5
<b>710BGT</b>	<b>Other Expenses (Nonconsumable) Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7100	Affiliated Personnel Costs					
7101	Professional Development					
7102	Professional Memberships					
7103	Conferences/Events Hosted by U of M					
7104	Other Services					
7106	Bad Debts					
7107	Advertising and Promotion					
7108	Licenses and Permits					
7109	Software Maintenance					
7110	Staff Benefits					
7111	Other Non-Consumable Expenses					
7114	Internal Financing Expense					
7116	Internal Services Expense					
<b>718BGT</b>	<b>Professional and External Services</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7160	Externally Contracted Services					
7180	Professional Fees					
7185	Investment Management Expenses					
<b>740BGT</b>	<b>Repairs and Maintenance</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7400	Equipment Repairs & Maintenance					
7401	Building Repairs & Maintenance					
7402	Equipment Rental					
7403	Grounds Maintenance					

## **German Courses 1000-level**

### **GRMN 1120 Beginning German (A) 6 Cr. Hrs.**

(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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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.

## **German Courses 2000-level**

### **GRMN 2100 Intermediate German (A) 6 Cr. Hrs.**

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 2110 Discovering German Life and Culture (C) 3 Cr. Hrs.**

Language of instruction: English. An introduction to German life and culture with an emphasis on experiential and reflective learning. The course will cover topics like popular music in Germany, film, memory culture, multiculturalism, environmentalism, food, and family structures. These topics will be addressed through the analysis of, among others, short texts, songs, movies, and graphic novels. Involvement of the German-Canadian community in Manitoba and of presenters from German-speaking countries are an integral part of this course.

### **GRMN 2120 Introduction to German Culture from 1918 to the Present (C) 3 Cr. Hrs.**

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) 3 Cr. Hrs**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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).

**GRMN 2520 Spies: Stories of Secret Agents, Treason, and Surveillance (C) 3 Cr. Hrs.**

Language of Instruction: English: Discusses German stories of espionage in film, television series, historical novel, literary fiction, autobiography, and comic books. The course familiarizes students with spying in its cultural techniques and forms, its imaginary power, its gender patterns, and the complexities and ambiguities of concepts such as treason, performance, truth, good and evil.

**GRMN 2530 My Friend the Tree: Environment and Ecology in German Culture in English Translation (C) 3 Cr. Hrs.**

Language of Instruction: English. Discusses the representation of nature in German culture through the analysis of a broad variety of texts (novels, short stories, movies, television series etc.). The course familiarizes students with how the German-speaking world conceptualizes nature and climate change and introduces them to the field of Ecocriticism.

## **German Courses 3000-level**

### **GRMN 3200 Deutsche Sprachpraxis 1 (A) 6 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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 3282 Sex, Gender and Cultural Politics in the German-Speaking World in English Translation (C) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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 3500 Special Topics in German (B) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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) 3 Cr. Hrs.**

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.

## **German Courses 4000-level**

**GRMN 4200 Literary and Cultural Theory (C) 3 Cr. Hrs.** 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) 3 Cr. Hrs.** 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) 3 Cr. Hrs.** 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) 3 Cr. Hrs.** 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) 3 Cr. Hrs.** 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 4660 Special Topics in German (B) 3 Cr. Hrs.** 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) 3 Cr. Hrs.**

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.

## German Single and Double Advanced Major Program Introductions

- The German and Slavic Studies Department proposes the introduction of a Single Advanced Major and a Double Advanced Major program in German.

### Added Material

~~Deleted Material~~

## 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](mailto:german_slavic@umanitoba.ca)

**Website:** [umanitoba.ca/german\\_and\\_slavic/](http://umanitoba.ca/german_and_slavic/)

### 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.

### German

#### German Program Information

For entry, continuation and graduation requirements for the General Degree and Honours Degree, see: [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.

A minimum "C" average 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: [Basic Faculty Regulations](#) for the B.A. General, Advanced and Honours Degree Programs.

## ~~HONOURS~~ CO-OPERATIVE EDUCATION OPTIONS

Students interested in alternating employment terms and academic terms as part of ~~a the Single Honours~~ program in German may apply to enter one of the Co-operative Education options. The course and grade requirements for entry to this option are the same as those required for entry to the regular four-year Single Advanced Major and Single Honours programs. Students should refer to the general faculty regulations for Cooperative Options.

## 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

## German, B.A. Single Advanced Major (including Co-operative Education Option if selected)

Years 1-4	Hours
48 credit hours of German (of which at least 15 credit hours must be German courses numbered at or above the 3000 level and an additional 21 credit hours at or above the 2000 level) to include:	48
GRMN 1120      Beginning German (A) <sup>1,2</sup>	
GRMN 2100      Intermediate German (A) <sup>1,2,3</sup>	
GRMN 2120      Introduction to German Culture from 1918 to the Present (C) or GRMN 2130      or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140      Exploring German Literature (B) or GRMN 2480      or Special Topics in German (B)	
GRMN 3200      Deutsche Sprachpraxis 1 (A) <sup>2,3</sup>	
Within the required credit hours in German, 9 credit hours must be from Category B courses and a further 15 credit hours must be from Category B or C courses	
18 credit hours from your Minor area of study as described in that unit's section of the calendar	18
42 credit hours from outside of your Major and Minor areas of study	42
12 credit hours of open electives	12

Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

<b>Total Hours</b>	<b>120</b>
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## CO-OPERATIVE EDUCATION OPTION

<b>Years 3-4</b>	<b>Hours</b>
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If the Co-operative Education Option is selected, time to completion will be extended by 12 months and the following three, 1 credit hour work term courses will count toward the open elective credit required in this program:

ARTS 3010	Arts Co-operative Option 1	1
ARTS 3020	Arts Co-operative Option 2	1
ARTS 3030	Arts Co-operative Option 3	1
<b>Total Hours</b>		<b>3</b>

<sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.

<sup>2</sup> 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".

<sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".

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

**While completing the courses listed above, students in the B.A. Advanced Degree must satisfy the University's Written English (W) and Mathematics (M) requirements, plus the following Faculty requirements in order to graduate:**

Ten Faculty Requirements for Graduating with a B.A. Advanced Degree

1. A student must successfully complete a minimum of 120 credit hours from among the courses acceptable for credit in the Faculty of Arts, with a "C" average or better on the courses that

contribute to satisfying all of the B.A. Advanced Degree requirements.

**The minimum 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, at least six credit hours from the list of courses that satisfy the Science requirement, and at least three credit hours from the list of courses that satisfy the Indigenous Content requirement.
3. At least six credit hours completed in each of five different subject fields. A subject field may also satisfy other Bachelor of Arts requirements such as Humanities, or Social Sciences, or Sciences, or Indigenous Content, 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. The student must have a minimum "C" average in courses where a final grade is recorded that are used toward the Major including only the higher 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 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. The student must have a minimum "C" average in courses where a final grade is recorded that are used toward each Major including only the higher 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. Please refer to department listings and other courses offered in faculties and schools.

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. 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), 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 Residency Requirement).

## German, B.A. Double Advanced Major

Years 1-4		Hours
42 credit hours of German (of which at least 12 credit hours must be German courses numbered at or above the 3000 level and an additional 18 credit hours at or above the 2000 level) to include:		42
GRMN 1120	Beginning German (A) <sup>1,2</sup>	
GRMN 2100	Intermediate German (A) <sup>1,2,3</sup>	
GRMN 2120 or GRMN 2130	Introduction to German Culture from 1918 to the Present (C) or Introduction to German Culture from the Beginnings to 1918 (C)	
GRMN 2140 or GRMN 2480	Exploring German Literature (B) or Special Topics in German (B)	
GRMN 3200	Deutsche Sprachpraxis 1 (A) <sup>2,3</sup>	
Within the required credit hours in German, 6 credit hours must be from Category B courses and a further 12 credit hours must be from Category B or C courses		
42 credit hours in the second Advanced Major subject field as described in that unit's section of the calendar		42
36 credit hours from outside both Advanced Major subject fields		36
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> Students with superior language ability in German, who did not have to complete either GRMN 1120 or GRMN 2100 can replace GRMN 1120 or GRMN 2100 with either 6 credit hours in German courses or with YDSH 1220.

<sup>2</sup> 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".

<sup>3</sup> Students with superior language ability will not be required to complete GRMN 2100 if they complete GRMN 3200 with a minimum grade of "C".

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

**While completing the courses listed above, students in the B.A. Advanced Degree must satisfy the University's Written English (W) and Mathematics (M) requirements, plus the following Faculty requirements in order to graduate:**

## Ten Faculty Requirements for Graduating with a B.A. Advanced Degree

1. A student must successfully complete a minimum of 120 credit hours from among the courses acceptable for credit in the Faculty of Arts, with a “C” average or better on the courses that contribute to satisfying all of the B.A. Advanced Degree requirements.

### **The minimum 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, at least six credit hours from the list of courses that satisfy the Science requirement, and at least three credit hours from the list of courses that satisfy the Indigenous Content requirement.
3. At least six credit hours completed in each of five different subject fields. A subject field may also satisfy other Bachelor of Arts requirements such as Humanities, or Social Sciences, or Sciences, or Indigenous Content, 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. The student must have a minimum “C” average in courses where a final grade is recorded that are used toward the Major including only the higher 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 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. The student must have a minimum “C” average in courses where a final grade is recorded that are used toward each Major including only the higher 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. Please refer to department listings and other courses offered in faculties and schools.

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. 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), 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 Residency Requirement).

**University of Manitoba Libraries**  
**Statement for New Program**

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**Faculty** Arts  
**Department** German and Slavic Studies  
**Program Name** Single Advanced Major in German &  
Double Advanced Major in German

The Libraries' collection can support these new programs, with additional books the library will purchase.

It is not expected that this proposed change will affect the Libraries' ability to continue to provide services such as research and teaching support, reference assistance, document delivery, and the technical infrastructure which allows the discovery and delivery of the Libraries' resources and services.

It is important to note that Libraries resources and services can be used for course work, but not for work done for another party (business, law firm, non-profit, etc.) during the co-operative placement.

Emma Popowich  
Romance Languages Librarian

Liv Valmestad  
Head, Humanities Division

  
\_\_\_\_\_  
Kristen Kruse  
Coordinator, Collections Management

  
\_\_\_\_\_  
Lisa Hanson O'Hara  
Vice Provost (Libraries) & University Librarian

April 9, 2021  
Date



**Report of the Senate Committee on Curriculum and Course Changes on a proposal for Bachelor of Arts (Single Honours) in Global Political Economy, Faculty of Arts**

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**Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. At its meeting on October 13, 2021, the SCCC considered a proposal from the Global Political Economy (GPE) Program, Faculty of Arts, to establish a Bachelor of Arts (Single Honours) in Global Political Economy. The Program already offers a three-year Bachelor of Arts (General Major) and a Bachelor of Arts (Single Advanced Major) in Global Political Economy. The interdisciplinary degrees are offered with five Departments in the Faculty contributing courses to the programs, including the Departments of Anthropology, Economics, History, Political Studies, and Sociology and Criminology.
3. The Faculty Council of the Faculty of Arts endorsed the proposal at its meeting on September 1, 2021. The Senate Planning and Priorities Committee also considered the proposal at its meeting on September 27, 2021.

**Observations:**

1. The proposed Bachelor of Arts (Single Honours) in Global Political Economy would be a four-year, 120 credit hour degree. The course requirements, as set out in Section B-5 of the proposal, would be the same as those for the Bachelor of Arts (Single Advanced Major) in Global Political Economy but with requirements for 15 credit hours at the 4000-level where the Single the Advanced Major requires 6 credit hours. The Honours students would have access to 4000- level courses in the five participating Departments and in Global Political Economy, including GPE 4510 Global Political Economy Field Placement Seminar and GPE 4520 Global Political Economy Field Placement.
2. The purpose of the program will be to provide students advanced, problem-oriented training in an interdisciplinary context; to develop students’ writing abilities, analysis and argumentation skills; and to provide specialized knowledge of global political economy.
3. The proposal to introduce an Honours program responds to a recommendation in an external undergraduate program review completed in 2018. Based on results of student surveys completed for that review, the proposal also responds to students’ desire to have the option to complete an Honours program, particularly for those who intend to pursue graduate studies, but also given that the rigorous requirements for the Single Advanced Major are nearly as demanding as those for an Honours degree.
4. The program would prepare students to pursue post-graduate studies in the same or related disciplines, including in the social sciences and humanities and professional programs such as law, business, communications, and city planning. For those who would seek employment upon graduation, the Honours degree would signal graduates have achieved the highest level of expertise possible at the undergraduate level.

5. Establishment of the program would not require the introduction of any new courses. The program would make use of existing courses, including courses offered by the GPE Program, the five Departments in the Faculty of Arts that participate in the delivery of the Global Political Economy degrees, as well as one 1000- level course offered by the Department of Statistics, Faculty of Science. The GPE Program consulted other units about using their courses in the proposed program, and the SCCCC was provided with their statements of support. The Departments of Anthropology, Economics, and History expressed no reservations or limitations. The Departments of Political Studies and Sociology and Criminology indicated that spaces in their courses would be available to students in the proposed Honours program, who had the necessary prerequisites, when enrolment was not at capacity with Political Studies/Sociology and Criminology students.
6. Projected enrolment for the first intake is fourteen (14) students. The maximum seat capacity would be eighteen (18) students.

**Recommendation:**

The Senate Committee on Curriculum and Course Changes recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Bachelor of Arts (Single Honours) in Global Political Economy, in the Faculty of Arts.**

Respectfully submitted,

Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

## **Report of the Senate Planning and Priorities Committee on a proposal for a Bachelor of Arts (Honours) in Global Political Economy, Faculty of Arts**

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### **Preamble:**

1. The [terms of reference](#) of the Senate Planning and Priorities Committee (SPPC), which are found on the University Governance website, charge SPPC with making recommendations to Senate regarding proposed academic programs.
2. The Global Political Economy (GPE) Program, in the Faculty of Arts, offers interdisciplinary degrees, with five departments in the Faculty of Arts contributing courses, including Anthropology, Economics, History, Political Studies, and Sociology and Criminology. The degrees are designed to train students to understand, analyse, and communicate complex social, economic, and environmental issues of relevance locally and internationally. The Global Political Economy degrees are unique in the province and only a small number of comparable programs are offered at other Canadian institutions. The Program currently offers a three-year Bachelor of Arts (General Major) and a four-year Bachelor of Arts (Single Advanced Major).
3. At its meeting on September 27, 2021, the SPPC considered a proposal from the Global Political Economy (GPE) Program, Faculty of Arts to establish a Bachelor of Arts (Honours) in Global Political Economy. The proposal was endorsed by the Faculty Council of the Faculty of Arts at its meeting on September 1, 2021.

### **Observations:**

1. The proposed Bachelor of Arts (Honours) in Global Political Economy would be a four-year program that would require 120 credit hours of coursework. The proposal for an Honours program responds to a recommendation in an external academic program review completed in 2018. Compared to the Single Advanced Major, the Honours program would require an additional 9 credit hours of 4000-level courses in the affiliated disciplines.
2. The objectives for the program would be to provide advanced, problem-oriented training in an interdisciplinary context; develop students' writing, analysis, and argumentation skills; and provide specialized knowledge of global political economy.
3. The program would prepare students to pursue post-graduate studies in the same or related disciplines, including in the social sciences and humanities and professional programs such as law, business, communications, and city planning. For those who would seek employment upon graduation, the Honours degree would signal graduates have achieved the highest level of expertise possible at the undergraduate level.  
Graduates would be employed in a diversity of fields, as described in the proposal, including as policy analysts in various branches of the public sector, as outreach and communication specialists, city planners, strategy and program officers for financial firms, and international development officers.
4. Projected enrolment for the first intake is 14 students. The maximum seat capacity would be 18 students. Based student surveys completed in 2018 and the academic strength of many students in its degree programs, the GPE Program expects that the majority of students currently enrolled in the four-year B.A. (Single Advanced Major) in Global

- Political Economy would transfer to the Honours program, if it were approved and implemented.
5. Introduction of the Honours program would not require the introduction of new courses. The program would make use of existing courses, including courses offered by the GPE Program, the five participating Departments, and the Department of Statistics, Faculty of Science.
  6. The total cost of delivering the program would be \$308,134, in Year 4. Revenue to support the program would be derived from the following sources (as of Year 4):
    - tuition, which would generate \$70,664, assuming an enrolment of 16 students;
    - existing resources in the Faculty (\$237,470).
  7. No new resources would be required to offer the program, which would be funded using existing Faculty resources and tuition revenue. The GPE Program and participating departments have sufficient teaching resources and the anticipated administrative and advising support would be within the capacity of the Program and the Faculty.

Revenues identified in observation 6 would be allocated to the items indicated below (figures are for Year 4):

    - salary and benefits for existing academic staff (\$197,983), including 0.20 FTE Professors, 0.85 FTE Associate or Assistant Professors or Senior Instructors, and 0.30 Lecturers, Instructors, or Sessional Instructors;
    - salary and benefits for existing support staff, including 0.05 FTE AESES Support Staff (\$3,373) and 0.35 FTE AESES Indirect Staff (\$30,614);
    - operating expenses (\$5,500); and
    - administrative overhead (\$70,664).
  8. The University of Manitoba Libraries indicated its current collection can support the proposed program.
  9. On the basis of the SPPC's criteria for assigning priority to new programs / initiatives,<sup>1</sup> the Committee recommended that a high priority level be assigned to the proposal for a Bachelor of Arts (Honours) in Global Political Economy. The proposal is consistent with the University's strategic priority for Inspiring Minds in two respects. First, it would support the goal to maintain and support an appropriate range of liberal arts, science and professional programs. Second, because the Honours program would provide students with an opportunity to deepen their understanding of Global Political Economy, it would optimize the educational experience for these students, thus enhancing their professional opportunities and preparing them for further advanced study.

### **Recommendation:**

The Senate Planning and Priorities Committee recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Bachelor of Arts (Honours) in Global Political Economy, in the Faculty of Arts. The Senate Committee on Planning and Priorities recommends that the Provost and Vice-President (Academic) not implement the**

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<sup>1</sup> [http://umanitoba.ca/admin/governance/media/SPPC\\_Assigning\\_Priorities\\_to\\_New\\_Programs-Initiatives.pdf](http://umanitoba.ca/admin/governance/media/SPPC_Assigning_Priorities_to_New_Programs-Initiatives.pdf)

**program until satisfied that there would be sufficient space and sufficient funding to support the ongoing operation of the program.**

Respectfully submitted,

Professor David Watt, Chair  
Senate Planning and Priorities Committee

October 14, 2021

**Report of the Senate Committee on Instruction and Evaluation RE: Entrance Regulation, Bachelor of Arts (Honours) in Global Political Economy, Faculty of Arts**

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**Preamble:**

1. The terms of reference for the Senate Committee on Instruction and Evaluation (SCIE) can be found at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/502.html](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/502.html).
2. At its meeting on October 14, 2021 the committee considered a proposal from the Faculty of Arts regarding entrance regulations for the Bachelor of Arts (Honours) in Global Political Economy.

**Observations:**

1. The Faculty is proposing that entrance to the Bachelor of Arts (Honours) in Global Political Economy would require a grade of “B” or better in both ECON 1010 and ECON 1020 or both ECON 1210 and ECON 1220 as well as six credit hours from GPE 1700 (or GEOG 1700), HIST 1370, HIST 1380, HIST 2730, HIST 2732, HIST 2734, POLS 2602.

**Recommendation**

The Senate Committee on Instruction and Evaluation recommends:

***THAT Senate approve the proposed entrance regulation for the Bachelor of Arts (Honours) in Global Political Economy, Faculty of Arts, effective September 1, 2022.***

Respectfully submitted,

Dr. Mark Torchia, Chair  
Senate Committee on Instruction and Evaluation

**NEW PROGRAM OF STUDY**

Under The Advanced Education Administration Act

Universities and colleges requesting approval for a **new** program of study from Education and Training must apply using this application form. This form reflects the requirements set out in the Programs of Study Regulation (MR 134/2015) under The Advanced Education Administration Act.

**UM INTERNAL REQUIREMENTS:**

1. Following unit approval\* please submit the complete proposal electronically (.pdf single file) to both the Office of the Provost & Vice-President (Academic) and, for:
  - Undergraduate Programs:** Office of the University Secretary (for Senate submission deadlines visit <http://umanitoba.ca/admin/governance/meetings/index.html>). Please also submit a **hard copy** version to the Office of the Secretary to their office as well.
  - Graduate Programs:** Faculty of Graduate Studies (for timelines visit [http://umanitoba.ca/faculties/graduate\\_studies/admin/program\\_approval\\_timeline.html](http://umanitoba.ca/faculties/graduate_studies/admin/program_approval_timeline.html)).
  - ALL Programs:** as preparation for submission to MET, please submit a .docx file of the proposal, an .xlsx file of the Financial Support Form and a .pdf file of all other supporting documents (letters of support, external reviews, etc.). Please date stamp these files for ease of tracking should any changes result from the Senate approval process and submit directly to the Provost's Office.
2. Along with the information requested in the proposal template, please **append** details on the following:
  - a) **MET /SPPC Financial Support Form** [available through the Office of the Provost & Vice-President (Academic)]  
This form requires the signature of the Financial Planning Office. Please contact Giselle Martel, Executive Director, Financial Planning and Budgeting, for direction on completion of the form. Approval of the financial support form does not signify approval of any funding requests, either internally or from the province. Confirmation of resource availability and allocation of any new funds will be determined by the Provost at time of implementation.
  - b) **Admission and/or transfer criteria** for the proposed program.
  - c) **Course details** for required coursework, including title, course number, credit hours and calendar description. Highlight any proposed new courses and attach:
    - Undergraduate Programs:* for SCCC Program and Course Change forms, as applicable, visit <http://umanitoba.ca/admin/governance/forms/index.html>
    - Graduate Programs:* for course change forms visit [http://umanitoba.ca/faculties/graduate\\_studies/admin/course\\_changes.html](http://umanitoba.ca/faculties/graduate_studies/admin/course_changes.html)
  - d) Any **new academic regulations** for the program that are not currently addressed in existing faculty/college/school requirements.
  - e) **Letters of support** from internal units that may be impacted by the proposed new program and any external letters of support as outlined below.
  - f) **Library statement** of support.
  - g) Where applicable, a **transition plan** for current students entering the new program.
3. Please direct questions to Cassandra Davidson, Academic Programs Specialist, at [Cassandra.Davidson@umanitoba.ca](mailto:Cassandra.Davidson@umanitoba.ca) in the Office of the Provost and Vice-President (Academic).


**University  
of Manitoba**

\*Note: the complete proposal, including all appendices, and associated program and course forms, should be submitted to departmental (as appropriate) and faculty/college/school approving bodies for review and approval, prior to submission to the Office of the University Secretary.

*Revised December 10, 2017*

*Revised October 18, 2017.*

**SECTION A – PROPOSAL DETAILS**

Institution: **UNIVERSITY OF MANITOBA**

Applicable faculties/department with responsibility for the program: Faculty of Arts, Global Political Economy Program

If program is a joint program, list all participating institutions and the roles of each in delivering the proposed program:  
N/A

Program name: Honours in Global Political Economy

Credential awarded: BA Honours

Funding request: N/A

*Office Use Only*

One-time funding: \_\_\_\_\_

On-going funding: \_\_\_\_\_

Proposed start date: September 2022 or 2023, depending on approval timelines

List any critical issues that may impact the start date of the program: N/A

**UM INTERNAL REQUIREMENT:** Name of Person(s) responsible for the Program internally (please include contact information):

Dr. Mark Hudson, Coordinator, Global Political Economy Program, 333 Isbister Building, 204-284-8834 (home); 204-272-1655 (office); 204-963-1603 (mobile). Mark.hudson@umanitoba.ca



**B-1 Provide a general description of the program and its objectives:** *(Include intended purpose, curriculum design, and highlight distinctive attributes)*

The Global Political Economy Program (GPE) is an interdisciplinary undergraduate degree, with five participating departments in the Faculty of Arts: Sociology and Criminology, Economics, Political Studies, History, and Anthropology. GPE currently offers a three-year General Major, and a four-year Advanced Major.

In response to recommendations resulting from the 2018 External Undergraduate Program Review, GPE is proposing to offer an Honours program. Our expectation is that the vast majority of students pursuing a four-year degree will opt for the Honours program, but we intend to leave the Advanced option in place to gauge student demand. The proposed Honours program will be a four-year program, but will require more coursework in GPE's affiliated disciplines at the 4000 level. 4000 level courses are the most advanced and/or specialized courses in a program, normally taken by Advanced degree and Honours degree students in their final year. Admission to the Honours program will require a minimum 3.0 grade point average and students will be required to maintain a 3.0 DGPA throughout the program. The new program will be very appealing to our Advanced Majors who are already doing work very close to the level required for an Honours degree, and who have expressed through student surveys and in the context of GPE's undergraduate program review a desire for an Honours option. GPE students in the Advanced program already form a close cohort, and this will further strengthen with an Honours degree. It will also streamline and simplify high-performing students' applications to post-graduate programs. For those seeking employment upon completing their degree, an Honours degree will signal that they have successfully achieved the highest level of expertise possible in an undergraduate program. It will expand students' ability to take the Field Placement Seminar (GPE 4510 and GPE 4520), which offers students an opportunity for relevant work experience while doing community- and policy-relevant research.

An Honours Program in GPE offers students advanced, problem-oriented training in an interdisciplinary context. Like other Honours programs offered by the Faculty of Arts, students will develop strong writing abilities and will hone their analysis and argumentation skills, while they acquire a specialized knowledge of global political economy. The GPE program is unique in Manitoba and has only a very small number of comparable programs across the country.

**B-2 Length of Program:** *(Define the length of the proposed program using measures appropriate to the schedule and delivery format. This will include total course credits and weeks/months, and, where relevant, hours and semesters of instruction)*

The proposed course-based Honours program in GPE is a four-year 120 credit hour program. The Honours degree course requirements will be identical to the current Advanced Major with the exception that Honours students will be required to complete 15 credit hours at the 4000 level (while Advanced Major students must complete only 6 credit hours). GPE Honours students will have access to 4000 level courses in GPE's 5 participating departments, the GPE/Labour Studies Field Placement Seminar (GPE 4510 and GPE 4520), as well as contemplating appropriate GPE courses in other cognate units.

**B-3 Intended outcomes of the program:**

B-3.1 Describe how this program serves and advances the academic, cultural, social and economic needs and interests of students and the province:

A course-based Honours program in GPE serves the academic needs and interests of GPE majors at the University of Manitoba by offering them more options in terms of programs offering advanced preparation. Students who opt for the Honours program can present themselves to graduate schools and potential employers as having received a highly specialized education with substantial academic engagement. With its higher entrance

requirements and higher expectations of performance, the Honours program will attract the very best of our students many of whom are already doing Honours-level work and receiving an Advanced degree. These students typically maintain high grade point averages. A high proportion of our Advanced degree program students do go on to pursue graduate education across Canada and internationally. While our Advanced students are generally quite successful in their graduate school applications, an Honours degree better reflects the nature of the training and education they receive and will make them more competitive for both admissions and funding. This is true for students pursuing professional programs like Law, Business, Communications, or City Planning, as well as those continuing on in the social sciences and humanities. GPE is a problem-focused interdisciplinary degree, designed to train students to understand, analyze, and communicate complex, social, economic, and environmental issues of relevance locally and internationally. An Honours program will enable the expansion of high-competence researchers, analysts, and communicators in the province, capable of contributing to community economic development, as well as policy analysis and development.

B-3.2 Describe the existing and anticipated post-secondary learning needs of students in Manitoba that this program addresses and responds to:

This program addresses the needs of GPE majors who would like to receive deeper interdisciplinary education to address key emergent issues at local and global scales. An Honours program provides a strong foundation and the crucial first step toward the post-graduate training required for many of the careers sought by GPE majors in government, the private sector, or in community and non-governmental organizations. For those entering the labour market immediately post-graduation, the Honours degree will better reflect the high-level work students are already doing in the Advanced degree, provide additional course-based and experiential learning at upper levels, and provide the critical thinking, communication, complex problem-solving, and analytical skills sought by employers.

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#### **B-4 Mode of Delivery**

B-4.1 Provide the total program length through one of the following measures:

- 120 Total credit hours
- Total contact hours
- Total courses

B-4.2 What proportion of the total program length (as indicated above) can be completed through the two following modes of delivery? *(Note that one or both selections can be offered up to the total program length.)*

100% In-person

Online Note: There are no plans for a delineation of number of credit hours according to delivery mode. Students will be able to complete as many online course offerings (including required and elective courses) as are available.

**B-5 Provide an overview of the suggested progression of courses on a year-by-year basis for the program from start to maturity.** (Course level detail is not necessary, however, please include credit hours/contract hours, proportion of upper level courses, clinical placements or practicums, or subject area requirements where applicable)

The coursework for Honours students is outlined below and a list of courses is appended to this form. All coursework is already being offered for students through the existing GPE degree programs. Those enrolled in the Honours program will be expected to complete more courses at the 4000 level, and to maintain a higher grade point average.

**Honours**

In year 1, students will take GPE 1700 (3ch); ECON 1010 or ECON 1210 (3ch); ECON 1020 or ECON 1220 (3 ch) plus 6ch of History courses at the 1000 or 2000 level, and POLS 2602

In year 2, students will take GPE 2700 (3ch), ECON 2450 (3ch), ECON 2550 (3ch), ANTH 2000 (3ch) and 6ch of research methods.

In year 3, students will complete GPE 3700, POLS 3270, ANTH 3320, POLS 3250 or ANTH 3750, and 3ch from a list of selected Sociology courses.

In year 4, students will complete GPE 4700 (6ch) plus 9 more credits at the 4000 level in GPE, ECON, POLS, HIST, ANTH, or SOC.

**UM INTERNAL REQUIREMENT:** please complete the chart below to provide an overview of suggested progression through the program (indicate pre-requisites and related credit hours). Outline options for specializations within this program [minor(s) and/or concentration(s)].

## GPE Single Honours

Year 1		Hours
6 credit hours from the following:		6
<u>HIST 1370</u>	Modern World History: 1500-1800 (M)	
<u>HIST 1380</u>	Modern World History: 1800-Present (M)	
<u>HIST 2730</u>	Modern World History, 1914-1945: The 30 Years' Crisis (M)	
<u>HIST 2732</u>	Modern World History, 1945-1992: The Age of Three Worlds (M)	
<u>HIST 2734</u>	Modern World History, 1980-Present: New World Order? (M)	
Select one of the following pairs of Introductory Economics courses:		6
<u>ECON 1010</u> & <u>ECON 1020</u>	Introduction to Microeconomic Principles and Introduction to Macroeconomic Principles	
or both of:		
<u>ECON 1210</u> & <u>ECON 1220</u>	Introduction to Canadian Economic Issues and Policies and Introduction to Global and Environmental Economic Issues and Policies	
<u>GPE/GEOG 1700</u>	Social Justice in the 21st Century: Global Political Economy and Environmental Change	3
<u>POLS 2602</u>	Introduction to Comparative Politics	3
12 credit hours of open electives <sup>1,2</sup>		12
<b>Hours</b>		<b>30</b>
Year 2		
<u>ANTH 2000</u>	Culture, Society, and Power <sup>1</sup>	3

<u>ECON 2540</u>	Political Economy 1: Production and Distribution	3
<u>ECON 2550</u>	Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment	3
<u>GPE 2700</u>	Perspectives on Global Political Economy	3
Select one of the following pairs of courses: <sup>2</sup>		6
Both of		
<u>SOC 2292</u> & <u>SOC 2294</u>	Understanding Social Research and Understanding Social Statistics	
or both of:		
<u>ANTH 3930</u> & <u>STAT 1000</u>	Ethnographic Research Methods and Basic Statistical Analysis 1	
3 credit hours from List A		3
9 credit hours of open electives <sup>1,2,3</sup>		9
<b>Hours</b>		<b>30</b>

### Year 3

Select one of the following:		
<u>ANTH 3320</u>	Women in Cross-Cultural Perspective <sup>1</sup>	3
<u>SOC 3350</u>	Feminism and Sociology Theory <sup>2</sup>	
<u>SOC 3810</u>	Sociological Perspectives on Gender and Sexuality <sup>2</sup>	
<u>GPE 3700</u>	A Survey of Global Political Economy	3
<u>POLS 3250</u> or <u>ANTH 3750</u>	International Political Economy- <sup>3</sup> or Anthropological Perspectives on Globalization and the World-System	3
<u>POLS 3270</u>	Theories of the Capitalist World Order <sup>3</sup>	3
Select one of the following:		3
<u>SOC 3380</u>	Power, Politics and the Welfare State	
<u>SOC 3838</u>	Ecology and Society	
<u>SOC 3840</u>	Community and Social Reconstruction	
<u>SOC 3890</u>	Power and Inequality in Comparative Perspective	
3 credit hours from List A		3
12 credit hours of open electives		12
<b>Hours</b>		<b>30</b>

### Year 4

<u>GPE 4700</u>	Studies in Global Political Economy	6
9 credit hours of 4000 level credit from the following subject fields: GPE, ECON, POLS, HIST, ANTH, SOC, or courses from other departments with permission of the Program Coordinator.		9
3 credit hours from List A		3
12 credit hours of open electives		12
Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation		

<b>Hours</b>	<b>30</b>
<b>Total Hours</b>	<b>120</b>

- <sup>1</sup> 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 from the Anthropology Department Head prior to registration.
- <sup>2</sup> Students are advised to take [SOC 1000](#) as an elective in Year 1 as it is the prerequisite for upper level Sociology courses.
- <sup>3</sup> Students are advised to take [POLS 2502](#) as an elective in Year 2 as it is the prerequisite for upper level Political Studies courses. Otherwise, students will require written consent from the Political Studies Department Head prior to registration.

**While completing the courses listed above, students in the B.A. Honours Degree must satisfy the University's Written English (W) and Mathematics (M) requirements, plus the following Faculty requirements in order to graduate:**

**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.

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, 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 are found under each [department](#).
2. In order to graduate, a student in the B.A. Honours Degree program must satisfy the University of Manitoba [residency requirements](#) and attain a minimum degree grade point average of 3.0.
3. Included among the courses presented for graduation there must be at least six credit hours completed in each of [five different subject fields](#).
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](#), at least six credit hours from the list of courses that satisfy the Bachelor of Arts [Science](#) requirement, and at least three credit hours from the list of courses that satisfy the [Indigenous Content](#) requirement.

**List A**

**FACULTY OF ARTS**

<b>Course</b>	<b>Title</b>	<b>Hours</b>
<b>Anthropology</b>		
ANTH 2530	Anthropology of Political Systems	3
ANTH 3320	Women in Cross-Cultural Perspective <sup>1</sup>	3
ANTH 3750	Anthropological Perspectives on Globalization and the World-System	3
<b>Economics</b>		

Course	Title	Hours
ECON 2630	An Introduction to the World's Economies	6
<b>History</b>		
HIST 1370	Modern World History: 1500-1800 (M)	3
HIST 1380	Modern World History: 1800-Present (M)	3
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 (M)	3
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	3
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	3
HIST 3580	Topics in Recent World History (M) <sup>1</sup>	3
Acceptable for credit only when the topic is "Global Economic Crises in World History, 1929-Present"		
<b>Political Studies</b>		
POLS 2502	Introduction to World Affairs	3
POLS 3250	International Political Economy	3
POLS 3810	Introduction to Marxism	3
<b>Sociology and Criminology</b>		
SOC 2240	Sociology of Globalization	3
SOC 3350	Feminism and Sociological Theory	3
SOC 3380	Power, Politics and the Welfare State	3
SOC 3838	Ecology and Society	3
SOC 3810	Sociological Perspectives on Gender and Sexuality	3
SOC 3840	Community and Social Reconstruction	3
SOC 3890	Power and Inequality in Comparative Perspective	3

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**B-6 Will the program be available for part-time study?**

Yes, this program will be available for part-time study.

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**B-7 Indicate if this program will have a cooperative education, work placement, internship or practicum component and provide any relevant details:**

The Labour Studies/GPE Field Placement and Seminar (GPE 4510 and 4520) offer students the option of field placements in appropriate workplaces, including community organizations, non-profits, government, private sector employers, labour unions, think-tanks, or professional associations. Students have the option to take these courses to satisfy the 9 credit hours of 4000-level requirements of year 4.

---

**B-8 Intake Information**

B-8.1 Projected enrolment for the first intake: 14 (first year students cannot declare GPE as a major due to prerequisites. We anticipate 1 from the 2<sup>nd</sup> year cohort, 5 from the 3<sup>rd</sup> year cohort, and 7 from the 4<sup>th</sup> year cohort.

B-8.2 Maximum seat capacity (*Defined as first-year enrolment capacity*): 18 students

B-8.3 Anticipated date of maturity: by year one, given that it will be possible for students to apply to the Honours program at different years of their program.

**UM INTERNAL REQUIREMENT:** please indicate the projected enrolment and graduates for the first 5 years of the program.

	Year 1	Year 2	Year 3	Year 4	Year 5
Enrolments	14	16	16	16	16
Graduates		8	8	8	8

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**C-1 Describe how this new program aligns with the strategic plans of your institution:**

This program aligns with the first of five strategic priorities identified for the University of Manitoba in the Strategic plan “Taking Our Place.” The priority of “Inspiring Minds” sets out to ensure an outstanding educational experience for undergraduate students by supporting a range of liberal arts programs (among others). Given that an Honours Program in GPE does not require additional resources, but offers students who want to deepen their understanding of Global Political Economy or one of its dimensions with an additional option, it optimizes their experience as undergraduate students.

**C-2 Outline the internal approval process (i.e. committees, governing bodies) for approving this new program of study within your institution and indicate any dates of decision.** *(Governing Council, Board of Governors, Board of Regents, Senate, other)*

**UM INTERNAL REQUIREMENTS:** Please note date(s) of Faculty/College/School Approval. Approval dates through the governing bodies will be inserted by the Provost’s Office prior to submission to government.

**UM Undergraduate Programs:**

<u>Decision-Making Body</u>	<u>Date of Approval</u>
Faculty/College/School	_____
SCCC	_____
SPPC	_____
SCADM <i>(if applicable)</i>	_____
SCIE <i>(if applicable)</i>	_____
Senate Executive	_____
Senate	_____
Board of Governors	_____

**UM Graduate Programs:**

<u>Decision-Making Body</u>	<u>Date of Approval</u>
APC <i>(preliminary review)</i>	_____
External Review	_____
APC	_____
FGS Executive	_____
FGS Faculty Council	_____
SPPC	_____
Senate Executive	_____
Senate	_____
Board of Governors	_____

**C-3 Responsibility to consult**

C-3.1 If this program subject to mandatory review or approval by organizations external to the institution *(such as regulatory bodies, Apprenticeship Manitoba, etc.)*, please describe any consultation processes and provide copies of reports or letter from these organizations providing support:

N/A

C-3.2 What agencies, groups, or institutions have been consulted regarding the development of this program?

*Note: this includes any consultation with internal UM units, academic or otherwise.*

Faculty of Arts



**C-3.3 How have students and faculty been informed of the intent to establish this program?**

Undergraduate students in GPE have been consulted via their student group, the GPESA, as well as through surveys of the students conducted prior to the Undergraduate Program review in 2018. The GPE program currently has only one cross-appointed faculty member, but coordinates faculty members who teach and supervise GPE students across the participating departments through a Steering Committee, which also includes a student representative. The Steering Committee has been consulted and agree enthusiastically to the establishment of the Honours option. The creation of an Honours program has been contemplated and discussed for many years, but was spurred on by a strong recommendation to do so from our Undergraduate Program Review undertaken in 2018.

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**C-4 List any similar programs offered in Manitoba:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

*Note: this includes any programs currently offered at UM.*

There are no other Honours degree programs in GPE in Manitoba, nor in any broadly comparable program in the province. GPE, as an interdisciplinary program drawing on the cooperation of 5 departments, is fairly unique. This will be the only program of its kind in the province.

**C-4.1 Describe any specific laddering, articulation and/or credit transfer options for students that are anticipated in this program in Manitoba.**

Credit transfer options are determined through established processes at the University. Following the current practice, the GPE will continue to work with the Faculty of Arts to assess undergraduate courses from other postsecondary institutions in Manitoba (or elsewhere) for transfer credit on a case-by-case basis.

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**C-5 List any similar programs offered in Canada:** *(Provide such information as institution, programs, and credentials offered in addition to any impacts on these programs, explain rationale for duplication.)*

GPE is unique both in Manitoba and in Canada. There are a few broadly comparable programs at universities in other provinces. Examples include University of Victoria's Social Justice Studies Program; The Department of Social Justice Education at OISE, University of Toronto; and Athabasca University's BA in Political Economy.

**C-5.1 Describe any specific laddering, articulation and/or credit transfer options for students that are anticipated in this program in Canada.**

Credit transfer options are determined through established processes at the University. Following the current practice, the GPE will continue to work with the Faculty of Arts to assess undergraduate courses from other postsecondary institutions in Canada for transfer credit on a case-by-case basis.

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**C-6 Describe the current and projected labour market demands in Manitoba for graduates of this Program:**

*(Provide such information as probable employment destinations or further educational opportunities available to graduates of this new program of study. Attach any formal reports such as those from Associations, Statistics Canada, Sector Councils, Industry or Regulators.)*

The GPE program provides an interdisciplinary approach to understanding the pressing issues facing societies at local and global scales. GPE students are rigorously trained in conceptualizing connections between global political and economic forces and local issues such as poverty, employment, public health, housing, environmental transformations, economic development, and social inequalities. GPE students develop high-level research, critical thinking, analytical, and communication skills that are and will continue to be relevant and necessary for Manitoba employers. Demand for graduates capable of comprehending the complex, multi-scalar intersections of ecological, social, economic, and political systems is expected to grow significantly. We see this as private and public sector employers scramble to respond to the global coronavirus pandemic, but also as they respond to localized manifestations of global social and economic pressures, and to global environmental concerns such as climate change. Organizations across sectors are increasingly called to confront and address issues like structural racism, the imperative of reconciliation, rising inequality, public health emergencies, and environmental degradation—most critically the crises of biodiversity collapse and climate change. In doing so, they will require people capable of engaging on their behalf with Environmental, Social, and Governance (ESG) issues in order to gain or maintain financing, as well as legal and social licenses to operate. The interdisciplinary problem-oriented skill set of GPE graduates will support the province it aims to build a stable, sustainable society in which all enjoy a shared basis for flourishing. It can also be applied nationally and internationally with intergovernmental organizations, non-governmental organizations, and development agencies as humanity seeks to find a path forward through multiple challenges to achieving the UN Sustainable Development Goals. An informal survey of GPE graduates shows that a high proportion successfully pursue post-graduate work in professional schools and social-science disciplines, and go on to fruitful careers in a huge diversity of fields. A sample of recent graduate careers includes policy analysts working for Transport Canada, Statistics Canada, Global Affairs, the International Institute for Sustainable Development, Environment and Climate Change Canada, outreach and communication specialists working for elected officials, for Treasury Board, or for private sector research firms, City Planners, strategy and programs officers for financial firms, university faculty, financial advisors, Development officers working internationally, and elected officials.

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**C-7 If copies of any internal or peer evaluations with respect to this new program of study are being provided with this proposal, please indicated how any issues identified by these evaluations have been addressed and attach any relevant documents as available:**

N/A

**D-1 If one-time or pilot funding are being requested to support this new program of study, please identify the amount of funding being requested:**

N/A

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**D-2 If ongoing funding being requested to support this new program of study, please identify the amount of funding being requested:**

N/A

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**D-3 If new funding is not being requested, how will the program be funded?**

The new program will be funded with existing resources and tuition revenue. Additional requirements for the Honours designation are already being offered, and will result in a small increase in course enrolment in existing 4000-level classes.

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**D-4 List any external sources of funding that will be used to support the implementation or delivery of this new program of study:** *(Provide such information as agreements for funding from industry or external grants and indicate the anticipated length of time for each agreement.)*

N/A

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**D-5 What are the resource implications to the institution (budget, IT, library, laboratory, computer, space, practicum liability insurance, student services, etc) in delivering this new program of study?**

No new resources will be required. We anticipate costs to remain similar to current program costs and are not requesting new funds as part of this process.

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**D-6 Please describe new and existing staffing resources needed to provide this new program of study.** *Include reallocation of existing faculty, hiring of new faculty, administrative and support services and any other considerations.*

No new staffing will be required, as all additional course requirements for the Honours program are already offered by the participating departments, or by GPE. There will be some additional workload for individual faculty members teaching existing courses that will experience a small enrolment increase. We anticipate that depending on the number of appropriate 4000-level courses offered in any year, this increase would be between 0 and 4 students for any given 4000-level course. Anticipated administrative and advising support is within the current capacity of the Department and the Faculty of Arts. Currently, GPE has two faculty members with specific teaching duties in GPE. One of these (Dr. Jenner) is cross-appointed with the Department of Economics, and the other (Dr. Hudson) is cross-appointed with Sociology. Dr. Jenner teaches 3 credits per year in GPE, normally GPE 3700. Dr. Hudson teaches 6 credits per year in GPE,

normally GPE 4700. Dr. Hudson also currently serves as the Program Coordinator, for which he receives 3 credits of teaching release. GPE 2700 is co-taught by 5 Instructors, each of whom receives \$850 of additional PDA funds as compensation. Instruction for GPE 1700 is split between faculty in Environment and Geography and the Faculty of Arts, each unit being responsible in alternating years. Required courses for GPE majors that are offered through Economics, Sociology, Anthropology, History, and Political Studies are taught by faculty in those departments. GPE also has 10 hours per week of administrative assistance, through the administrative staff in the Department of Sociology.

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**D-7 Provide a program implementation plan for the new program of study by academic year (start to maturity) that includes any elements to be phased in (e.g., new faculty hires, distribution of existing faculty and support staff) from launch to maturity:**

Our program implementation plan does not involve any changes or additions to our required course offerings. The required and elective courses at each of the 1000, 2000 and 3000 levels remain unchanged, as does the existing requirement of GPE 4700. Students in the current Advanced Degree program who opt for the Honours program will, in their final year, be required to select an additional 9 ch at the 4000 level.

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**D-8 Please describe the effect of this new program on existing capital infrastructure and equipment:**

N/A

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**D-9 If capital funding is being requested to support additional specialized program materials such as infrastructure or equipment required to provide this new program of study, please provide a detailed description of the use of this capital:**

N/A

## SECTION E– TUITION

### **E-1 What are the proposed tuition fees?**

The tuition fees will be the same as for other four-year degree programs in the Faculty of Arts. Students will be assessed the per credit hour tuition rate of the teaching unit of each course.

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**E-2 Please provide a rationale for the tuition fee proposed.** (*For example, are these tuition fees comparable to tuition for existing programs within the academic unit or to tuition for similar programs offered at other institutions?)*

N/A

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### **E-3 Please describe any additional fees that would apply to a student in this program?**

**UM INTERNAL REQUIREMENTS:** Please note any new course-fees proposed in support of this program. Please provide a rationale for any new fees. Are these fees comparable to fees for existing programs within the academic unit or for similar programs offered at other institutions?

No new fees are being introduced as part of this proposal. Students will be assessed the general university fees that apply to all undergraduate students in the Faculty of Arts.

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### **E-4 Please describe any specific supports to encourage affordability and accessibility to the program:**

Students in GPE will have access to the same supports to encourage accessibility and affordability as other Arts students. GPE also has a modest, program-specific bursary which goes to a GPE major with demonstrated financial need.

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**SECTION F – SIGNATURES**

*(A second signature section is provided for joint programs only)*

**SUBMITTED BY:**

**President:**

Name:

Signature:

Date:

**Vice-President/Academic:**

Name:

Signature:

Date:

*For use by joint programs only:*

**President:**

Name:

Signature:

Date:

**Vice-President/Academic:**

Name:

Signature:

Date:

**SUBMIT COMPLETED FORM**

**PROVOST’S OFFICE ONLY** Once completed and signed, please submit this application form to Post-Secondary Education and Labour Market Outcomes at PSE-LMO@gov.mb.ca with the following attachments *(double-click to engage check box)*:

- Cover letter
- Program of Study Financial Form
- Any supporting documentation *(reviews, letters of support, etc.)*

**If you have any questions or require further information, please contact:**

Post-Secondary Education and Labour Market Outcomes  
Manitoba Education and Training  
400-800 Portage Avenue Winnipeg MB R3C 0C4  
(204) 945-1833  
PSE-LMO@gov.mb.ca



**Post-Secondary Education and Labour Market Outcomes  
Program Proposal Financial Form**

**Form Instructions:**

1. When proposing a new program *Current Fiscal Year* (the first column) should be left blank, with the first year of the program starting in year 1.
2. When proposing a new program expansion *Current Fiscal* should be entered in the first column.
3. If a program reaches maturity prior to *Fiscal Year 4*, remaining fiscal year columns must still be completed so that *Ongoing Program Funding* can be calculated.
4. Fill in line items for revenue, expenditure, and capital as these pertain to the program. Examples are correspondently listed to the right of the table.
5. Ensure that line items account for overhead. For example, include the amount of tuition that the program will receive after administrative overhead.
6. Only fill out areas shaded in green, using cash accounting. The increment, on-going and total will self-populate accordingly.

Overview	
<b>Institution:</b>	University of Manitoba
<b>Program Name:</b>	Global Political Economy (Program), Faculty of Arts
<b>Contact Information:</b>	
<b>Date:</b>	

	Current Fiscal Year	Fiscal Year 1	Increment	Fiscal Year 2	Increment	Fiscal Year 3	Increment	Fiscal Year 4	Increment	Ongoing Program Funding
	(Enter 0's if new program)	Budget Yr. 1	(change from current year to year 1)	Budget Yr. 2	(change from year 1 to year 2)	Budget Yr. 3	(change from year 2 to year 3)	Budget Yr. 4	(change from year 3 to year 4)	
<b>REVENUE INFORMATON</b>										
Contribution from Institution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tuition	\$ 59,464	\$ 55,366	\$ (4,098)	\$ 65,648	\$ 10,282	\$ 68,110	\$ 2,462	\$ 70,664	\$ 2,554	\$ 70,664
Student Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution from Unit (Existing Resources)	\$ -	\$ 214,724	\$ 214,724	\$ 222,046	\$ 7,323	\$ 229,626	\$ 7,579	\$ 237,470	\$ 7,844	\$ 237,470
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
<b>Total Revenue (A)</b>	<b>\$ 59,464</b>	<b>\$ 270,089</b>	<b>\$ 210,626</b>	<b>\$ 287,694</b>	<b>\$ 17,605</b>	<b>\$ 297,735</b>	<b>\$ 10,041</b>	<b>\$ 308,134</b>	<b>\$ 10,399</b>	<b>\$ 308,134</b>

MEDT Form

<b>Institution:</b>	University of Manitoba
<b>Program Name:</b>	Global Political Economy (Program), Faculty of Arts
<b>Contact Information:</b>	
<b>Date:</b>	

	Current Fiscal Year	Fiscal Year 1	Increment	Fiscal Year 2	Increment	Fiscal Year 3	Increment	Fiscal Year 4	Increment	Ongoing Program Funding
	(Enter 0's if new program)	Budget Yr. 1	(change from current year to year 1)	Budget Yr. 2	(change from year 1 to year 2)	Budget Yr. 3	(change from year 2 to year 3)	Budget Yr. 4	(change from year 3 to year 4)	
<b>EXPENDITURE INFORMATON</b>										
New Academic Salaries - Direct	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Academic Salaries - Direct	\$ 168,670	\$ 178,570	\$ 9,900	\$ 184,820	\$ 6,250	\$ 191,288	\$ 6,469	\$ 197,983	\$ 6,695	\$ 197,983
New Professional/Support Salaries - Direct		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Professional/Support Salaries - Direct	\$ 3,042	\$ 3,042	\$ -	\$ 3,148	\$ 106	\$ 3,259	\$ 110	\$ 3,373	\$ 114	\$ 3,373
Operating Expenses	\$ 5,500	\$ 5,500	\$ -	\$ 5,500	\$ -	\$ 5,500	\$ -	\$ 5,500	\$ -	\$ 5,500
Student Support		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Indirect Salary Expenses	\$ 4,250	\$ 27,612	\$ 23,362	\$ 28,578	\$ 966	\$ 29,579	\$ 1,000	\$ 30,614	\$ 1,035	\$ 30,614
Administrative Overhead	\$ 7,771	\$ 55,366	\$ 47,595	\$ 65,648	\$ 10,282	\$ 68,110	\$ 2,462	\$ 70,664	\$ 2,554	\$ 70,664
			\$ -		\$ -		\$ -		\$ -	\$ -
			\$ -		\$ -		\$ -		\$ -	\$ -
<b>Total Expenditures (B)</b>	<b>\$ 189,233</b>	<b>\$ 270,089</b>	<b>\$ 80,856</b>	<b>\$ 287,694</b>	<b>\$ 17,605</b>	<b>\$ 297,735</b>	<b>\$ 10,041</b>	<b>\$ 308,134</b>	<b>\$ 10,399</b>	<b>\$ 308,134</b>





**SENATE PLANNING AND PRIORITY COMMITTEE (SPPC)  
New Program Approval - Financial Form**

**FACULTY / SCHOOL** Faculty of Arts  
**PROGRAM** Global Political Economy

<b>1. STAFFING REQUIREMENTS (FTE)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
New Academic Positions (FTE) (Appendix A)	-	-	-	-	-
New Professional and Support Positions (FTE) (Appendix A)	-	-	-	-	-
New Indirect Staff (FTE) (Appendix A)	-	-	-	-	-
<b>Subtotal Staffing Requirements (FTE)</b>	-	-	-	-	-

**2. PROGRAM COSTS**

<b>Direct Program Costs</b>					
New Academic Salaries (incl bpl) (Appendix A)	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Academic Salaries (incl bpl) (Appendix A)	178,570	184,820	191,288	197,983	204,913
New Professional/Support Salaries (incl bpl) (Appendix A)	-	-	-	-	-
Existing Professional/Support Salaries (incl bpl) (Appendix A)	3,042	3,148	3,259	3,373	3,491
Operating Expenses (Appendix B)	5,500	5,500	5,500	5,500	5,500
Student (Graduate/Undergraduate) Support (Appendix C)	-	-	-	-	-
Major Equipment (Appendix D)	-	-	-	-	-
Vehicles (Appendix D)	-	-	-	-	-
Renovations (Appendix D)	-	-	-	-	-
Furniture (Appendix D)	-	-	-	-	-
Other Capital (Appendix D)	-	-	-	-	-
<b>Subtotal Direct Program Costs</b>	\$ 187,112	\$ 193,468	\$ 200,047	\$ 206,856	\$ 213,903

**Indirect Program Costs**

New Indirect Salary Expenses (incl bpl) (Appendix A)	\$ -	\$ -	\$ -	\$ -	\$ -
Existing Indirect Salary Expenses (incl bpl) (Appendix A)	27,612	28,578	29,579	30,614	31,685
Tax on Grant and Tuition Revenue	-	-	-	-	-
Administrative Overhead	-	-	-	-	-
<b>Subtotal Indirect Program Costs</b>	<b>\$ 27,612</b>	<b>\$ 28,578</b>	<b>\$ 29,579</b>	<b>\$ 30,614</b>	<b>\$ 31,685</b>

<b>Total Program Costs</b> (Direct & Indirect)	<b>\$ 214,724</b>	<b>\$ 222,046</b>	<b>\$ 229,626</b>	<b>\$ 237,470</b>	<b>\$ 245,589</b>
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<b>3. ENROLMENT</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
<b>Expected Enrolment (headcount)</b>	14	16	16	16	16
<b>Expected Enrolment (credit hours)</b>	420	480	480	480	480

**4. PROGRAM REVENUE ALLOCATED TO FACULTY/SCHOOL**

Operating Grant Revenue (see note)					
Tuition Revenue (Appendix E)					
• Credit Hour Based					
Undergraduate	-	-	-	-	-
Graduate	-	-	-	-	-
• Program Based	-	-	-	-	-
• Program/Course Specific Fees	-	-	-	-	-
• Other Compulsory Student Fees	-	-	-	-	-
Other revenue	-	-	-	-	-
<b>Total Program Revenue</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**5. EXISTING RESOURCES**

From Operations:					
Academic Salaries (Appendix A)	\$ 178,570	\$ 184,820	\$ 191,288	\$ 197,983	\$ 204,913
Professional and Support Salaries (Appendix A)	3,042	3,148	3,259	3,373	3,491
Indirect Salaries (Appendix A)	27,612	28,578	29,579	30,614	31,685
Current/prior years surplus (carryover)	5,500	5,500	5,500	5,500	5,500
From Other Sources:					
<b>Subtotal Existing Resources</b>	<b>\$ 214,724</b>	<b>\$ 222,046</b>	<b>\$ 229,626</b>	<b>\$ 237,470</b>	<b>\$ 245,589</b>

SPPC Form

<b>6. Program shortfall (surplus)</b> (Program Costs -Program Revenue - Existing Resources)	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Internal Funds Requested through Strategic Allocation</b>					
<b>Funds Requested of the Provincial Government</b>					
<b>Balance (should be zero)</b>	\$ -	\$ -	\$ -	\$ -	\$ -



Digitally signed by Jeffrey Conquergood  
Date: 2021.05.14 16:19:29 -05'00'

Submitted by Faculty/School Budget Officer (signature)

Date

Reviewed by Graduate Studies Business Manager

(For graduate program submissions only)

Date

Chester Wojciechowski

Digitally signed by Chester Wojciechowski  
DN: cn=Chester Wojciechowski, o=University of Manitoba, ou=Financial  
Planning Office, email=chester.wojciechowski@umanitoba.ca, c=CA  
Date: 2021.05.14 16:15:41 -05'00'

Reviewed by University Budget Officer (signature)

Date

Average Salary Increase 3.5%  
 Average Benefits and Pay Levy 20%

Appendix A - Salary Expenses

**SENATE PLANNING AND PRIORITY COMMITTEE  
 NEW PROGRAM APPROVAL PROCESS**

NEW	Year 1		Year 2		Year 3		Year 4		Year 5	
	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary	FTE	Total Salary
Academic										
Excluded Academic Admin	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professor	-	-	-	-	-	-	-	-	-	-
Assoc/Asst Professor or Senior Instructor	-	-	-	-	-	-	-	-	-	-
Lecturer/Instructor/Sessionals	-	-	-	-	-	-	-	-	-	-
Librarians	-	-	-	-	-	-	-	-	-	-
Teaching Assistants	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Academic Salaries</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Academic Salaries (including BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professional and Support Staff										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	-	-	-	-	-	-	-	-	-	-
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Professional and Support Staff</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Professional and Support Staff (incl. BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Indirect Staff (Within your faculty/school)										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal New Indirect Staff</b>	-	-	-	-	-	-	-	-	-	-
Benefits and Pay Levy	-	-	-	-	-	-	-	-	-	-
<b>Total New Indirect Staff (including BPL)</b>	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
<b>Total New Staff</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>

Appendix A - Salary Expenses

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<b>EXISTING</b> (Within your faculty/school)	<b>Year 1</b>		<b>Year 2</b>		<b>Year 3</b>		<b>Year 4</b>		<b>Year 5</b>	
	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>	<b>FTE</b>	<b>Total Salary</b>
<b>Academic</b>										
Excluded Academic Admin	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Professor	0.20	29,426	0.20	30,456	0.20	31,522	0.20	32,625	0.20	33,767
Assoc/Asst Professor or Senior Instructor	0.85	94,882	0.85	98,203	0.85	101,640	0.85	105,197	0.85	108,879
Lecturer/Instructor/Sessionals	0.30	24,500	0.30	25,358	0.30	26,245	0.30	27,164	0.30	28,114
Librarians	-	-	-	-	-	-	-	-	-	-
Teaching Assistants	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Academic Salaries</b>	<b>1.35</b>	<b>148,808</b>	<b>1.35</b>	<b>154,016</b>	<b>1.35</b>	<b>159,407</b>	<b>1.35</b>	<b>164,986</b>	<b>1.35</b>	<b>170,761</b>
Benefits and Pay Levy		29,762		30,803		31,881		32,997		34,152
<b>Total Existing Academic Salaries (including BPL)</b>	<b>1.35</b>	<b>\$ 178,570</b>	<b>1.35</b>	<b>\$ 184,820</b>	<b>1.35</b>	<b>\$ 191,288</b>	<b>1.35</b>	<b>\$ 197,983</b>	<b>1.35</b>	<b>\$ 204,913</b>
<b>Professional and Support Staff</b>										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	0.05	2,535	0.05	2,624	0.05	2,716	0.05	2,811	0.05	2,909
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Professional and Support Staff</b>	<b>0.05</b>	<b>2,535</b>	<b>0.05</b>	<b>2,624</b>	<b>0.05</b>	<b>2,716</b>	<b>0.05</b>	<b>2,811</b>	<b>0.05</b>	<b>2,909</b>
Benefits and Pay Levy		507		525		543		562		582
<b>Total Existing Professional and Support Staff (incl. BPL)</b>	<b>0.05</b>	<b>\$ 3,042</b>	<b>0.05</b>	<b>\$ 3,148</b>	<b>0.05</b>	<b>\$ 3,259</b>	<b>0.05</b>	<b>\$ 3,373</b>	<b>0.05</b>	<b>\$ 3,491</b>
<b>Indirect Staff</b>										
EMAPS	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
AESES	0.35	23,010	0.35	23,815	0.35	24,649	0.35	25,512	0.35	26,405
CUPE TA's	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Existing Indirect Staff</b>	<b>0.35</b>	<b>23,010</b>	<b>0.35</b>	<b>23,815</b>	<b>0.35</b>	<b>24,649</b>	<b>0.35</b>	<b>25,512</b>	<b>0.35</b>	<b>26,405</b>
Benefits and Pay Levy		4,602		4,763		4,930		5,102		5,281
<b>Total Existing Indirect Staff (including BPL)</b>	<b>0.35</b>	<b>\$ 27,612</b>	<b>0.35</b>	<b>\$ 28,578</b>	<b>0.35</b>	<b>\$ 29,579</b>	<b>0.35</b>	<b>\$ 30,614</b>	<b>0.35</b>	<b>\$ 31,685</b>
<b>Total Existing Staff</b>		<b>\$ 209,224</b>		<b>\$ 216,546</b>		<b>\$ 224,126</b>		<b>\$ 231,970</b>		<b>\$ 240,089</b>
<b>GRAND TOTAL</b>		<b>\$ 209,224</b>		<b>\$ 216,546</b>		<b>\$ 224,126</b>		<b>\$ 231,970</b>		<b>\$ 240,089</b>

**App B - Operating Exp.**

**Appendix B - Operating Expenses**

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<u>Direct Expenses</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
700BGT	Travel - Budget (includes visiting speakers, orientation, research day)	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
701BGT	Hospitality - Budget	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500
704BGT	Printing and Duplicating - Budget	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
706BGT	Consumable Materials/Supplies Budget (includes computers)	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
708BGT	Telecommunications - Budget	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ 1,500
710BGT	Other Expenses (Nonconsumable) Budget	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500
713BGT	Insurance - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
716BGT	Externally Contracted Serv - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
718BGT	Professional Fees - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
740BGT	Repairs and Maintenance - Budget	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal Direct Operating</b>		<b>\$ 5,500</b>	<b>\$ 5,500</b>	<b>\$ 5,500</b>	<b>\$ 5,500</b>	<b>\$ 5,500</b>

**Appendix C - Student Support**

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

<u>Graduate / Undergraduate Support Expense</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
7700	Scholarships	\$ -	\$ -	\$ -	\$ -	\$ -
7710	Bursaries	\$ -	\$ -	\$ -	\$ -	\$ -
7720	Awards					
<b>Subtotal Operating</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>



Appendix D - Capital Costs

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

Capital Item	Year 1			Year 2			Year 3			Year 4			Year 5		
	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total	QTY	Unit Cost	Total
Major Equipment	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Vehicles	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Renovations	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Furniture	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	-	\$ -	\$ -
Other ( <i>list</i> )			-			-			-			-			-
...															
<b>Subtotal Operating</b>		<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>			<u>\$ -</u>	

Appendix E - Tuition

Fee Increase

3.8%

**SENATE PLANNING AND PRIORITY COMMITTEE  
NEW PROGRAM APPROVAL PROCESS**

1. EXPECTED ENROLMENT	Year 1	Year 2	Year 3	Year 4	Year 5
<b>Headcount</b>					
Undergraduate	14	16	16	16	16
Graduate					
Graduate (continuing only)					
<b>Credit Hours</b>					
Undergraduate	420	480	480	480	480
Graduate					

2. TUITION REVENUE GENERATED BY THE PROGRAM					
• Credit Hour Based - (enter credit hour rate in yr 1)	\$ 132	\$ 137	\$ 142	\$ 147	\$ 153
Undergraduate	55,366	65,648	68,110	70,664	73,314
Graduate	-	-	-	-	-
• Program Based - (enter annual program fee in yr 1)	\$ -	\$ -	\$ -	\$ -	\$ -
Undergraduate	-	-	-	-	-
Graduate	-	-	-	-	-
<b>Total Tuition Fees</b>	<b>\$ 55,366</b>	<b>\$ 65,648</b>	<b>\$ 68,110</b>	<b>\$ 70,664</b>	<b>\$ 73,314</b>
• Continuing Fee - (enter annual continuing fee in yr 2)		\$ -	\$ -	\$ -	\$ -
Graduate	-	-	-	-	-
• Program/Course Specific Fees					
Lab Fees - (enter amount in applicable years)	-				
Field Trip Fees - (enter amount in applicable years)	-				
(Fee description/rate )					
..... (add as required)...					
..... (add as required)...					
<b>Total Program/Course Specific Fees</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>TOTAL TUITION AND FEES GENERATED BY THE PROGRAM</b>	<b>\$ 55,366</b>	<b>\$ 65,648</b>	<b>\$ 68,110</b>	<b>\$ 70,664</b>	<b>\$ 73,314</b>
--	------------------	------------------	------------------	------------------	------------------

<b>3. TUITION REVENUE ALLOCATED TO THE FACULTY</b>					
• Credit Hour Based - Undergraduate (enter amount)					
• Credit Hour Based - Graduate	-	-	-	-	-
• Program Based	-	-	-	-	-
• Program/Course Specific Fees	-	-	-	-	-
• Other Compulsory Student Fees (enter amount)					
<b>TOTAL TUITION REVENUE ALLOCATED TO THE FACULTY</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

## Operating Worksheet

Acct	Expense	Year 1	Year 2	Year 3	Year 4	Year 5
<b>700BGT</b>	<b>Travel and Conferences</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7001	Travel Academic					
7002	Travel Administration					
7003	Relocation					
7004	Staff Recruitment					
7005	Field Trips					
7006	Team Travel					
7007	Local Travel					
7009	Student Recruitment					
7010	Student Travel					
7130	Airfare					
7131	Accommodation					
7132	Meals (Per Diem-No receipts)					
7133	Meals (with receipts)					
7134	Mileage (Km's)					
7135	Parking					
7136	Car Rental					
7137	Conference Registration					
7138	Taxis					
7139	Misc Travel/Incidentals					
7676	Hospitality					
<b>704BGT</b>	<b>Printing and Duplicating - Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7040	Printing					
7041	Copying					
<b>706BGT</b>	<b>Consumable Materials/Supplies Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7060	Office Supplies					
7061	Lab Supplies					
7062	Audio Visual Supplies					
7063	Agricultural Supplies					
7064	Safety Supplies					
7065	Sports and Athletic Supplies					
7066	Books and Subscriptions					
7067	Other Supplies					
7068	Computing Supplies					
7069	Maintenance and Cleaning Supplies					
7070	Dental Supplies					
7071	Equipment Foreign Operations					
7072	Supplies Foreign Operations					
<b>708BGT</b>	<b>Telecommunications - Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7080	IST Telecommunications					
7082	Physical Plant Postage					
7085	Departmental Communications					

**Operating Worksheet**

Acct	Expense	Year 1	Year 2	Year 3	Year 4	Year 5
<b>710BGT</b>	<b>Other Expenses (Nonconsumable) Budget</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7100	Affiliated Personnel Costs					
7101	Professional Development					
7102	Professional Memberships					
7103	Conferences/Events Hosted by U of M					
7104	Other Services					
7106	Bad Debts					
7107	Advertising and Promotion					
7108	Licenses and Permits					
7109	Software Maintenance					
7110	Staff Benefits					
7111	Other Non-Consumable Expenses					
7114	Internal Financing Expense					
7116	Internal Services Expense					
<b>718BGT</b>	<b>Professional and External Services</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7160	Externally Contracted Services					
7180	Professional Fees					
7185	Investment Management Expenses					
<b>740BGT</b>	<b>Repairs and Maintenance</b>	\$ -	\$ -	\$ -	\$ -	\$ -
7400	Equipment Repairs & Maintenance					
7401	Building Repairs & Maintenance					
7402	Equipment Rental					
7403	Grounds Maintenance					

## **GPE Course List**

### **ANTH 2000 Culture, Society, and Power 3 cr**

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 3320 Women in Cross-Cultural Perspective 3 cr**

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 3750 Anthropological Perspectives on Globalization and the World-System 3 cr**

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 3930 Ethnographic Research Methods 3 cr**

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. Prerequisite: [a grade of "C" or better in ANTH 2000] or written consent of instructor.

### **ECON 1010 Introduction to Microeconomic Principles 3 cr**

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 3 cr**

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 3 cr**

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 3 cr**

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.

**ECON 2540 Political Economy 1: Production and Distribution 3 cr**

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 3 cr**

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.

**GPE 1700 Social Justice in the 21st Century: Global Political Economy and Environmental Change 3 cr**

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 3 cr**

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 3 cr**

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 6 cr**

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.

**HIST 1370 Modern World History: 1500-1800 (M) 3 cr**

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 the former HIST 1500.

**HIST 1380 Modern World History: 1800-Present (M) 3 cr**

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 the former HIST 1500.

**HIST 2730 Modern World History, 1914-1945: The 30 Years' Crisis (M) 3 cr**

A global economic, social, political and cultural history of the twentieth century history from World War I to the eve of the Cold War, emphasising 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 (M) 3 cr**

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? (M) 3 cr**

A global, economic, social, political and cultural history of the twenty first century, emphasizing the ongoing 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.

**POLS 2602 Introduction to Comparative Politics 3 cr**

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 3250 International Political Economy 3 cr**

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 2502, or (POLS 2043 and 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 3 cr**

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 2502, or (POLS 2043 and POLS 2045), or the former POLS 2040, or the former POLS 2041] or written consent of instructor or department head.

**SOC 2292 Understanding Social Research 3 cr**

An overview of the tools social scientists employ to understand, interpret, critique, and conduct research in the social world. Topics include the production of knowledge, the research process, ethical considerations, conceptualization of research problems, measurement, and popular qualitative and quantitative methodologies. Students may not hold credit for both SOC 2292 and SOC 2291 or the former SOC 2290. Prerequisite: [a grade of "C" or better in SOC 1000 or the former SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

**SOC 2294 Understanding Social Statistics 3 cr**

Focus is on the various statistical procedures sociologists use when analyzing quantitative data. The course introduces students to basic statistical computations and analyses in order to develop an awareness of statistics in social research. Concentration is on what, when and how to apply and interpret relevant statistical techniques in order to answer specific research questions. Students may not hold credit for both SOC 2294 and SOC 2291 or the former SOC 2290. Prerequisite: SOC 2292.

**SOC 3350 Feminism and Sociological Theory 3 cr**

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 3380 Power, Politics and the Welfare State 3 cr**

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 1000 or the former SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221] or written consent of department head.

**SOC 3810 Sociological Perspectives on Gender and Sexuality 3 cr**

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 1000 or the former SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

**SOC 3838 Ecology and Society 3 cr**

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 1000 or the former 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 3 cr**

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 1000 or the former SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

**SOC 3890 Power and Inequality in Comparative Perspective 3 cr**

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 1000 or the former SOC 1200 or the former SOC 1201] or [a grade of "C" or better in both SOC 1211 and SOC 1221].

**STAT 1000 Basic Statistical Analysis 1 3 cr**

(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.

## GPE Single Honours – Program Introduction

Global Political Economy

**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/](http://umanitoba.ca/global_political_economy/)

### 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, and Honours 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 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 2730, HIST 2732, HIST 2734, POLS 2602.

For entry to Honours, the prerequisite is a grade of “B” 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 2730, HIST 2732, HIST 2734, POLS 2602.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see: Basic Faculty Regulations for the B.A. General, Advanced and Honours Degree Programs.

**Note:** Students who declare and complete a GPE Major will not be required to complete a separate field for a Minor for purposes of satisfying degree requirements. Students in the GPE programs may choose to declare a Minor; however, no course can be used to satisfy both a Major program requirement and a Minor requirement.

# Global Political Economy, B.A. Single Honours

<b>Year 1</b>		<b>Hours</b>
6 credit hours from the following:		6
HIST 1370	Modern World History: 1500-1800 (M)	
HIST 1380	Modern World History: 1800-Present (M)	
HIST 2730	Modern World History, 1914-1945: The 30 Years' Crisis (M)	
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	
Select one of the following pairs of Introductory Economics courses:		6
ECON 1010 & ECON 1020	Introduction to Microeconomic Principles and Introduction to Macroeconomic Principles	
or both of:		
ECON 1210 & ECON 1220	Introduction to Canadian Economic Issues and Policies and Introduction to Global and Environmental Economic Issues and Policies	
GPE/GEOG 1700	Social Justice in the 21st Century: Global Political Economy and Environmental Change	3
POLS 2602	Introduction to Comparative Politics	3
12 credit hours of open electives <sup>1,2</sup>		12
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
ANTH 2000	Culture, Society, and Power <sup>1</sup>	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
GPE 2700	Perspectives on Global Political Economy	3
Select one of the following pairs of courses: <sup>2</sup>		6
Both of:		
SOC 2292 & SOC 2294	Understanding Social Research and Understanding Social Statistics	
or both of:		
ANTH 3930 & STAT 1000	Ethnographic Research Methods and Basic Statistical Analysis 1	
3 credit hours from List A		3
9 credit hours of open electives <sup>1,2,3</sup>		9
<b>Hours</b>		<b>30</b>

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**Year 3**

Select one of the following: 3

ANTH 3320 Women in Cross-Cultural Perspective

SOC 3350 Feminism and Sociological Theory<sup>2</sup>

SOC 3810 Sociological Perspectives on Gender and Sexuality<sup>2</sup>

GPE 3700 A Survey of Global Political Economy 3

POLS 3250 International Political Economy 3

or ANTH 3750 or Anthropological Perspectives on Globalization and the World-System

POLS 3270 Theories of the Capitalist World Order 3

Select one of the following: 3

SOC 3380 Power, Politics and the Welfare State

SOC 3838 Ecology and Society

SOC 3840 Community and Social Reconstruction

SOC 3890 Power and Inequality in Comparative Perspective

3 credit hours from List A 3

12 credit hours of open electives 12

**Hours** **30**

**Year 4**

GPE 4700 Studies in Global Political Economy 6

9 credit hours of 4000 level credit from the following subject fields: GPE, ECON, POLS, HIST, ANTH, SOC, or courses from other departments with permission of the Program Coordinator. 9

3 credit hours from List A 3

12 credit hours of open electives 12

Refer to the information directly below this list for other important degree requirements students need to complete prior to graduation

**Hours** **30**

**Total Hours** **120**

<sup>1</sup> 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 from the Anthropology Department Head prior to registration.

<sup>2</sup> Students are advised to take SOC 1000 as an elective in Year 1 as it is the prerequisite for upper level Sociology courses.

<sup>3</sup> Students are advised to take POLS 2502 as an elective in Year 2 as it is the prerequisite for upper level Political Studies courses. Otherwise, students will require written consent from the Political Studies Department Head prior to registration.

## List A

### FACULTY OF ARTS

Course	Title	Hours
<b>Anthropology</b>		
ANTH 2530	Anthropology of Political Systems	3
ANTH 3320	Women in Cross-Cultural Perspective <sup>1</sup>	3
ANTH 3750	Anthropological Perspectives on Globalization and the World-System	3
<b>Economics</b>		
ECON 2630	An Introduction to the World's Economies	6
<b>History</b>		
HIST 1370	Modern World History: 1500-1800 (M)	3
HIST 1380	Modern World History: 1800-Present (M)	3
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 (M)	3
HIST 2732	Modern World History, 1945-1992: The Age of Three Worlds (M)	3
HIST 2734	Modern World History, 1980-Present: New World Order? (M)	3
HIST 3580	Topics in Recent World History (M) <sup>1</sup>	3
Acceptable for credit only when the topic is "Global Economic Crises in World History, 1929-Present"		
<b>Political Studies</b>		
POLS 2502	Introduction to World Affairs	3
POLS 3250	International Political Economy	3
POLS 3810	Introduction to Marxism	3
<b>Sociology and Criminology</b>		
SOC 2240	Sociology of Globalization	3
SOC 3350	Feminism and Sociological Theory	3
SOC 3380	Power, Politics and the Welfare State	3
SOC 3838	Ecology and Society	3
SOC 3810	Sociological Perspectives on Gender and Sexuality	3
SOC 3840	Community and Social Reconstruction	3
SOC 3890	Power and Inequality in Comparative Perspective	3

**University of Manitoba Libraries**  
**Statement for New Program**

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Department                      Arts  
  Global Political Economy  
Course #  
Course Name

The Libraries' collection can support this new programme, as it was described in the documents provided.

It is not expected that this proposed change will affect the Libraries' ability to continue to provide services such as research and teaching support, reference assistance, document delivery, and the technical infrastructure which allows the discovery and delivery of the Libraries' resources and services.

Cody Fullerton  
Data & Social Science Librarian

Afra Bolefski  
Head, Social Science Division

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Kristen Kruse  
Coordinator, Collections Management



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Lisa Hanson O'Hara  
Vice Provost (Libraries) & University Librarian

June 29, 2021  
Date

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## **Report of the Senate Committee on Curriculum and Course Changes on a proposal for Micro-Diploma in Workplace Health and Safety, Faculty of Arts**

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### **Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. At its meeting on October 13 and 15, 2021, the SCCC considered a proposal from the Labour Studies Program, Faculty of Arts, to establish a Micro-Diploma in Workplace Health and Safety.
3. The Faculty Council of the Faculty of Arts endorsed the proposal at its meeting on September 1, 2021. The Senate Planning and Priorities Committee also considered the proposal at its meeting on September 27, 2021.

### **Observations:**

1. The proposed Micro-Diploma in Workplace Health and Safety would require students to complete 9 credit hours of LABR courses, including: LABR 3050 Issues in Occupational Health and Safety and Workers' Compensation, LABR 3060 Workplace Health and Safety, and LABR 3070 Labour Relations and Occupational Health and Safety Law. The three courses are existing courses.
2. The objective of the program would be to provide students with a comprehensive analytical understanding of workplace health and safety, including the ability to think critically about current and emerging issues in the field, as well as relevant practical skills. Completion of the program would give students a university-level understanding of the subject and a credential that demonstrates that knowledge, which could be presented to current or future employers. It would also assist individuals with future certification by the Board of Canadian Registered Safety Professionals.
3. Completion of the Micro-Dip. in Workplace Health and Safety would prepare students for employment in health and safety risk management positions in the private sector and union health and safety staff positions.
4. The program would be open to students registered in any degree program at the University who were in good academic standing in their program, provided that the academic requirements and regulations for their degree programs allowed for the completion of the Micro-Diploma.
5. For students in a Labour Studies or some other degree that would allow the three required LABR courses to also contribute to the degree, the Micro-Diploma would be embedded within the degree. Where this was not possible, the Micro-Diploma could be completed as a stand-alone program, provided this was not inconsistent with the academic regulations of the students' degree program.
6. Projected enrolment in the Micro-Diploma is ten (10) students. The maximum capacity would be thirty-five (35) students.



7. The SCCCC observed that all three courses that would be required for the Micro-Diploma have prerequisite courses, which students outside of Labour Studies might not be expected to have. The committee discussed at some length, the limitations that this will present for students who might want to complete the micro-credential. While the prerequisites for all three courses include a provision for written consent of the Labour Studies Coordinator, the committee requested that the proposal and the description of the program, as this would be presented in the Academic Calendar, should clearly communicate to potential students that the Coordinator's consent would be predicated on relevant workplace experience or other relevant preparation.

**Recommendation:**

The Senate Committee on Curriculum and Course Changes recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Micro-Diploma in Workplace Health and Safety, in the Labour Studies Program, Faculty of Arts, effective for the 2022 Summer Term.**

Respectfully submitted,

Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

**Report of the Senate Planning and Priorities Committee on a proposal for a Micro-Diploma in Workplace Health and Safety, Faculty of Arts**

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**Preamble:**

1. The [terms of reference](#) of the Senate Planning and Priorities Committee (SPPC), which are found on the University Governance website, charge SPPC with making recommendations to Senate regarding proposed academic programs.
2. The definition of a Micro-Diploma, at the University of Manitoba, is found in the [Certificate and Diploma Framework](#) (Senate, February 3, 2021).
3. At its meeting on September 27, 2021, the SPPC considered a proposal from the Labour Studies Program, Faculty of Arts to establish a Micro-Diploma in Workplace Health and Safety. The proposal was endorsed by the Faculty Council of the Faculty of Arts at its meeting on September 1, 2021.

**Observations:**

1. The proposed Micro-Dip. in Workplace Health and Safety would require three courses totalling 9 credit hours, LABR 3050 – Issues in Occupational Health and Safety and Workers' Compensation, LABR 3060 – Workplace Health and Safety, and LABR 3070 – Labour Relations and Occupational Health and Safety Law.
2. The objective of the program would be to provide students with a comprehensive analytical understanding of the subject, including the ability to think critically about current and emerging issues in the field, as well as relevant practical skills.
3. Students who completed the three interrelated courses required for the Micro-Diploma would obtain a credential they could present to current or future employers, as evidence of their knowledge of workplace health and safety, at the university level. Courses required in the Micro-Diploma would also help students prepare for certification by the Board of Canadian Registered Safety Professionals.
4. Completion of the Micro-Dip. in Workplace Health and Safety would prepare students for employment in health and safety risk management positions in the private sector and union health and safety staff positions.
5. Projected enrolment in the program is 10 students. The maximum capacity would be 35 students.
6. The program would be available to students who were enrolled in a degree program. The Faculty anticipates there would be demand for the Micro-Diploma among students enrolled in Labour Studies degrees, as well as students in other degree programs, including in the Asper School and the Faculties of Engineering and Science, provided it was possible given the academic regulations and requirements of their program.
7. No new resources would be required to offer the program. The three courses required for the Micro-Diploma are existing courses offered by the Labour Studies Program and costs related to staffing are covered by the Faculty of Arts. At the meeting, the Faculty representative said there is sufficient capacity in the courses to accommodate a modest increase in enrolment, which would be managed within the Faculty according to normal scheduling processes. The courses are taught regularly, including in the Summer Term.

Tuition revenue would be used to cover costs associated with advertising and administering the program.

9. The University of Manitoba Libraries indicated its collections can support the proposed Micro-Diploma program.

**Recommendation:**

The Senate Planning and Priorities Committee recommends:

**THAT Senate approve and recommend to the Board of Governors that it approve a proposal to establish a Micro-Diploma in Workplace Health and Safety, in the Faculty of Arts. The Senate Committee on Planning and Priorities recommends that the Provost and Vice-President (Academic) not implement the program until satisfied that there would be sufficient space and sufficient funding to support the ongoing operation of the program.**

Respectfully submitted,

Professor David Watt, Chair  
Senate Planning and Priorities Committee



## Proposal for New Micro-Diploma

Please complete the form below and append supporting documents, as appropriate. Electronic copies of the completed proposals are to be submitted to the Office of the University Secretary and the Deputy Provost (Academic Planning and Programs) following endorsement of the proposal by the appropriate Faculty/ College/School/Division Council.

It is advised that units initially discuss the proposed program with the Deputy Provost (Academic Planning and Programs) for undergraduate-level Micro-diplomas or with the Dean of the Faculty of Graduate Studies for graduate-level Micro-Diplomas prior to completion and submission of the proposal form. Please refer to the [UM Certificate and Diploma Framework](#) detailing the requirements for micro-diploma programming.

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### Section A: Proposing Unit

**Faculty/School/College/Division:** Faculty of Arts

**Department** (where applicable): Labour Studies

**Contact, Name and Title:** Greg Smith, Associate Dean, Curriculum

**Contact Email:** [Greg.Smith@umanitoba.ca](mailto:Greg.Smith@umanitoba.ca)

### Section B: Program Overview

- Program Type:** Micro-diploma  Graduate Micro-diploma
- Program Name:** Micro Diploma in Workplace Health and Safety
- Credential Awarded:** Micro Diploma in Workplace Health and Safety
- Program Length (contact hours):** 9 credit hours
- Proposed Start Date:** May 2022

### Section C: Program Description and Delivery

- Description of Program** (Provide a general overview of the program, its objectives, and the intended purpose of the program.)

The Micro Diploma in Workplace Health and Safety is comprised of a suite of three interrelated, specialized courses (Labour Studies 3050 Issues in Occupational Health and Safety and Workers' Compensation; Labour Studies 3060 Workplace Health and Safety; and, Labour Studies 3070 Labour Relations and Occupational Health and Safety Law).

The objective of the Micro Diploma is to provide students with a comprehensive analytical understanding of the subject, including the ability to think critically about current and emerging issues in the field, as well as relevant practical skills. It will allow students who complete these three courses, either as part of their degree programs, or as a stand-alone set, to make their knowledge of health and safety visible via a credential.

This micro diploma will provide all learners with a means to acquire a university-level understanding of the subject and a credential that demonstrates their knowledge.

## **7. Intended Outcomes**

(Outline the expected outcomes of the program and how it will benefit students.)

Upon completion of the MDWHS, students will be able to:

1. Recognize workplace hazards and occupational diseases and their causes, and understand principles and practices to address and prevent them, including risk management and due diligence
2. Analyze legal, economic and political issues surrounding health and safety in the Canadian workplace
3. Understand the Workers' Compensation and Workplace Health and Safety systems and critically assess their functioning and value
4. Critically assess the role of workers, employers, governments and unions with respect to health and safety in non-unionized and unionized workplaces
5. Demonstrate the application of legislation, regulations and workplace policy to various areas of workplace health and safety

The creation of the micro diploma will assist with future certification by the Board of Canadian Registered Safety Professionals. Student will be able to present the credential to current or future employers to demonstrate a specialized knowledge of workplace health and safety issues.

## **8. Program Structure**

### **a) Coursework**

(Provide a list of courses, including elective courses, required to complete the program. Outline how students are to progress through the program. Indicate whether proposed coursework is currently offered or new, noting any pre-requisite details where applicable. Append course details, including a list of all course descriptions for existing and proposed courses, and course introduction forms for proposed new courses.)

The MDWHS consists of 9 credits of coursework:

- LABR 3050
- LABR 3060
- LABR 3070

All courses are currently in the Academic Calendar.

Students who have satisfied the stated prerequisite courses may enroll in the normal manner.

Students with potentially sufficient preparation through relevant workplace experience or other relevant preparation for admission to the courses, but lacking the formal prerequisite courses, may contact the Labour Studies Coordinator to seek written permission to enroll.

Students may complete the program by completing the courses within four years of declaring intent to begin the Micro Diploma.

### **b) Experiential Learning or Work-Integrated Learning Opportunities**

(Where applicable, briefly describe any experiential learning or work-integrated-learning opportunities within the program.)

N/A

## **9. Academic Regulations**

(Detail any new academic regulations for the program that are not addressed in existing Faculty/School/College/Division regulations. For graduate-level micro-diplomas, append revised supplemental regulations.)

Does the program allow part-time study:    Yes             No

## **10. Entrance Requirements**

(Detail program specific entrance requirements for the program that are in addition to the minimum university entrance requirements. Please refer to the [UM Certificate and Diploma Framework](#) for minimum requirements.)

In order to enter the MDWHS, current students are required to be in good academic standing within any degree program at the University of Manitoba.

### **Current students**

The entrance criteria are: registration and good academic standing in any current degree program at the University of Manitoba.

## 11. Recognition for Credit<sup>1</sup>

(Outline how completion of this program may be recognized and used to satisfy requirements in other programs. Describe whether the program is stackable or whether it can be laddered into other programs<sup>2</sup>. Append letters of support, as appropriate. See *Request for Support* form at <https://umanitoba.ca/governance/forms>.)

Completion of the MDWHS for current students will be noted on the transcript upon completion of the micro diploma requirements.

The courses may be used also as part of the requirements for a Minor or Major in Labour Studies.

Faculty of Arts students may use courses completed in the Micro Diploma toward the completion of their Bachelor of Arts Degree and alternatively, courses that are used for degree completion can also be used to satisfy the Micro Diploma.

Students from other Faculties or Schools interested in the Workplace Safety and Health Micro Diploma should confirm with their home unit how these courses may be used toward their degree program.

## 12. Mode of Delivery

This program is available: In-person  On-line  Combination:

## Section D: Program Development and Demand

## 13. Alignment with Strategic Direction and Priorities

(Comment on how the program fits within unit level and institutional strategic priorities and plans.)

This credential offers a concentration of study in an area that is important to every workplace. The credential can provide a pathway for returning learners to upskill, even if they are not intending to pursue a degree. It promotes lifelong learning and helps prepare Manitobans for new workplace challenges.

The creation of this micro diploma flows from the University's mission of contributing to the "social and economic well-being of the people of Manitoba, Canada and the world." It contributes to promoting the University of Manitoba as an opportunity for community members to develop their knowledge and skills and to pursue their interests. It also increases engagement between the University and communities connected to the institution's academic mission.

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<sup>1</sup> Credit recognition of a micro-credential in another program is subject to Senate approved program regulations. Units are encouraged to review degree requirements and regulations and submit any necessary revisions concurrent with the program proposal.

<sup>2</sup> Stackable credentials are credentials that are modular in nature, and when combined with others, result in the awarding of a larger credential; laddering of credentials is when one credential articulates into another resulting in students receiving established credit within the program, shortening the path to program completion.

#### 14. Student Demand for Program

##### a. Outline expected student demand and interest in the program.

It is anticipated this additional credential recognition will be of interest to current students in a Labour Studies degree seeking acknowledgement of this concentrated group of interrelated courses.

Students from other Faculties or Schools interested in the Workplace Safety and Health Micro Diploma should be in good academic standing and should confirm with their home unit how these courses may be used toward their degree program.

##### b. What is the expected enrolment in the program?

10

##### c. What is the maximum capacity, if applicable? (Defined as first-year enrolment capacity.)

35

#### 15. Community and Industry Need

(Describe the current community and/or industry need for the program.)

Manitoba has a number of industry-specific health and safety programs certified by SafeWork Manitoba (see: <https://www.safemanitoba.com/Education/Pages/Events.aspx>). They will also be well-prepared for government employment in the field (e.g. SafeWork Manitoba and other parts of the Manitoba Workers' Compensation Board), for a range of health and safety and risk management jobs in the private sector, and for union health and safety staff positions.

#### 16. Internal Consultation

(Outline the results of internal consultations, including (i) relevant departments/faculties/colleges/school in respect to use of courses and/or recognition of credit; (ii) the libraries to determine resource needs; (iii) the Office of the Registrar and Enrolment Services to determine system needs; and (iv) other units in relation to resource needs, as appropriate. Append letters of support, as appropriate. See *Request for Support* form at <https://umanitoba.ca/governance/forms>)

The unit and the Faculty of Arts have consulted with the Offices of the Provost, Registrar, Enrollment Services, and the UM Libraries.

##### **How have faculty, staff and students within the unit been consulted as part of the process?**

The unit has held internal discussions, and worked in conjunction with the Faculty of Arts. The proposed program will be reviewed and approved by CPAC and the Arts Faculty Council prior to being reviewed by 4Cs in the Fall of 2021.



## 17. External Consultation

(Outline any consultations with community and industry partners, and other external stakeholders in the development of this program. Append letters of support, as appropriate.)

N/A

## Section E: Resource Requirements

### 18. Projected costs (For each of the sections below, outline the resource requirements for the program.)

#### a. Staffing Requirements

(Comment on the staffing requirements to deliver the program, including instructional, administrative, or advising requirements. Indicate whether any new staffing resources are required to deliver the program.)

The courses are taught regularly by the unit. Staffing is covered by the Faculty of Arts.

#### b. Infrastructure/Equipment/IT Requirements

(Comment on how the proposed program will impact on the use of current infrastructure, equipment, and IT resources, including student systems.)

Normal student use.

#### c. Library Resources

(If the program requires new courses or courses that are not offered on a regular basis, comment on the adequacy of existing library resources. Append a letter of support from the Libraries.

Existing library resources will be sufficient.

#### d. Other Resources

(Outline any other resources required for on-going delivery of the program. This could include, but is not limited to, costs associated with supplies and administrative costs, travel costs, and/or marketing costs.)

The Faculty of Arts is considering the possible administrative costs in tracking students in the MDWHS.

Resource needs for creating new program categories in Aurora/Banner in the RO may be required.

## 19. Program Funding

(Outline how the program will be funded and indicate whether new funds are required for the program. If yes, provide details.)

Tuition revenue to the Faculty by course enrollments will partially support the marginal costs of advertising and administering the MDWHS.

No new resources are required for this program.

## Section G: Appendices

As appropriate, please append the following:

- i) List of courses with course calendar descriptions, highlighting new courses. ii) Course introduction forms for proposed new courses.
- iii) Revised supplemental regulations and BFARS, as appropriate (*graduate microdiplomas only*)
- iv) Internal letters of support (See *Request for Support* form at <https://umanitoba.ca/governance/forms>), including letter of support from Libraries.
- v) External letters of support.

### G. i) List of Required Courses

#### **LABR 3050 Issues in Occupational Health and Safety and Workers' Compensation 3 cr**

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.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

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 3 cr**

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.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

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 3 cr**

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.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

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.

**University of Manitoba Libraries**  
**Statement for New Program**

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**Faculty** Faculty of Arts  
**Department** Labour Studies  
**Program name** Micro Diploma in Workplace Health and Safety

The Libraries' collection can support this new program, as it was described in the documents provided.

It is not expected that this proposed change will affect the Libraries' ability to continue to provide services such as research and teaching support, reference assistance, document delivery, and the technical infrastructure which allows the discovery and delivery of the Libraries' resources and services.

Asako Yoshida  
Liaison Librarian

Afra Bolefski  
Head, Social Sciences Division

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Kristen Kruse  
Coordinator, Collections Management

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Lisa Hanson O'Hara  
Vice Provost (Libraries) & University Librarian

June 17, 2021

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Date

## Labour Studies

- The Labour Studies program proposes the introduction of a Micro Diploma (9 credit hours) in Workplace Health and Safety.

Added Material

~~Deleted Material~~

## Labour Studies

**Program Coordinator:** David Camfield

**Program Office:** 218 Isbister

**Telephone:** 204 474 8356

**E-mail:** [labour\\_studies@umanitoba.ca](mailto:labour_studies@umanitoba.ca)

**Website:** [umanitoba.ca/labour\\_studies](http://umanitoba.ca/labour_studies)

## 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: 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.

A minimum "C" average 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. 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.

## **Micro Diploma in Workplace Health and Safety**

The Labour Studies program offers a Micro Diploma in Workplace Health and Safety. Students who successfully complete: LABR 3050 Issues in Occupational Health and Safety and Worker’s Compensation; and LABR 3060 Workplace Health and Safety; and LABR 3070 Labour Relations and Occupational Health and Safety Law will qualify for this credential.

Current Faculty of Arts students should contact the Faculty of Arts Student Services office for information on how to enter the Micro Diploma in Workplace Health and Safety. Faculty of Arts students may use courses completed in the Micro Diploma toward the completion of their Bachelor of Arts Degree and alternatively, courses that are used for degree completion can also be used to satisfy the Micro Diploma. This program is also open to students in good standing from other University of Manitoba Faculties and Schools whose academic requirements and regulations for their programs allow for entry to this program. Students from other Faculties or Schools interested in the Workplace Safety and Health Micro Diploma should confirm with their home unit how these courses may be used toward their degree program.

Students with potentially sufficient preparation through workplace experience or other relevant preparation for admission to the courses, but lacking the formal prerequisite courses, may contact the Labour Studies Coordinator to seek written permission to register in LABR 3050, LABR 3060 and LABR 3070.

## **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.



To: Dr. Kelley Main, Acting Dean, FGS

From: Dr. Michelle Honeyford, Acting Associate Dean, Graduate Programs & Research

Date: June 25, 2021

Re: Proposal for changes to CTL supplemental regulations and Modification of **EDUB 7580  
*Theory and Research in a Second Language Acquisition*** (3 credit hours)

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There are two changes being proposed to the M.Ed Supplemental Regulations in CTL and one proposed course title modification:

**1. Proposal to change EDUB 7212 Critical Applied Linguistics in a Global Context (3 credit hours) from an elective to a required core course in Second Language Education (M.Ed)**

The proposed change was approved by the Curriculum, Teaching, and Learning (CTL) Department at its meeting on May 3, by the Graduate Programs Committee at its meeting on May 10, 2021, and by Faculty Council on June 7, 2021. The change is to make EDUB 7212 *Critical Applied Linguistics in a Global Context* (3 credit hours) a required core course in the Second Language Education (SLE) specialization. Currently, EDUB 7212 is an approved elective course in SLE that many students already elect to take as part of their program. If approved, this change would add EDUB 7212 as a fourth, mandatory course to the thesis- and course-based routes in SLE. The addition reflects that globally, the study of language centers on an interdisciplinary approach that includes applied linguistics.

**Background and Rationale:**

Second Language Education encompasses teaching and learning additional languages and research into teaching and learning additional languages, but it also includes a strong focus on applied linguistics. Outside of Faculties of Education, additional language teachers frequently identify as applied linguists. Our goal in making EDUB 7212 (a course in applied linguistics) a core course in SLE is to acknowledge that language teaching globally centers on an interdisciplinary approach to the study of language as represented at dominant research-oriented professional associations in Canada (Canadian Association of Applied Linguistics), the US (American Association for Applied Linguistics), and elsewhere (Association Internationale de Linguistique Appliquée).

Unlike theoretical linguistics, applied linguistics operates at the interface between theory and practice—an important distinction for SLE where language teaching and learning is a strongly applied affair. In the present era, applied linguistics includes a sophisticated and integrated



range of perspectives including bilingualism and multilingualism, [critical] discourse analysis, language planning and policy, language revitalization/reclamation and maintenance, examination of oral versus written language practices, ecolinguistics, pragmatics, linguistic landscapes, language awareness, subaltern studies, and translation. Thus, learning the topic requires a principled and structured approach. As one illustration of the complexity of SLE and applied linguistics, students at University of British Columbia must choose 5 of 7 graduate level courses in SLE and students at University of Calgary must choose 10 of 12 graduate level courses in SLE. With this change, students in our SLE program will take 4 required graduate level courses in SLE with the choice of two additional SLE graduate level courses in the thesis-route, and 3 additional graduate SLE courses in the course-based route.

**Proposed Change:**

**THAT** effective Fall 2021, the course EDUB 7212 *Critical Applied Linguistics in a Global Context* (3 credit hours) be changed from an elective course in the concentration to a required core course in the SLE Master's program.

**2. Proposal to add the statement “Applicants may be required to take additional courses within their programs to enhance relevant professional and/or academic experience” to Section 4.2 Admission of the CTL supplemental regulations.**

The proposed change was approved by Faculty of Education Faculty Council on November 23, 2020. The proposed change was written to go along with the CTL supp reg changes that were submitted in December 2020 and approved at Senate June 16, 2021. Senate approved the motion to change the regulations in the M.Ed program in SLE to allow EDUB 5580 to be added to a program only as an auxiliary course. The statement “Applicants may be required to take additional courses within their programs to enhance relevant professional and/or academic experience” was intended to add transparency for students so that there is a clear understanding that in the process of creating their programs, additional coursework may be necessary. However, to be clear that this is the case for all specializations, this has been added in the Admissions section (4.2) for all CTL M.Ed applicants.

This change was missed in the initial proposal in December 2020, and therefore is being submitted now.

**3. In addition, the Faculty of Education is submitting a Course Modification to change the title and course description of the course EDUB 7580 Theory and Research in a Second Language Acquisition.**

The proposal to change the title and course description of EDUB 7580 Theory and Research in a Second Language Acquisition was approved by Faculty Council by electronic vote on June 24, 2021. The proposed new title for the course is *EDUB 7580 Social, Cultural, and Political Theories in Second Language Acquisition*.

The new title and course description more accurately reflect the current course content, more precisely targeting those theories (i.e., social, cultural, and political) of greatest interest and relevance to graduate students in the SLE program. Please see the attached Course Modification form. Changes to the course title have been made in the attached supplemental regulations.

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>A student may be permitted to remove deficiencies in grades by writing a supplemental examination or repeating courses only one (1) time for each course to a maximum of nine (9) credit hours of coursework.</p> <p>If a course is repeated or a supplemental examination is written, the highest grade obtained in that course will be used in the determination of the degree GPA.</p> <p>The degree GPA is cumulative in a Pre-Master's program if more than one (1) year is required to complete the course requirements.</p> <p>A summary of all action taken administratively is to be reported to the Faculty of Graduate Studies Executive Committee.</p>	
<p><b>SECTION 4: General Regulations: Master's</b></p> <p><b>4.1 General</b></p> <p>Although general regulations apply to all students, individual departments/units may have additional regulations that supplement these general regulations. All such supplementary regulations must be approved (as specified by the By-Laws of the Faculty of Graduate Studies), be published and available to students (please refer to the following <a href="#">link</a>), and be kept on record in the Faculty of Graduate Studies. All students should consult department/unit supplementary regulations for specific details regarding admission, program requirements, progression, and completion. Individual departments/units may offer Master's programs by one or more of the following:</p> <ul style="list-style-type: none"> <li>• Thesis/practicum-based;</li> <li>• Course-based;</li> <li>• Comprehensive Exam;</li> <li>• Project;</li> <li>• Accredited Professional;</li> <li>• Major research paper.</li> </ul>	
<p><b>4.2 Admission</b></p> <p>Students who are eligible to be considered for direct admission to a program of study leading to the Master's degree include:</p> <ul style="list-style-type: none"> <li>• Graduates of four (4)-year undergraduate degree programs (or equivalent as deemed by the Faculty of Graduate Studies) from: <ul style="list-style-type: none"> <li>○ Canadian institutions empowered by law to grant degrees; or</li> <li>○ Colleges and universities outside Canada which are officially recognized by the Faculty of Graduate Studies.</li> </ul> </li> <li>• Graduates from first-cycle Bologna compliant degrees.</li> <li>• Students who have completed a Pre-Master's program from: <ul style="list-style-type: none"> <li>○ The University of Manitoba (see <a href="#">General Regulations - Pre-Master's</a>); or</li> <li>○ Canadian institutions empowered by law to grant degrees; or</li> <li>○ Colleges and universities outside Canada which are officially recognized by The Faculty of Graduate Studies.</li> </ul> </li> </ul> <p>All students applying for a Master's degree program must have attained a minimum GPA of 3.0 in the last two (2) full years (60 credit hours) of study. This includes those applying for direct admission and those entering from a Pre-Master's program. Students who meet the minimum requirements for admission to the Faculty of Graduate Studies are not guaranteed admission.</p>	<p><b>Applicants must possess:</b></p> <ul style="list-style-type: none"> <li>• <u>For specializations:</u> <i>Language and Literacy and Studies in Curriculum Teaching and Learning</i>, a four-year Bachelor of Education degree, or a two-year After Degree Bachelor of Education, or a three-year undergraduate degree which includes teacher training, plus a Post-Baccalaureate Diploma in Education (PBDE) with a minimum of 18 credit hours at the 5000 level. <i>For Second Language Education specialization</i>, an acceptable four-year equivalent undergraduate degree from an academic institution recognized by the Faculty of Graduate Studies, or a three-year undergraduate degree, plus a Post-Baccalaureate Diploma in Education (PBDE) which includes at least 18 credit hours at the 5000 level.</li> <li>• A grade point average of 3.0 or better in the last 60 credit hours of university coursework;</li> <li>• Normally two years of relevant work experience.</li> <li>• Appropriate academic and/or professional background for the program area and concentration.</li> <li>• <a href="#">Applicants may be required to take additional courses within their programs to enhance</a></li> </ul>

**Note:** This is the minimum requirement of the Faculty of Graduate Studies and departments/units may have higher standards and additional criteria.

relevant professional and/or academic experience.

Individuals who graduate from the Certificate in Adult and Continuing Education (CACE), from the University of Manitoba, must complete the following courses:

- EDUA 1560 Adult Learning and Development (3 credit hours)
- EDUA 1570 Foundations of Adult Education (3 credit hours)
- EDUA 1580 Program Planning in Adult Education (3 credit hours)
- EDUA 1590 Facilitating Adult Education (3 credit hours); and
- an additional 100 credit hours of elective credit through courses, seminars, and workshops.

The Faculty of Graduate Studies recognizes a complete CACE program as 15 credit hours towards the admission requirements for the M.Ed.; that is, giving 12 credit hours for the four core courses completed with a grade of 'B' or better and 3 credit hours (non-assessable) for the 100 hours of elective study.

Individuals with a three-year undergraduate degree and the four courses listed above must complete an additional 12 credit hours of senior level courses (i.e.: 5000 level - Post-Baccalaureate Diploma in Education (PBDE) courses, 1000 or 2000 level B.Ed. courses, or courses at the 3000 level or above in other faculties) to have the 24 credit hours that are the minimal requirements for satisfying the "honours degree or equivalent" admission requirement. Those with the completed CACE would require an additional 9 credit hours of senior level courses.

Admission committees are comprised of faculty members representing program specializations. The Department Head in consultation with admission committees reviews applications and makes recommendations to the Faculty of Graduate Studies for admission.

**4.3 Program Requirements**

In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.

**4.3.1 Thesis/Practicum Route**

A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary

**Note: The number of credit hours required in the M.Ed. Program (Thesis Route) differ from that required by Faculty of Graduate Studies.**

**The Coursework and Thesis Route (Thesis-Based)**

of 7000 level and 3 credit hours of 5000 level concentration coursework in consultation with their advisor. In addition, students may select up to 6 more credit hours of coursework from any Faculty of Education 5000 or 7000 level courses.

Language and Literacy

*Core Courses:*

From the list below, students select 6 credit hours of core courses in consultation with their advisor.

- EDUB 7530 Curriculum Development and Implementation in Language and Literacy (3 credit hours)
- EDUB 7070 Classical Research in Reading (3 credit hours)
- EDUB 7100 Language and Literacy Curriculum in Inquiry in the Early Years (3 credit hours)
- EDUB 7180 Research in Written Composition (3 Credit Hours)
- Or any other EDUB 7000-level courses in language and literacy in consultation with their advisor and department head.

*Concentration:*

Students select 6 credit hours of coursework in consultation with their advisor. These courses are normally selected from EDUB 7060, EDUB 7070, EDUB 7090, EDUB 7100, EDUB 7110, EDUB 7150, EDUB 7180, EDUB 7190, EDUB 7290, EDUB 7420, EDUB 7550, EDUB 7560, or other courses approved by the Program Advisor and Department Head.

In addition, students may select up to 6 more credit hours of coursework from any Faculty of Education 5000 or 7000 level courses.

Second Language Education

*Core Courses (12 credit hours):*

- EDUB 7210 Seminar in ESL Theory and Practice (3 credit hours)
- [EDUB 7212 Critical Applied Linguistics in a Global Context \(3 credit hours\)](#)
- EDUB 7220 Research Issues and Application in TESL (3 credit hours)
- [EDUB 7580 Theory and Research Social, Cultural, and Political Theories in Second Language Acquisition \(3 credit hours\)](#)

*Concentration:*

~~In addition, students select 3 credit hours of coursework in consultation with their advisor. These courses are normally selected from EDUA 7270, EDUA 7280, EDUA 7420, EDUB 7212,~~

	<p><del>EDUB 7270, EDUB 7420, EDUB 7550, or other courses approved by the Program Advisor and Department Head.</del></p> <p>In addition, students may select up to 6 more credit hours of coursework from any Faculty of Education 5000 or 7000 level courses (except EDUB 5580*)</p> <p>*Advisors may decide that EDUB 5580 is a necessary component for the programs of students who have minimal second/foreign language teaching experience or for other reasons. This course will be added to a student's program as an auxiliary course above and beyond the minimum 18 credit hours.</p>
<p><b>4.3.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless a department/unit's supplementary regulations indicate otherwise. A comprehensive examination is required for some course-based programs.</p>	<p><b>Note: The number of credit hours required in the M.Ed. Program (Course-Based/Comprehensive Route) differs from that required by Faculty of Graduate Studies.</b></p> <p><b>Coursework and Comprehensive Examination Route (Course-Based)</b></p> <p>Typically students complete a set of <i>core</i> courses, a <i>research</i> course, and a set of <i>concentration</i> courses in this program route. The culminating activity is a comprehensive exam which can take a variety of forms.</p> <p>In the event that one or more core courses are not available by way of course cancellation, enrolment capacity, or timetabling before a student is expected to finish their program, the student may complete one or more comparable 3 credit hour courses with the permission of their advisor and the Department Head. Permission must be obtained before beginning the course(s). The Department will notify the Faculty of Graduate Studies when core course substitutions are made in a student's program.</p> <p><i>Coursework</i></p> <p>The course-based route to the M.Ed. in the Department of Curriculum, Teaching and Learning involves a minimum of 30 credit hours of approved courses. At least 18 credit hours must be at the 7000 level; the remaining 12 credits may be at the 5000 level or above in the Faculty of Education and/or at the 3000 level or above in other Faculties.</p> <p><i>Required Research Course</i></p> <p>EDUA 5800 <i>Introduction to Educational Research</i> (3 credit hours) or its equivalent, is a requirement of all M.Ed. programs in the Department.</p> <p>In addition, all students must complete 9 credit hours of core courses and 18 credit hours of concentration.</p>

- EDUB 7100 *Language and Literacy Curriculum in Inquiry in the Early Years* (3 credit hours)
- EDUB 7180 *Research in Written Composition* (3 Credit Hours)
- Or any other EDUB 7000-level courses in language and literacy in consultation with their advisor and department head.

*Concentration:* Students select 18 credit hours of coursework in consultation with their advisor. These courses are normally selected from EDUB 7060, EDUB 7070, EDUB 7090, EDUB 7100, EDUB 7110, EDUB 7150, EDUB 7180, EDUB 7190, EDUB 7290, EDUB 7330, EDUB 7420, EDUB 7540, EDUB 7550, EDUB 7560, or other courses approved by the Program Advisor and Department Head.

Second Language Education

*Core Courses (12 credit hours):*

- EDUB 7210 Seminar in ESL Theory and Practice (3 credit hours)
- [EDUB 7212 Critical Applied Linguistics in a Global Context](#) (3 credit hours)
- EDUB 7220 Research Issues and Application in TESL (3 credit hours)
- EDUB 7580 ~~Theory and Research~~ Theory and Research ~~Social, Cultural and Political Theories~~ Social, Cultural and Political Theories in Second Language Acquisition (3 credit hours)

*Concentration:*

In consultation with their advisors, students select ~~18~~ 15 credit hours of coursework, with a minimum of 9 credit hours at the 7000 level, from EDUA 7270, EDUA 7280, EDUA 7420, EDUB 5510, EDUB 5520, EDUB 5530, EDUB 5540, EDUB 7070, EDUB 7180, ~~EDUB 7212,~~ EDUB 7330, EDUB 7420, EDUB 7540, EDUB 7550, EDUB 7560, or other courses approved by the Program Advisor and Department Head (except EDUB 5580\*).

\*Advisors may decide that EDUB 5580 is a necessary component for the programs of students who have minimal second/foreign language teaching experience or for other reasons. This course will be added to a student's program as an auxiliary course above and beyond the minimum 30 credit hours.

**[Please note that not all of the courses listed in the concentration are regularly offered by the Department. Check the "Future Graduate Course Offerings" for Current Students posted**

## Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes

### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Environment & Geography.

### Observations

1. The **Dept. of Environment and Geography** proposes (3) course introductions: GEOG 7610, GEOG 7620, GEOG 7630 and M.A., M.Env., M.Sc., and Ph.D. supplementary regulation changes.

GEOG 7610 Graduate Seminar in E&G (Masters) will be required in the M.Sc., M.A. and M.Env. programs. GEOG 7620 Graduate Seminar in E&G (Ph.D. 1) and GEOG 7630 Graduate Seminar in E&G (Ph.D. 2) will be required for in Ph.D. program. The establishment of the new courses addresses two major recommendations raised during the department's 2018 external graduate program review: 1) a reduction in required credit hours; and 2) a core professional development course.

The graduate seminar courses will replace the original seminar requirement for the programs and will account for 3 of the 12 credit hours required for each of the department's graduate programs. Each seminar will also offer Faculty-driven professional development seminars, provide an avenue for graduate students to present and discuss their research with each other, and help build a better sense of community in the department.

The Dept. of Environment & Geography also proposes changes to the details for coursework requirements for students admitted to the Ph.D. program without a Master's degree. These changes can be found in sections 4.4.1, 4.7.4, 4.7.5, 5.4, 5.6.1, and 5.6.2 of the supplementary regulations. These changes have been made based on the above program review suggestions as well as the input from the FGS Program and Guidelines Committee. Specifically, for Master's students, they are still required to take an additional 9 credit hours (6 of them at the 7000 level) beyond the graduate seminar course. This falls within the minimum standard for FGS and will allow students to gain sufficient core content to be successful in their degree program and beyond.

### Course Introductions

#### **GEOG 7610 Graduate Seminar in E&G (Masters)**

**+3**

The course allows students to develop research and communication skills and provides a greater understanding of research within geography, environmental science and environmental studies. It is organized around presentations given by the students on their area of expertise. Course graded pass/fail.

#### **GEOG 7620 Graduate Seminar in E&G (PhD 1)**

**+1.5**

The course allows students to develop research and communication skills and provides a greater understanding of research within geography, environmental science and environmental studies. It is organized around presentations given by the students on their area of expertise. Course graded pass/fail.



**GEOG 7630 Graduate Seminar in E&G (PhD 2)**

**+1.5**

The course allows students to develop research and communication skills and provides a greater understanding of research within geography, environmental science and environmental studies. It is organized around presentations given by the students on their area of expertise. Course graded pass/fail.

**NET CREDIT HOUR CHANGE**

**+6**

**Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

**Dept. of Environment & Geography**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:

The Senate Executive Committee Endorses the Report to Senate.

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	
<p><b>4.4.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p><u>The Masters programs require a thesis plus a minimum of 12 credit hours which includes:</u></p> <ul style="list-style-type: none"> <li>• <u>GEOG 7610 E&amp;G Graduate Seminar-Masters (3 credit hours).</u></li> <li>• <u>6 credit hours at the 7000-level</u></li> <li>• <u>36 credit hours at the 3000-level or above.</u></li> <li>• <u>3 credit hours at the 7000 level</u></li> </ul> <p><u>Depending on the student's background and needs, the Advisory Committee may assign additional courses at the 3000-level or above.</u></p>
<p><b>4.4.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless a department/unit's supplementary regulations indicate otherwise. A comprehensive examination is required for some course-based programs.</p>	
<p><b>4.4.3 Accredited Professional Route</b></p> <p>The credit hours and course requirements shall reflect the requirements of the department/unit's external accrediting body. Students should check department/unit supplementary regulations regarding this requirement.</p>	
<p><b>4.4.4 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Master's degree. Students should check department/unit supplementary regulations regarding this requirement.</p>	Not required.
<p><b>4.4.5 Advanced Credit</b></p> <p>Advance credit for courses completed prior to admission to a Master's program will be considered on a case-by-case basis. The student's department/unit must make a request to the Faculty of Graduate Studies by completing the "Recommendation for Advance Credit-Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 4.7.2 Lapse of Credit of Courses).</li> </ul>	

<p><b>4.7 Courses and Performance</b></p> <p><b>4.7.1 Course or Program Changes</b></p> <p>Students are not permitted to change their program of study, including withdrawal from individual courses, without the approval of their advisor/co-advisor (and/or advisory committee) and department/unit Head. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.</p>	
<p><b>4.7.2 Lapse of Credit of Courses</b></p> <p>Courses completed more than seven (7) years prior to the date of awarding of a degree may not normally be used for credit toward that degree. A department/unit may request an exception to this limit on behalf of the student. Such requests, which will be evaluated on a case-by-case basis, must be accompanied by supporting information including a detailed summary of the content of the course as taken initially and as offered most recently, and a detailed rationale explaining how the student has maintained knowledge of the course content.</p> <p>Courses completed more than ten (10) years prior to the date of awarding of a degree cannot be used for credit toward that degree.</p> <p>In the event that coursework is no longer considered current, students must take additional course-work (as recommended by the department/unit Head, or designate, and as approved by the Dean of the Faculty of Graduate Studies) to meet the minimum credit hour requirements for their program.</p>	
<p><b>4.7.3 Academic Performance</b></p> <p>Student progress shall be reported <b>at least</b> annually (but no more than once every four (4) months) to the Faculty of Graduate Studies on the "Progress Report" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the "Progress Report" form. Students who receive two (2) consecutive "in need of improvement" or one (1) "unsatisfactory" rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".</p>	
<p><b>4.7.4 Performance in Coursework</b></p> <p>A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.</p>	<p><u><a href="#">Masters students must obtain a Pass in the graduate seminar course GEOG 7610 prior to their thesis defence.</a></u></p>

<p><b>4.7.5 Performance not related to Coursework</b></p> <p>In some departments/units, students are required to demonstrate satisfactory academic performance in areas not related to performance in courses, such as attendance at or participation in course lectures, seminars and in laboratories and progress in research, thesis or practicum. The specific nature of satisfactory academic performance is outlined in individual department/unit supplementary regulations and students should consult these supplementary regulations for specific requirements. Unsatisfactory performance must be reported to the Faculty of Graduate Studies on the "Progress Report" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the department/unit Head to the Dean of the Faculty of Graduate Studies.</p>	<p><b>Seminars:</b></p> <p><del>Students must present their thesis research at a seminar offered and advertised at the departmental level. Master's level students will give one departmental seminar prior to their thesis defence. Graduate student presentations must relate to students' research interests.</del></p>
<p><b>4.8 Academic Requirements for Graduation</b></p> <p>All students must:</p> <ul style="list-style-type: none"> <li>• maintain a minimum degree grade point average (DGPA) of 3.0 with no grade below C+;</li> <li>• complete <a href="#">GRAD 7500</a></li> <li>• complete <a href="#">GRAD 7300</a></li> <li>• meet the minimum and not exceed the maximum course requirements; and</li> <li>• meet the minimum and not exceed the maximum time requirements.</li> </ul> <p>Individual department/units may have additional specific requirements for graduation and students should consult department/unit supplementary regulations for these specific requirements.</p>	
<p><b>4.8.1 Thesis/Practicum Route</b></p> <p><b>4.8.1.1 Thesis vs. Practicum</b></p> <p>Students must demonstrate their mastery of the field and that they are fully conversant with the relevant literature through their thesis/practicum. The thesis or practicum will normally be written in English unless the student is studying in a program at the Université de Saint-Boniface, or departmental/unit supplementary regulations allow a different language to be used.</p> <p>A practicum differs from the thesis in its emphasis on the application of theory, it is however similar in scope, span, and rigour. The practicum takes the form of an exercise in the practical application of knowledge and skill. It usually involves the careful definition of a problem, the application of appropriate knowledge and skills to the problem, and a report of the results in a manner suitable for evaluation by an examining committee. Individual department/units have specific requirements for graduation and students should consult department/unit supplementary regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the practicum.</p> <p>The thesis is developed under the mentorship of the advisor/co-advisor. Individual department/units may have specific guidelines regarding the thesis proposal and its acceptance by the student's advisory committee and department/unit Head; students</p>	<p><b>Thesis Proposal and Proposal Defence</b></p> <p>Students are required to submit a thesis proposal to their Advisor. The proposal should incorporate a statement of research purpose, research objectives, proposed methodology, and a rationale for the research, including a brief literature review. The Advisor determines if the proposal is of sufficient merit to be forwarded to the Advisory Committee, which will receive it at least two weeks prior to a meeting, at which time the student will present their proposal in an oral defence format to their committee. The proposal defence will begin with a 20-30 minute presentation by the student that is followed by questions from the committee, with the total time being 1 1/2 to 2 hours. The Advisory Committee will determine at this time what revisions, if any, are necessary, and whether the proposal can be approved pending required revisions. Unanimous approval is required. The Advisor shall chair the proposal defence. The oral defence (presentation and questioning) may be open to the public if the Advisory Committee decides this is appropriate.</p>

<p>Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>If two or more advisory committee members are in a personal relationship, the “Conflict of Interest Disclosure Form” (<a href="https://umanitoba.ca/admin/governance/governing_documents/community/962.html">https://umanitoba.ca/admin/governance/governing_documents/community/962.html</a>) must be completed and submitted to the Faculty of Graduate Studies. See The University of Manitoba’s Conflict of Interest policy: <a href="https://umanitoba.ca/admin/governance/governing_documents/community/248.html">https://umanitoba.ca/admin/governance/governing_documents/community/248.html</a>.</p> <p>The advisor/co-advisor is the Chair of the advisory committee.</p> <p>Advisory committee meetings must be held at least annually, and are not intended to take the place of meetings between the student and advisor/co-advisor which should occur with much greater frequency than the advisory committee meetings.</p>	
<p><b>5.3 Program of Study</b></p> <p>As soon as possible, but no later than 24 months after a student has commenced their program, the student’s program of study should be registered with the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>) and should include:</p> <ul style="list-style-type: none"> <li>• information about the minimum or expected time for completion of the degree;</li> <li>• coursework to be taken along with course classification (“S”, “X”, “A” or “O”);</li> <li>• any foreign language requirement;</li> <li>• the research area in which the thesis will be written.</li> </ul> <p>The approval of the student’s advisor/co-advisor and the Head of the department/unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student’s advisor/co-advisor, the advisory committee, and the Head of the department/unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.</p>	
<p><b>5.4 Program Requirements</b></p> <p>All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:</p> <ul style="list-style-type: none"> <li>• Where admission to the Ph.D. is directly from a Master’s degree, a minimum of 12 credit hours at the 7000- level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.*</li> <li>• Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A</li> </ul>	<p><u>Where admission to the Ph.D. is directly from a Master’s degree:</u>  <u>The Ph.D. program requires a thesis plus a minimum of 12 credit hours which includes:</u></p> <ul style="list-style-type: none"> <li>• <u>GEOG 7620 E&amp;G Graduate Seminar- Ph.D. 1 (1.5 credit hours).</u></li> <li>• <u>GEOG 7630 E&amp;G Graduate Seminar- Ph.D. 2 (1.5 credit hours).</u></li> <li>• <u>9 credit hours at the 7000-level</u></li> </ul> <p><u>Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent:</u>  <u>The Ph.D. program requires a thesis plus a minimum of 24 credit hours which includes:</u></p> <ul style="list-style-type: none"> <li>• <u>GEOG 7620 E&amp;G Graduate Seminar- Ph.D. 1 (1.5 credit hours).</u></li> </ul>

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.*</p> <p>*Unless professional accreditation requirements and/or the department/unit's supplementary regulations indicate otherwise.</p>	<ul style="list-style-type: none"> <li>• <u>GEOG 7630 E&amp;G Graduate Seminar- Ph.D. 2 (1.5 credit hours).</u></li> <li>• <u>6 credit hours at the 3000-level or above</u></li> <li>• <u>15 credit hours at the 7000-level</u></li> </ul> <p><u>For both cases stated above, depending on the student's background and needs, the Advisory Committee may assign additional courses at the 3000-level or above.</u></p>
<p><b>5.4.1 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.</p>	<p>Not required.</p>
<p><b>5.4.2 Advance Credit</b></p> <p>Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the request to the Faculty of Graduate Studies by completing the "Advance Credit - Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 5.4.4 Lapse of Credit of Courses)</li> <li>• No more than 50% of the required coursework for the program can be achieved using advance credit.</li> <li>• A course may not be used for credit toward more than one degree, diploma or certificate.</li> <li>• The student must register at the University of Manitoba for at least two consecutive terms and must also complete the thesis and candidacy examination at The University of Manitoba. Regardless of the extent of advanced credit received, all students are required to pay applicable program fees.</li> </ul>	
<p><b>5.4.3 Transfer Credit</b></p> <p>Courses within a program of study may be taken elsewhere and transferred for credit at the University of Manitoba. All such courses:</p> <ul style="list-style-type: none"> <li>• must be approved for transfer to the program of study by the department/unit and the Faculty of Graduate Studies before the student may register for them;</li> <li>• are considered on an individual basis;</li> <li>• cannot be used for credit towards another degree;</li> <li>• may not exceed 50% of the minimum credit hours of coursework required of the student's graduate program at The University of Manitoba.</li> </ul> <p>Permission is granted in the form of a Letter of Permission which may be obtained by making an application to the Registrar's Office;</p>	

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>Student progress shall be reported <b>at least</b> annually (but no more than once every four (4) months) to the Faculty of Graduate Studies on the “Progress Report” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Students who receive two (2) consecutive “in need of improvement” or one (1) “unsatisfactory” rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be “Required to withdraw”.</p>	
<p><b>5.6.1 Performance in Coursework</b></p> <p>A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.</p>	
<p><b>5.6.2 Performance Not Related to Coursework</b></p> <p>Students may be required to withdraw from their Ph.D. program for reasons of unsatisfactory performance other than those related to failing grades. These include, but are not restricted to, unsatisfactory attendance and lack of progress in research and/or thesis preparation. Unsatisfactory performance must be reported to the Faculty of Graduate Studies on the “Progress Report” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the department/unit Head to the Dean of the Faculty of Graduate Studies.</p>	<p><del>Students must:</del></p> <ul style="list-style-type: none"> <li><del>• Give at least two presentations in the seminar series. This presentation is intended to provide an opportunity to present and receive feedback regarding preliminary thesis results.</del></li> </ul> <p><del>Students should:</del></p> <ul style="list-style-type: none"> <li><del>• Regularly attend the Departmental seminar series when possible.</del></li> </ul>
<p><b>5.7 Academic Requirement for Graduation</b></p> <p>All students must:</p> <ul style="list-style-type: none"> <li>• maintain a minimum degree grade point average (DGPA) of 3.0 with no grade below C+;</li> <li>• complete <a href="#">GRAD 7500</a></li> <li>• complete <a href="#">GRAD 7300</a></li> <li>• meet the minimum and not exceed the maximum course requirements; and</li> <li>• meet the minimum and not exceed the maximum time requirements.</li> </ul> <p>Individual department/units may have additional specific requirements for graduation and students should consult department/unit supplementary regulations for these specific requirements. A cumulative degree grade point average of 3.0 or greater is required in those courses that constitute the program of study for graduation in the Faculty of Graduate Studies.</p>	
<p><b>5.8 Candidacy Examination</b></p>	

## Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes

### Preamble

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Human Anatomy & Cell Science.

### Observations

1. The **Dept. of Human Anatomy and Cell Science** proposes (1) course deletion: ANAT 7470; (3) course introductions: ANAT 7472, ANAT 7474, ANAT 7476; and M.Sc. and Ph.D. supplementary regulation changes.

The course changes are being proposed to split up the 6 credit hour Human Gross Anatomy course into “system specific” 2 credit hour courses: Musculoskeletal Anatomy, Trunk Anatomy, and Head and Neck Anatomy that can be taken consecutively or as stand-alone courses. The courses will allow graduate students completing their studies within the Dept. of Human Anatomy and Cell Science greater flexibility in course selection, and allow them to gain human gross anatomy skills and knowledge that are more specific to their area of research and/or clinical practice. It is expected that the new courses could also be of greater interest to students completing graduate programming in other departments/faculties at the University of Manitoba.

The M.Sc. and Ph.D. supplementary regulation changes consist of:

- Composition of the HACS Grad Studies Committee: to ensure a majority of members hold primary appointment in HACS;
- Application procedures amended to explicitly state that a letter of support is required from a member of HACS faculty in order for application to be considered for review;
- Entrance/admission requirements: GPA required for admittance to program increase to 3.5
- MSc/PhD required coursework: updated to reflect current course offerings;
- Student advisors: amended to reflect that all primary advisors must hold appointment in HACS;
- Student advisory committee: amended to reflect that fact that at least one other member of the student advisory committee (other than advisor) must hold appointment within HACS;
- Thesis proposal for MSc and PhD programs amended to provide greater clarity regarding the academic requirements for each program.

#### Course Deletion

**ANAT 7470 Human Gross Anatomy**

**-6**

#### Course Introductions

**ANAT 7472 Human Gross Anatomy: Musculoskeletal**

**+2**



This dissection-based human gross anatomy course will provide a detailed understanding of the musculoskeletal (MSK) system of the human body. Students will learn about the anatomical complexities of bones, joints, ligaments, tendons, muscles, nerves and blood vessels of the upper extremity, lower extremity, and spine regions. Common MSK disorders will also be discussed using clinical cases to highlight the relation between anatomical structures and normal human function. Cannot be held with the former ANAT 7470.

**ANAT 7474 Human Gross Anatomy: Thorax**

**+2**

This course will provide an introduction to the structure and function of the trunk (thorax, abdomen, and pelvis) from an anatomical perspective. Using a combination of lectures, seminars, and dissection-based gross anatomy laboratory sessions, students will learn about thoracic wall anatomy and thoracic cavity contents including the heart and lung; abdominal wall anatomy and abdominal cavity contents including intestines and accessory digestive organs (liver, pancreas, and gallbladder), and spleen; and the pelvic wall and cavity anatomy in both males and females. Cannot be held with the former ANAT 7470.

**ANAT 7476 Human Gross Anatomy: Head and Neck**

**+2**

This course will provide an introduction to the structure and function of the Head and Neck region from an anatomical perspective. Using a combination of lectures, seminars, and dissection-based gross anatomy laboratory sessions, students will learn about the skull and cranial cavity, muscles of mastication and facial expressions, general aspects of the brain and cranial nerves, eyes and ears, nasal and oral cavities, glands, and blood vessels. Cannot be held with the former ANAT 7470.

**NET CREDIT HOUR CHANGE**

**0**

**Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

**Dept. of Human Anatomy & Cell Science**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

# Supplementary Regulations Faculty of Graduate Studies (FGS)

**Name of Unit/Program: Human Anatomy and Cell Science  
(M.Sc. & Ph.D.)**

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>The Faculty of Graduate Studies Academic Guide contains all the rules and policies pertaining to the Faculty of Graduate Studies. Adherence to these rules is of utmost importance for the effective functioning/operation of programs and for guiding and monitoring the progress of students. The integrity of the process is at stake. The major goal of this guide is to prevent potential problems that may affect the completion of a student's program. It is the responsibility of students and the department/unit offering a graduate program to read and follow the policies contained herein.</p> <p>All regulations as laid out in the Faculty of Graduate Studies Academic Guide are subject to revision by the appropriate bodies of the Faculty of Graduate Studies. This compendium is presented as the most recent set of regulations as a guideline for students and staff. Individual departments/units may have additional regulations that supplement these general regulations. All such supplementary procedures and regulations must be approved as specified by the By-Laws of the Faculty of Graduate Studies, be published and available to students, and kept on file in the Faculty of Graduate Studies Office.</p> <p>For those programs that are administered through a Faculty (as opposed to a Department) the term "Department" should be substituted by "Unit" within this document (i.e. Department Head becomes Unit Head.)</p> <p><b>PREFACE</b></p> <p>The Faculty of Graduate Studies is a pan-University faculty charged with the oversight of the administration of all graduate programs at the University. Therefore these regulations apply to all graduate students in all programs in all academic units. Individual units may require specific requirements above and beyond those in the following document, and students should consult unit supplementary regulations for these specific regulations. All unit supplementary regulations require approval of the Faculty of Graduate Studies.</p> <p><b>Definitions</b></p> <p>The "Dean, Faculty of Graduate Studies" shall be taken to mean the Dean, Faculty of Graduate Studies or designate.</p> <p>"Unit" shall be taken to mean the academic unit where the graduate student is pursuing his/her studies. Generally, this is the department. For Faculty-based programs, the Dean is the <i>de facto</i> Head of the unit. The term "unit" shall also include Schools of Faculties within the University. The Dean of the Faculty of Graduate Studies is the <i>de facto</i> Head of interdisciplinary programs administered by the Faculty of Graduate Studies. The Head of any unit may designate any of his/her responsibilities in this policy to another member of the unit, such as the Graduate Chair.</p>	<p>The Departmental Graduate Studies Committee (GSC) is responsible for overseeing the graduate program of the department. The GSC consists of <a href="#">a minimum of 5</a> departmental faculty members, the department Head (<i>ex officio</i>), and a graduate student.</p> <p><a href="#">A majority of members of the departmental Graduate Studies Committee must hold primary appointment with the department of Human Anatomy &amp; Cell Science.</a></p>
<p><b>1.1 Application and Admission Procedures</b></p> <p>The application (and all required documentation) is to be submitted directly to the Faculty of Graduate Studies via the online application system. <b>Applicants should contact the department/unit to which they are applying for the procedures and</b></p>	<p>Department of Human Anatomy and Cell Science 745 Bannatyne Avenue, Winnipeg MB R3E 0J9 Tel: (204) 789-3411 or 789-3788</p>

requirements of that department/unit. Contact information for each unit can be found at [http://umanitoba.ca/faculties/graduate\\_studies/admissions/programs/index.html](http://umanitoba.ca/faculties/graduate_studies/admissions/programs/index.html).

**1.1.1 Process:**

1.1.1 (a) A completed official application for admission form must be submitted, together with the application fee and supporting documentation, to the Faculty of Graduate Studies, via the online application system.

**NOTE:** International students must pay special attention to the appropriate requirements with respect to transcripts (see application form for details).

1.1.1 (b) Applications are subsequently reviewed by the unit offering the program which will decide whether the applicant meets the unit's criteria including, but not limited to, availability of advisors, space, and facilities.

1.1.1 (c) Notification of recommended/rejected applications is sent by the Head of the unit to the Faculty of Graduate Studies. Applications recommended for admission are checked to determine if they meet the Faculty of Graduate Studies' eligibility requirements. The Faculty of Graduate Studies then notifies applicants of their acceptance or rejection.

Fax: (204) 789-3920  
 E-mail: [anatomycellsci@umanitoba.ca](mailto:anatomycellsci@umanitoba.ca)  
 Web: [www.umanitoba.ca/faculties/medicine/anatomy](http://www.umanitoba.ca/faculties/medicine/anatomy)

~~Prior to submitting an application to the Faculty of Graduate Studies, prospective students must contact, and seek the provisional acceptance of, a faculty advisor before their application will be considered acceptable by the Department's Graduate Studies Committee.~~

Prior to submitting an application to the Faculty of Graduate Studies, a prospective student must first contact a HACS faculty member and then confirm that the faculty member is willing to serve as their graduate program advisor.

As part of the application, the student must provide a letter of support from the proposed advisor which provides information regarding the amount & duration of financial support available to the student during the course of their studies.

Applications that do not include a advisor's letter of support will ~~automatically~~ be rejected by the Department's Graduate Studies Committee

Please also refer to section 1.1.9 - Letters of Recommendation for further information regarding the advisor's letter of support.

**1.1.2 Deadlines for Recommended Applications (from Departments/Units to the Faculty of Graduate Studies)**

The following are the deadlines for receipt by the Faculty of Graduate Studies of recommendations from departments/units.

Term	Start Date	Canadian/US	International
FALL	September	July 1	April 1
WINTER	January	November 1	August 1
SUMMER	May	March 1	December 1

**IMPORTANT:** These are not application deadlines. Applicants are **required** to submit the application and documentation to the Faculty of Graduate Studies to meet the application deadline in place for a particular department/unit. Applicants are advised to confirm the deadline of the department/unit to which the application is being made; deadlines can be found on the application program page at [http://umanitoba.ca/faculties/graduate\\_studies/admissions/programs/index.html](http://umanitoba.ca/faculties/graduate_studies/admissions/programs/index.html).

**Completed applications and necessary supporting documents** should be submitted to the Faculty of Graduate Studies **at least one month prior** to the dates shown at the link below. Because of possible delays in processing, earlier submission is recommended.

For upcoming application deadlines, please consult the Graduate Program Page: [http://umanitoba.ca/faculties/graduate\\_studies/admissions/programs/hacs.html](http://umanitoba.ca/faculties/graduate_studies/admissions/programs/hacs.html)

**1.1.3 Application Fee**

A \$100.00 (CDN) non-refundable fee must accompany admission applications from all Canadian, Permanent Resident, and International applicants. The Physician Assistant

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<ul style="list-style-type: none"> <li>• Academic English Program for University and College Entrance (AEPUCE) (65%)</li> <li>• PTE Academic (61% overall)</li> </ul> <p><b>Note:</b></p> <p>In addition, foreign language students may be asked by the department/unit to complete the CanTEST prior to or following registration in the Faculty of Graduate Studies and, if need be, the department/unit may recommend remedial measures in language skills based on the results of the CanTEST. Some units may require a specific test or test scores greater than those indicated above. Students should check department/unit supplementary regulations for details.</p>	
<p><b>1.1.8 English Language Proficiency Test Exemption List</b></p> <p>Applicants holding secondary school diplomas and/or recognized university degrees from countries on the Faculty of Graduate Studies English Language exemption list are not required to submit an English Language Proficiency score. For more information please see our website at <a href="http://umanitoba.ca/faculties/graduate_studies/admissions/english_exemption_list.htm">http://umanitoba.ca/faculties/graduate_studies/admissions/english_exemption_list.htm</a></p>	
<p><b>1.1.9 Letters of Recommendation</b></p> <p>Letters of Recommendation are to be completed via the online application. Applicants are required to add their 'Recommendation Provider(s)' contact information so that each recommender is sent an automated email notification.</p> <p>Generally, two (2) Letters of Recommendation must be submitted to the Faculty of Graduate Studies. For the number of recommendation letters necessary, applicants should review their specific Program webpage at <a href="http://umanitoba.ca/faculties/graduate_studies/admissions/programs/index.html">http://umanitoba.ca/faculties/graduate_studies/admissions/programs/index.html</a>.</p>	<p><a href="#">As part of the application, the student must provide a letter of support from the proposed advisor which provides information regarding the amount &amp; duration of financial support available to the student during their studies.</a></p> <p><a href="#">Applications that do not include a advisor's letter of support will not be reviewed by the Department's Graduate Studies Committee</a></p> <p><a href="#">Please also refer to section 1.1. – Application and Admission Procedures for further information.</a></p>
<p><b>1.1.10 Admission Tests</b></p> <p>Some departments/units require admissions tests, such as the Graduate Record Examination (GRE®) or the Graduate Management Aptitude Test (GMAT™). These requirements are listed in the supplementary regulations of the particular department/unit, and if required, the scores must be submitted at the time of application.</p>	
<p><b>1.1.11 Entrance Requirements</b></p> <p>The minimum standard for acceptance into any category in the Faculty of Graduate Studies is a 3.0 Grade Point Average (GPA) or equivalent in the last two (2) previous years of full time university study (60 credit hours).</p> <p><b>Note:</b> This is the minimum requirement of the Faculty of Graduate Studies and departments/units may have higher standards and additional criteria.</p>	<p><a href="#">The minimum standard for acceptance into the any graduate program in the Department of HACS is a 3.5 Grade Point Average (GPA) or equivalent in the last two (2) previous years of full time university study (60 credit hours). In special circumstances, and with the prior approval of the proposed advisor, chair of the departmental Graduate Studies Committee, and head of the department, this GPA requirement may be waived.</a></p>

<p>academic integrity, plagiarism, and cheating.</p>			
<p>Student must conduct research in a safe and ethical manner, referring to their respective ethics board and supervisor(s) to ensure respect is maintained for: human dignity and/or animal welfare; vulnerable persons; informed consent; justice and diversity; confidentiality and privacy; beneficence and non-maleficence in the work that they conduct.</p>	<p><a href="#">GRAD 7300</a></p>	<p><a href="#">GRAD 7300</a></p>	
<p>Student must complete coursework as required by their program.</p>			
<p>Individual unit BFARs available at: <a href="http://umanitoba.ca/faculties/graduate_studies/admin/bfar.html">http://umanitoba.ca/faculties/graduate_studies/admin/bfar.html</a></p>			
<p><b>2.3 Academic Performance</b></p> <p>Student progress shall be reported <b>at least</b> annually, (but not to exceed once every four (4) months), to the Faculty of Graduate Studies on the “Progress Report” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Students who receive two (2) consecutive “in need of improvement” or one (1) “unsatisfactory” rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be “Required to withdraw”.</p>			<p><del>All graduate students enrolled in the program are required to submit a Departmental Annual Progress Report form to the Department at the same time that the FGS Progress Report form is submitted.</del></p>
<p><b>2.4 Performance in Coursework</b></p> <p>A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.</p> <p>A student may be permitted to remove deficiencies in grades by repeating the course or replacing it with an equivalent substitute course. In the event that a substitute course is used for remediation, the substituted course must be at the same or higher level as the failed course (e.g., at the graduate level for a failed graduate-level course). Each failed course may be repeated or replaced only once, to a maximum of six (6) credit hours of coursework. If a course is repeated or replaced, the highest grade obtained will be used in the determination of the degree grade point average. Students receiving a grade of “C” or less in more than six (6) credit hours of coursework are normally required to withdraw, unless otherwise stated in the department/unit’s supplementary regulations.</p> <p>Graduate students are not permitted to repeat a previously passed course.</p> <p><b>Note:</b></p>			

long as no more than one (1) term separates one graduate degree program from another graduate degree program.

Students on an exceptional/parental/regular leave of absence must register in [GRAD 7300](#) upon return from leave if it has not already been completed.

Visiting and Occasional students are not expected to complete [GRAD 7300](#). For further information see [http://umanitoba.ca/research/integrity/research\\_integrity.html](http://umanitoba.ca/research/integrity/research_integrity.html).

**2.7 Graduate Focus on Aging Concentration**

The Graduate Focus on Aging Concentration is available to any interested student who is enrolled in the Faculty of Graduate Studies and whose graduate work is concentrated in aging. To be eligible, a “Student intention to receive the Graduate Focus on Aging Concentration” form must be submitted to the Faculty of Graduate Studies. Masters or Doctoral students must complete the requirements of the program to which they have been admitted and the requirements of the Graduate Focus on Aging Concentration.

The Graduate Focus on Aging Concentration requirements include:

1. Six (6) credit hours of graduate (7000-level or higher) courses that focus on aging and are approved by the student’s Advisory Committee;
2. A thesis/practicum on an aging-related topic;
3. Having at least one Advisory committee member who is officially affiliated with the Centre on Aging as a Research Affiliate; and
4. Participating in the annual Spring Research Symposium of the Centre on Aging at least once as a poster presenter.

Graduate students may be able to attain their 6 credit hours of courses within the existing course requirements of their graduate program. Students must attain a minimum grade of C+ (or higher, if stipulated in the department/unit supplementary regulations), for the required 6 credit hours of aging courses.

Graduate students who are not in a thesis/practicum will be considered on a case-by-case basis.

Student progress in the Graduate Focus on Aging Concentration would normally be discussed with the student’s Advisory committee, and progress documented on the “Graduate Focus on Aging Concentration Completion” form which must accompany the Progress Report form submitted to the Faculty of Graduate Studies. The final Graduate Focus on Aging Concentration Completion form must be submitted no later than at least one week prior to the FGS deadline for graduands to submit theses/practica and other reports.

**SECTION 3: General Regulations: Pre-Master’s**

**3.1 Admission and Program Requirements**

Graduates of bachelor degree programs with a minimum grade point average (GPA) of 3.0 in the last two (2) full years of university study will be considered for admission to a Pre-Master’s program. These are the minimum requirements of the Faculty of Graduate Studies. Departments/Units may specify higher or additional criteria. Admission to a Pre-Master’s program does not guarantee future admission to a Master’s program. As the Pre-Master’s program of study is intended to bring a

Admission into the Pre-Masters is dependent on the approval of a prospective [ad](#)supervisor. The student is responsible for contacting and arranging a prospective [ad](#)supervisor prior to application to the Pre-Master’s program.

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<p>student's background up to the equivalent of the required four (4)-year degree, departments/units should assign to students, as part of their Pre-Master's program of study, an appropriate number of applicable upper level (3000 or 4000) undergraduate courses. Pre-Master's students are not normally allowed to register in 7000-level courses or above, with the exception of <a href="#">GRAD 7500</a>, unless prior permission is granted by the Dean of the Faculty of Graduate Studies or designate.</p>	
<p><b>3.2 Academic Performance</b></p> <p>3.2.1. The department/unit Head is responsible for assigning the courses and monitoring the progress of each student.</p> <p>3.2.2. A minimum degree grade point average of 3.0 with no grade below C+ must be maintained to continue in a Pre-Master's program. Students who fail to maintain this standing will be required to withdraw unless remedial action recommended by the department/unit (as described below) is approved by the Dean of the Faculty of Graduate Studies.</p> <p>3.2.3. Students deficient in six (6) hours of credit or less may be permitted to write a supplemental examination (when offered in the department/unit's supplementary regulations) in courses in which a grade of C or less was obtained.</p> <p>3.2.4. Students deficient in six (6) hours of credit or less with a grade of C, D, or F in a course or courses may be permitted, if the overall average is C or better, to write one (1) supplemental examination in each course (when permitted by the department/unit's supplementary regulations), to repeat the courses, or to take equivalent substitute courses.</p> <p><b>Note:</b> In exceptional circumstances, when a student is deficient in more than six (6) credit hours, the student may be permitted to repeat the Pre-Master's year, or to write supplemental examinations (when offered), or to substitute equivalent coursework in order to make up the deficiencies.</p> <p>A student may be permitted to repeat the Pre-Master's year only once, and to remove deficiencies in grades by writing a supplemental examination or repeating courses only one (1) time for each course to a maximum of nine (9) credit hours of coursework.</p> <p>If a course is repeated or a supplemental examination is written, the highest grade obtained in that course will be used in the determination of the degree GPA.</p> <p>The degree GPA is cumulative in a Pre-Master's program if more than one (1) year is required to complete the course requirements.</p> <p>A summary of all action taken administratively is to be reported to the Faculty of Graduate Studies Executive Committee.</p>	<p>The program of study for a Pre-Master's student will be arranged in consultation with the prospective <a href="#">adviser</a> and the Chair of the <a href="#">departmental</a> Graduate Studies Committee.</p> <p>Course work at the Pre-Master's level will normally consist of 24 credit hours of approved course work at the undergraduate level that may be taken through any department.</p>
<p><b>SECTION 4: General Regulations: Master's</b></p> <p><b>4.1 General</b></p> <p>Although general regulations apply to all students, individual departments/units may have additional regulations that supplement these general regulations. All such supplementary regulations must be approved (as specified by the By-Laws of the</p>	

<p>Faculty of Graduate Studies), be published and available to students (<a href="http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html">http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html</a>), and be kept on record in the Faculty of Graduate Studies. All students should consult department/unit supplementary regulations for specific details regarding admission, program requirements, progression, and completion. Individual departments/units may offer Master's programs by one or more of the following:</p> <ul style="list-style-type: none"> <li>• Thesis/practicum-based;</li> <li>• Course-based;</li> <li>• Comprehensive Exam;</li> <li>• Project;</li> <li>• Accredited Professional.</li> </ul>	
<p><b>4.2 Diploma Programs</b></p> <p>The regulations for the Master's program shall also prevail for diploma programs. All students should consult the department/unit supplementary regulations regarding diploma programs.</p>	
<p><b>4.3 Admission</b></p> <p><b>4.3.1 General Criteria</b></p> <p>Students who are eligible to be considered for direct admission to a program of study leading to the Master's degree include:</p> <ul style="list-style-type: none"> <li>• Graduates of four (4)-year undergraduate degree programs (or equivalent as deemed by the Faculty of Graduate Studies) from: <ul style="list-style-type: none"> <li>○ Canadian institutions empowered by law to grant degrees; or</li> <li>○ Colleges and universities outside Canada which are officially recognized by the Faculty of Graduate Studies.</li> </ul> </li> <li>• Graduates from first-cycle Bologna compliant degrees.</li> <li>• Students who have completed a Pre-Master's program from: <ul style="list-style-type: none"> <li>○ The University of Manitoba; or</li> <li>○ Canadian institutions empowered by law to grant degrees; or</li> <li>○ Colleges and universities outside Canada which are officially recognized by The Faculty of Graduate Studies.</li> </ul> </li> </ul> <p>All students applying for a Master's degree program must have attained a minimum GPA of 3.0 in the last two (2) full years (60 credit hours) of study. This includes those applying for direct admission and those entering from a Pre-Master's program. Students who meet the minimum requirements for admission to the Faculty of Graduate Studies are not guaranteed admission.</p> <p><b>Note:</b> This is the minimum requirement of the Faculty of Graduate Studies and departments/units may have higher standards and additional criteria.</p>	<p>A four year B.Sc. degree from an academic institution recognized by the Faculty of Graduate Studies is required. (Students who have completed the pre-Master's program or equivalent from the University of Manitoba or another recognized university are also eligible to be considered for admission.)</p> <p><u><a href="#">Admission is dependent upon the availability and willingness of a faculty member in the department to supervise the student and the resources to support the student's research.</a></u></p> <p><u><a href="#">Prior to submitting an application to the Faculty of Graduate Studies, a prospective student must contact a HACS faculty member and confirm that the faculty member is willing to serve as their graduate program advisor.</a></u></p> <p><u><a href="#">As part of the application, the student must provide a letter of support from the proposed advisor which provides information regarding the amount &amp; duration of financial support available to the student.</a></u></p> <p><u><a href="#">Applications that do not include an advisor's letter of support will be rejected by the Department's Graduate Studies Committee</a></u></p> <p><u><a href="#">All students applying for a Master's degree program within the Department of HACS must have attained a minimum GPA of 3.5 in the last two (2) full years (60 credit hours) of study. In special circumstances, and with the prior approval of the proposed advisor, chair of the departmental Graduate Studies Committee, and head of the</a></u></p>



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	<a href="#">department, this departmental GPA requirement may be waived.</a>
<p><b>4.3.2 Pre-Master's Programs</b></p> <p>In specific cases where the academic background of the student is judged to be insufficient for the given program in a department/unit, the department/unit may recommend that the student be admitted to a Pre-Master's program of study (Section 3).</p> <p>The Pre-Master's program of study is intended to bring a student's background up to the equivalent of the required 4-year degree in the major department/unit, and to provide the student with any necessary prerequisites for courses to be taken in the Master's program.</p>	
<p><b>4.4 Program Requirements</b></p> <p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	
<p><b>4.4.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p>Required course work at the Master's level will consist of a <u>minimum</u> of 9 credit hours of approved course work at the 7000 level. <del>Students are required to take:</del></p> <p><a href="#">All students are required to complete:</a></p> <ul style="list-style-type: none"> <li>• IMED 7410 – Biomedical Trainee Skills (3 CH)</li> </ul> <p>Plus at least one of the following <a href="#">courses</a>:</p> <ul style="list-style-type: none"> <li>• ANAT 7460 – Human Histology: Basic Tissues (1.5 CH)</li> <li>• <del>ANAT 7462 – Human Histology: Systems I (1.5 CH)</del></li> <li>• <del>ANAT 7464 – Human Histology: Systems II (1.5 CH)</del></li> <li>• <del>ANAT 7466 – Human Histology: Systems III (1.5 CH)</del></li> <li>• ANAT 7380 – Human Developmental Anatomy (Embryology) (3 CH)</li> <li>• ANAT 7392 – Human Neuroanatomy (3 CH)</li> <li>• <del>ANAT 7470 – Graduate Gross Anatomy (6 CH)</del></li> <li>• <del>ANAT 7472 Graduate Gross Anatomy – Musculoskeletal (2 CH)</del></li> <li>• <del>ANAT 7474 Graduate Gross Anatomy – Trunk Anatomy (Thorax, Abdomen, Pelvis) (CH 2)</del></li> <li>• <del>ANAT 7476 Graduate Gross Anatomy – Head &amp; Neck (CH 2)</del></li> <li>• IMED 7004 – Human Brain Imaging Methods (1.5 CH)</li> </ul>

	<ul style="list-style-type: none"> <li>• <del>IMED 7092 – Cell Biology A: Introductory (3 CH)</del></li> <li>• <del>IMED 7094 – Cell Biology B: Special Topics (3 CH)</del></li> <li>• IMED 7112 – Fundamental Cellular Neurobiology (1.5 CH)</li> <li>• IMED 7114 – Fundamental Neural Development and Plasticity (1.5 CH)</li> <li>• <del>IMED 7116 – Fundamental Systems Neuroscience (1.5 CH)</del></li> <li>• <del>IMED 7118 – Fundamental Neurobiology of Disease (1.5 CH)</del></li> <li>• <del>IMED 7180 – Molecular Approaches in Medical Research (3 CH)</del></li> <li>• <del>IMED 7200 – Cancer Biology (3 CH)</del></li> <li>• <del>IMED 7210 – Epigenetics in Development and Human Diseases (1.5 CH)</del></li> <li>• <del>IMED 7242 – Nucleic Acids: Structure and Function in Normal Development and Diseases (1.5 CH)</del></li> <li>• <del>IMED 7244 – Nucleic Acids: Manipulation in Biomedical Research (1.5 CH)</del></li> <li>• <del>IMED 7290 – Developmental Biology (3 CH)</del></li> <li>• <del>IMED 7300 – Microscopy, Optics, Imaging and Analysis in Health Research (3 CH)</del></li> <li>• <del>IMED 7302 – Advanced Molecular Imaging (3 CH)</del></li> <li>• <u>ANAT 7012 Advanced Level Human Brain Imaging Methods (1.5 CH)</u></li> <li>• <u>ANAT 7320 Introduction to Scanning and Transmission Electron Microscopy (3.0 CH)</u></li> <li>• <u>ANAT 7400 – Morphological Techniques (3 CH)</u></li> <li>• <u>ANAT 7330 – Readings in Anatomy (3 CH)</u></li> </ul> <p>Mandatory attendance at seminars that are part of the Departmental Seminar Program is required. Failure to attend a minimum of 80% of the seminars over the course of an academic year will be taken into consideration at the time of the annual progress report.</p> <p>The course work required for an individual student will be specified in consultation with the student's faculty advisor, and will depend upon the student's <a href="#">academic background</a> <a href="#">and area of research</a>.</p>
<p><b>4.4.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless</p>	<p>This department does not offer a comprehensive examination or practicum route for a Master's degree.</p>

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<ul style="list-style-type: none"> <li>may not exceed 50% of the minimum credit hours of coursework required of the student's graduate program at The University of Manitoba.</li> </ul> <p>Permission is granted in the form of a Letter of Permission which may be obtained by making an application to the Registrar's Office (<a href="http://umanitoba.ca/student/records/leave_return/710.html">http://umanitoba.ca/student/records/leave_return/710.html</a>); an original transcript and course equivalency must be provided.</p>	
<p><b>4.4.7 Time in Program</b></p> <p>The minimum time for students in the Master's program is equivalent to two (2) terms. Completion of most programs requires more than this and students should check department/unit supplementary regulations regarding specific requirements.</p> <p>The maximum time allowed for the completion of the Master's degree is four (4) years for students declared as full-time and six (6) years for students declared as part-time (see section 1.4.1 for information on calculating maximum time for students). Individual department/units and/or programs may have specified minimum and maximum time limits, and students should periodically check department/unit supplementary regulations regarding these specific requirements.</p> <p>Requests for extensions of time to complete the degree will be considered on an individual basis and must be submitted to the Dean of the Faculty of Graduate Studies using the "Time Extension Request" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>) <b>at least three (3), but no more than four (4), months</b> prior to expiration of the respective maximum time limit.</p> <p>A student who has not completed the degree requirements within the time limit or within the time limit of the extension will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".</p>	
<p><b>4.5 Student's Advisor and Co-Advisor</b></p> <p><b>4.5.1 Student's Advisor</b></p> <p>Each student should have an advisor upon entry into the program, and must have one assigned no later than one (1) term following registration. The advisor must:</p> <ul style="list-style-type: none"> <li>hold an appointment in the student's department/unit;</li> <li>be a member of the Faculty of Graduate Studies*;</li> <li>hold at least a Master's degree or equivalent**;</li> <li>be active in research;</li> <li>have expertise in a discipline related to the student's program.</li> </ul> <p>*(<a href="http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html">http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html</a>)</p> <p>**Equivalency will be approved by the Dean of the Faculty of Graduate Studies and determined on a case by case basis and assessed by the potential advisor's demonstrated research record and current research activities. Note that M.D., D.M.D.,</p>	<p>Each Master's student must have a <a href="#">program thesis advisor</a> prior to admission to the department.</p> <p><a href="#">All graduate student advisors and co-advisors must hold appointment with the Department of HACS.</a></p>

The advisor, co-advisor (if applicable) and student must discuss, and complete, the Faculty of Graduate Studies Advisor Student Guidelines prior to the commencement of any research and no later than the submission of the first Progress Report for the student. If a student does not have an advisor/co-advisor, then the interim advisor will be required to complete the Advisor Student Guidelines. The advisor/co-advisor and the student are required to approve the agreement. If the parties cannot agree on any component(s) of the Advisor Student Guidelines, the matter should be referred to the department/unit Head, Graduate Chair, or the Dean of the Faculty of Graduate Studies. The Advisor Student Guidelines is to be completed again if there is a change in advisor/co-advisor or when a co-advisor is added mid-way through the student's program.

Should, during the student's program, the relationship between the student and advisor/co-advisor significantly deteriorate, the matter should be referred to the department/unit Head, Graduate Chair, or the Dean of the Faculty of Graduate Studies. It is the responsibility of the unit offering the program in which the student is studying to arrange an alternate advisor if this is appropriate and necessary.

All students should consult department/unit supplementary regulations for specific details regarding advisor/co-advisor requirements.

**4.6 Advisory Committee**

**4.6.1 Thesis/Practicum Route**

Advisory committees are selected by the advisor/co-advisor in consultation with the student and should consist of individuals whose expertise is consistent with that necessary to provide additional advice and guidance to the student during their research program. The advisory committee must consist of a minimum of three (3) members (including the advisor/co-advisor), at least two (2) of whom must be members of the Faculty of Graduate Studies ([http://umanitoba.ca/faculties/graduate\\_studies/governance/academic\\_membership.html](http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html)). All examiners must be deemed qualified by the department/unit Head and be willing to serve. It is expected, under normal circumstances, that advisory committee members will possess at least a Master's degree or equivalent. Advisory committees may include one (1) non-voting guest member who has expertise in a related discipline but is not a member of the Faculty of Graduate Studies.

The composition of, and any changes to, the advisory committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies. The advisor/co-advisor is the Chair of the advisory committee. If two or more advisory committee members are in a personal relationship, the "Conflict of Interest Disclosure Form" ([https://umanitoba.ca/admin/governance/governing\\_documents/community/962.html](https://umanitoba.ca/admin/governance/governing_documents/community/962.html)) must be completed and submitted to the Faculty of Graduate Studies. See The University of Manitoba's Conflict of Interest policy: [https://umanitoba.ca/admin/governance/governing\\_documents/community/248.html](https://umanitoba.ca/admin/governance/governing_documents/community/248.html).

Additional specifications, if any, regarding the advisory committee are found in the department/unit supplementary regulations and students should consult these regulations for specific requirements.

An Advisory Committee ~~consisting of a minimum of 3 members of the Faculty of Graduate Studies (including the advisor),~~ must be selected within **six months** of the student's entry to the M.Sc. program.

*At least one member of the advisory committee (in addition to the student advisor) must hold primary appointment within the department.*

**4.6.2 Course-based or Comprehensive Examination Route**

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<p>and as approved by the Dean of the Faculty of Graduate Studies) to meet the minimum credit hour requirements for their program.</p>	
<p><b>4.7.3 Academic Performance</b></p> <p>Student progress shall be reported <b>at least</b> annually (but no more than once every four (4) months) to the Faculty of Graduate Studies on the “Progress Report” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the “Progress Report” form. Students who receive two (2) consecutive “in need of improvement” or one (1) “unsatisfactory” rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be “Required to withdraw”.</p>	<p><del>The departmental</del>A copy of the “Annual Progress Report” form must also be <del>completed and</del> submitted to the Department of Human Anatomy and Cell Science at the same time as the <del>Progress Report</del> form is submitted to the Faculty of Graduate Studies.</p>
<p><b>4.7.4 Performance in Coursework</b></p> <p>A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.</p>	
<p><b>4.7.5 Performance not related to Coursework</b></p> <p>In some departments/units, students are required to demonstrate satisfactory academic performance in areas not related to performance in courses, such as attendance at or participation in course lectures, seminars and in laboratories and progress in research, thesis or practicum. The specific nature of satisfactory academic performance is outlined in individual department/unit supplementary regulations and students should consult these supplementary regulations for specific requirements. Unsatisfactory performance must be reported to the Faculty of Graduate Studies on the “Progress Report” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>). Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the department/unit Head to the Dean of the Faculty of Graduate Studies.</p>	<p>Attendance at departmental seminars is mandatory. Departmental seminars include seminars that are part of the Departmental Seminar Program as well as Ph.D. proposal seminars, candidacy exams, and thesis defences. Failure to attend a minimum of 80% of the seminars over the course of an academic year will be taken into consideration at the time of the annual progress report and can lead to an unsatisfactory performance evaluation. In addition, attendance and participation at departmental seminars will be taken into consideration when the GSC evaluates applications for studentships and awards (e.g. Mann Award, department merit awards, department/faculty travel awards, etc.).</p> <p>M.Sc. students will normally be required to present at least one paper (poster or platform) at a scientific meeting before submission of their thesis for examination.</p>
<p><b>4.8 Academic Requirements for Graduation</b></p> <p>All students must:</p> <ul style="list-style-type: none"> <li>• maintain a minimum degree grade point average (DGPA) of 3.0 with no grade below C+;</li> <li>• complete <a href="#">GRAD 7500</a></li> <li>• complete <a href="#">GRAD 7300</a></li> </ul>	

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<ul style="list-style-type: none"> <li>• meet the minimum and not exceed the maximum course requirements; and</li> <li>• meet the minimum and not exceed the maximum time requirements.</li> </ul> <p>Individual department/units may have additional specific requirements for graduation and students should consult department/unit supplementary regulations for these specific requirements.</p>	
<p><b>4.8.1 Thesis/Practicum Route</b></p> <p><b>4.8.1.1 Thesis vs. Practicum</b></p> <p>Students must demonstrate their mastery of the field and that they are fully conversant with the relevant literature through their thesis/practicum. The thesis or practicum will normally be written in English unless the student is studying in a program at the Université de Saint-Boniface, or departmental/unit supplementary regulations allow a different language to be used.</p> <p>A practicum differs from the thesis in its emphasis on the application of theory, it is however similar in scope, span, and rigour. The practicum takes the form of an exercise in the practical application of knowledge and skill. It usually involves the careful definition of a problem, the application of appropriate knowledge and skills to the problem, and a report of the results in a manner suitable for evaluation by an examining committee. Individual department/units have specific requirements for graduation and students should consult department/unit supplementary regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the practicum.</p> <p>The thesis is developed under the mentorship of the advisor/co-advisor. Individual department/units may have specific guidelines regarding the thesis proposal and its acceptance by the student's advisory committee and department/unit Head; students should consult department/unit supplementary regulations for specific requirements. Research must be approved by the appropriate Human Research Ethics Board or Animal Care Committee, if applicable, before the work has begun on the thesis research.</p>	<p><b>MSc Research Proposal</b></p> <p><b>Written Component:</b> A written research proposal must be submitted to the department for approval <b>within six to nine months</b> of the student's entering the program. The proposal (<u>a maximum of 10 5-7</u> pages double spaced not including figures and references) will outline the research question / hypothesis, as well as the background and rationale for the study. The proposal will also describe the experimental approach, the anticipated results, and the significance of the study.</p> <p>The proposal will be circulated to the advisory committee members and one member of the GSC (to be determined by the Chair of the GSC <del>in consultation with the Department Head</del>) for review and approval. <u>Reviewers have a maximum of 4 weeks to complete their review and submit written feedback to the student's advisor and the chair of the departmental Grad Studies Committee</u> Students may be required to incorporate feedback from the committee into the proposal. Revised proposals incorporating suggestions from the committee members may need to be re-submitted to the committee.</p> <p><b>Oral Component:</b> <u>Oral presentation of the MSc research proposal examination/defense of the MSc research proposal is not a requirement within the department.</u></p>
<p><b>4.8.1.2 Examining Committee</b></p> <p>The advisor/co-advisor will recommend an examining committee to the department/unit Head for approval, which shall then be reported to the Faculty of Graduate Studies on the "Master's Thesis/Practicum Title and Appointment of Examiners" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>). This form must be approved by the Dean of the Faculty of Graduate Studies at least two (2) weeks prior to the distribution of the thesis.</p> <p>Under normal circumstances, the examining committee will be the same as the advisory committee unless otherwise stipulated in the department/unit's supplementary regulations. The examining committee must consist of a minimum of three (3) members (including the advisor/co-advisor), at least two (2) of whom must be members of the Faculty of Graduate Studies. All examiners must be deemed qualified by the department/unit Head and be willing to serve. It is expected that, under normal circumstances, examination committee members will have a Master's degree or equivalent. The composition of, and any changes to, the examining committee, including the advisor/co-advisor, must be approved by the Faculty of</p>	<p>The examining committee will normally consist of the members of the student's advisory committee.</p> <p><u>The student's advisor will distribute the thesis to all members of the advisory committee and the chair of the departmental Grad Studies Committee.</u></p>

Graduate Studies. Individual department/units establish specific requirements for examination and students should consult department/unit supplementary regulations for specific requirements.

Graduate students, Post-Doctoral fellows, and Research Assistants or Associates may not serve on graduate student examining committees.

If two or more examining committee members are in a personal relationship, the "Conflict of Interest Disclosure Form" ([https://umanitoba.ca/admin/governance/governing\\_documents/community/962.html](https://umanitoba.ca/admin/governance/governing_documents/community/962.html)) must be completed and submitted to the Faculty of Graduate Studies. See The University of Manitoba's Conflict of Interest policy: [https://umanitoba.ca/admin/governance/governing\\_documents/community/248.html](https://umanitoba.ca/admin/governance/governing_documents/community/248.html).

The Head of the department/unit arranges for the distribution of the thesis/practicum to the examiners. It is the duty of all examiners to read the thesis/practicum and report on its merits according to the following categories:

- Acceptable, without modification or with minor revision(s); or
- Acceptable, subject to modification and/or revision(s); or
- Not acceptable.

If two or more examiners do not approve the thesis, then the student is deemed to have failed the distribution.

Note that in the case of an advisor and co-advisor, both together have a single vote on the examining committee.

**4.8.1.3 Oral Examination**

For department/units requiring students to pass an oral examination on the subject of the thesis/practicum and matters relating thereto, the format of the oral examination is described in the supplementary regulations of the department/unit. Students should consult these supplementary regulations for specific requirements. A student has the right to an examination of the thesis/practicum if they believe it is ready for examination. It is the department/unit's responsibility to advise the student of any risk involved should they decide to proceed against the department/unit's recommendation.

All members of the examining committee are required to be present at the examination. Under exceptional circumstances, and with the prior approval of the Dean of the Faculty of Graduate Studies, one (1) member may participate electronically. Only under very exceptional circumstances can the student or the Advisor/Co-advisor participate electronically. No recording devices will be permitted. The oral examination must be held at either The University of Manitoba Fort Garry or Bannatyne campus, Université de Saint-Boniface, or the St. Boniface Hospital Albrechtsen Research Centre normally during regular business hours. The oral examination shall be open to all members of The University of Manitoba community except in exceptional cases. The oral examination may be closed, for example, when the results of the thesis/practicum research must be kept confidential for a period of time. In such cases, the examining committee and department/unit Head shall recommend such action to the Dean of the Faculty of Graduate Studies who shall

MSc Thesis Defense: Students must notify the [chair of the departmental Grad Studies Committee](#) at least four (4) weeks in advance of their scheduled date of the thesis defence.

Students must pass an oral examination on the subject of the thesis and related matters. The student will be given a maximum of 30 minutes to ~~will~~ present their thesis research (~~approximately 30-40 minutes~~) and this will be followed by an oral examination of the thesis, with a question period that is questioning not to exceed one (1) hour in duration. The Chair of the GSC (or designate) will act as the Chair of the thesis defence.

then decide whether to grant that the final examination be closed to all but the examining committee and the Dean of the Faculty of Graduate Studies (or delegate).

The oral examination will normally be held in English unless the student is studying in a program at the Université de Saint-Boniface, or departmental/unit supplementary regulations allow a different language to be used.

Following completion of the examination of the thesis/practicum, examiners will consider the oral examination and the written thesis/practicum.

The examiners will also determine the nature of and procedures for approval of any revisions that will be required prior to submission of the thesis/practicum to the Faculty of Graduate Studies. The advisor/co-advisor is normally responsible for ensuring that revisions are completed according to the instructions from the examining committee.

The judgment of the examiners shall be reported to the Faculty of Graduate Studies in the qualitative terms "approved" or "not approved" on the "Thesis/Practicum Final Report" form ([http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)). Each examiner must indicate their opinion by their signature. If two (2) or more examiners do not approve the thesis/practicum, the student is deemed to have failed the examination.

#### 4.8.1.4 Failure

In the case of a failure of the thesis/practicum at the Master's level, a detailed written report will be prepared by the Chair of the examination committee and submitted to the Faculty of Graduate Studies, who will make the report available to the student and advisor/co-advisor.

A student will be required to withdraw when the thesis/practicum has been rejected twice at the stage where:

- The examining committee reports on the merits of the written thesis/practicum;
- The oral examination; or
- A combination of both stages.

The examining process should be completed within one (1) month of distribution of the thesis/practicum to the examining committee.

#### 4.8.2 Course-based or Comprehensive Examination Route

Students must demonstrate their mastery of their field. The specific procedures for evaluation of this mastery are stated in individual department/unit supplementary regulations.

In those department/units where comprehensive examinations are required, students should consult the department/unit's supplementary regulations for specific requirements.

The results of the comprehensive examinations shall be submitted to the Faculty of Graduate Studies on the "Report on Comprehensive Examination" form ([http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)) in the terms "pass"

[This department does not offer a course-based/comprehensive examination route for a Master's degree.](#)



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<p>or "fail." No student may sit comprehensive examinations more than twice. Any student who receives a "fail" on the comprehensive examination twice will be required to withdraw from the Faculty of Graduate Studies.</p>	
<p><b>4.9 Style and Format</b></p> <p>The thesis/practicum must be written according to a standard style acknowledged by a particular field of study (see <a href="#">Appendix 1</a>).</p>	
<p><b>4.10 Details for Submission of the Final Copy</b></p> <p>Following the approval of the thesis/practicum by the examining committee and the completion of any revisions required by that committee, the thesis/practicum, must be submitted to the Faculty of Graduate Studies as follows:</p> <ul style="list-style-type: none"> <li>• One digital version submitted as an e-thesis/practicum at the MSpace website (<a href="http://mspace.lib.umanitoba.ca/xmlui/login">http://mspace.lib.umanitoba.ca/xmlui/login</a>);</li> <li>• Thesis/Practicum final report;</li> <li>• Copyright License Declaration form (located within MSpace).</li> </ul>	
<p><b>4.11 Publication and Circulation of Thesis/Practicum</b></p> <p>Every graduate student registering in a thesis/practicum Master's program at The University of Manitoba shall be advised that, as a condition of being awarded the degree, they will be required to grant a license of partial copyright to the University and to the Library and Archives Canada for any thesis or practicum submitted as part of their degree program.</p> <p><b>Note:</b> This license makes the thesis/practicum available for further research only. Publication for commercial purposes remains the sole right of the author.</p> <p>The Copyright Licence Declaration/Infringement Form must be completed on MSpace. This and other related regulations may give rise to important questions of law, and students may need additional legal advice on the copyright laws of Canada and/or other countries. Students who wish to obtain legal advice concerning their subsequent rights are advised to do so prior to signing the agreements. Signing of the license agreements is normally done after the contents of the thesis/practicum have been delineated and the importance of copyright and/or patents fully understood and appreciated.</p> <p>Publication in the above manner does not preclude further publication of the thesis or practicum report or any part of it in a journal or in a book. In such cases, an acknowledgement that the work was originally part of a thesis/practicum at The University of Manitoba should be included.</p> <p><b>Notes:</b></p> <p><b>Patents</b> –Refer to section 6 "<a href="#">Policy of Withholding Theses Pending Patent Applications</a>" in this Guide.</p> <p><b>Restriction of Thesis/Practicum for Publication</b> – In exceptional cases, not covered by the regulation concerning patents, where adequate cause can be shown</p>	<p>In addition to the copies of the thesis required by the Faculty of Graduate Studies, the Department of Human Anatomy and Cell Science requires an <a href="#">bound-electronic</a> copy of the final version of the Master's thesis (submitted to the departmental office).</p>

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<p>to delay publication, the student and advisor/co-advisor may request in writing that the Dean of the Faculty of Graduate Studies restrict access for a period up to one (1) year after submission of the digital version of a thesis or practicum to The University of Manitoba. The Dean shall determine for what period, if any, access will be so restricted.</p> <p><b>Library and Archives Canada</b> – Library and Archives Canada obtains a copy of the thesis via the University's MSpace repository.</p>	
<p><b>4.12 Final Requirements and Deadlines for Graduation</b></p> <p>The final requirements of the degree, in the form of the final report on the thesis/practicum (and the corrected copy of the thesis/practicum and Copyright License Declaration uploaded into MSpace); comprehensive examination; M. Eng. project; or Design thesis, must be submitted to the Faculty of Graduate Studies by the appropriate deadline. For those programs that do not have a culminating exercise (thesis/practicum/comprehensive examination/M.Eng. project/Design thesis), the department/unit must forward a list of potential graduate names to the Faculty of Graduate Studies by the deadline. The deadline for each of the graduation dates is published on the Faculty of Graduate Studies website at <a href="http://umanitoba.ca/faculties/graduate_studies/deadlines/index.html">umanitoba.ca/faculties/graduate_studies/deadlines/index.html</a>.</p>	
<p><b>SECTION 5: Doctor of Philosophy General Regulations</b></p> <p>The degree of Doctor of Philosophy (Ph.D.) is granted only upon evidence of general proficiency and of distinctive attainment in a special field. In particular, the candidate must demonstrate an ability for independent investigation, original research or creative scholarship. This is expected to be presented in a thesis with a degree of literary skill and by an oral examination wherein the candidate exhibits mastery of their field. The Ph.D. is a research degree and is not conferred by The University of Manitoba solely as a result of coursework study.</p> <p>Although general regulations apply to all students, individual department/units may have additional regulations that supplement these general regulations. All such supplementary regulations must be approved (as specified by the By-Laws of the Faculty of Graduate Studies), be published and available to students (<a href="http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html">http://umanitoba.ca/faculties/graduate_studies/admin/supplemental_regulations.html</a>), and be kept on record in the Faculty of Graduate Studies. All students should consult department/unit supplementary regulations for specific details regarding admission, program requirements, progression, and completion.</p>	<p><del>Admission is dependent upon the availability and willingness of a faculty member in the department to supervise the student and the resources to support the student's research.</del></p> <p><del>Prior to submitting an application to the Faculty of Graduate Studies, a prospective student must contact a HACS faculty member and confirm that the faculty member is willing to serve as their graduate program advisor.</del></p> <p><del>As part of the application, the student must provide a letter of support from the proposed advisor which provides information regarding the amount &amp; duration of financial support available to the student.</del></p> <p><del>Applications that do not include an advisor's letter of support will automatically be rejected by the Department's Graduate Studies Committee</del></p>
<p><b>5.1 Admission</b></p> <p><b>5.1.1 General criteria</b></p> <p>Normally, the completion of a Master's degree or equivalent from a recognized university and a cumulative GPA of 3.0 or equivalent in the last two (2) previous years of full time university study (60 credit hours) is the minimum requirement for admission to the Ph.D. program.</p> <p><b>Note:</b> This is the minimum requirement of the Faculty of Graduate Studies and department/units may have higher standards and additional criteria. However, the criteria for admissions into the Ph.D. program are more stringent than for Master's</p>	<p><del>Admission is dependent upon the availability and willingness of a faculty member in the department to supervise the student and the resources to support the student's research.</del></p> <p><del>The Graduate Studies Committee (GSC) will review the application. If the application is found to be satisfactory the committee will recommend admission of the student to the Faculty of Graduate Studies.</del></p> <p><del>Admission is dependent upon the availability and willingness of a faculty member in the department</del></p>

programs; therefore, the completion of a Master's program does not guarantee admission into the Ph.D. program. Some department/units require completion of a thesis-based Master's program prior to admission to a Ph.D. program.

to supervise the student and the resources to support the student's research.

Prior to submitting an application to the Faculty of Graduate Studies, a prospective student must contact a HACS faculty member and confirm that the faculty member is willing to serve as their graduate program advisor.

As part of the application, the student must provide a letter of support from the proposed advisor which provides information regarding the amount & duration of financial support available to the student.

Applications that do not include an advisor's letter of support will be rejected by the Department's Graduate Studies Committee

Please also refer to section 5.2.1 – Student's Advisor for further information regarding the advisor's letter of support.

All students applying for the PhD degree program within the Department of HACS must have attained a minimum GPA of 3.5 over their last 12 credit hours of study (over a minimum 6 credit hours) completed at a Masters (or 7000) level (or 6 credit hours of study if transferring directly from the HACS MSc program).

In special circumstances, and with the prior approval of the proposed advisor, chair of the departmental Graduate Studies Committee, and head of the Department, this departmental GPA requirement may be waived.

**5.1.2 Direct Admission from the Bachelor's Honours or equivalent**

With special recommendation of the department/unit concerned, applicants with an honours Bachelor's degree or equivalent may be considered for entry to Ph.D. study. These students must be outstanding in their academic background (GPA well above 3.0 in the last two full years of undergraduate study).

**Note:** This is the minimum requirement of the Faculty of Graduate Studies and department/units may have higher standards and additional criteria. Once admitted, these students must complete at least 24 credit hours of coursework, unless the individual department/unit's approved supplementary regulations specify otherwise, and will be assessed Ph.D. fees for three (3) years. A minimum of 18 credit hours at the 7000-level or higher is required. Any further coursework beyond the minimum 18 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.

The department may consider students from entry-to-practice undergraduate programs (eg. medicine, dentistry, nursing) for direct entry to a Ph.D degree program. This will be considered on an individual case-by-case basis, and be at the discretion of the proposed advisor, chair of the departmental Graduate Studies Committee, and head of the Department.

Students must have attained a minimum cumulative GPA of 3.5 during their Bachelor's or equivalent degree in order to be eligible for direct entry to a Ph.D degree program.

Applicants will be considered on an individual case-by-case basis, and be at the discretion of the proposed advisor, chair of the departmental Graduate Studies Committee, and head of the Department.

	<a href="#">Required course work at the PhD level will consist of a minimum of 12 credit hours of approved course work at the 7000 level</a>
<p><b>5.1.3 Transfer from the Master's to the Ph.D. program</b></p> <p>Students who have not completed a Master's program may transfer to the Ph.D. program within the same department/unit upon the recommendation by the Head of the department/unit to the Faculty of Graduate Studies. The recommendation should be made within four (4) terms (including Summer term) from the start of the Master's program. Fees paid, coursework completed and time spent in the Master's program will normally be credited towards the Ph.D. program. Students must complete at least 24 credit hours of coursework, unless the individual department/unit's approved supplementary regulations specify otherwise. A minimum of 18 credit hours at the 7000-level or higher is required. Any further coursework beyond the minimum 18 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.</p> <p>The request to transfer from a Master's to the Ph.D. program must be submitted to the Faculty of Graduate Studies at least one (1) month prior to the term for which the student intends to commence the Ph.D. program. The applicant must indicate a request for transfer on the online Application for Admission.</p> <p>The student will be admitted to a 3-year Ph.D. program and will pay a total of three years of program fees, including program fees paid in the Master's at the time of transfer. Students are cautioned that such transfers may impact on the duration of The University of Manitoba Graduate Fellowship.</p> <p>Students who have previously completed a recognized Master's degree and are initially admitted and registered in a Master's program may transfer to the Ph.D. program within the same department/unit on the recommendation of the student's advisor/co-advisor and Head of the department/unit. Where a student holds a Master's degree that would be sufficient for admission to the Ph.D. program, students must complete at least 12 credit hours of coursework, unless the individual department/unit's approved supplementary regulations specify otherwise. The student will be admitted to a 2-year Ph.D. program and will pay a total of two years of program fees, including program fees paid in the Master's at the time of transfer.</p>	<ol style="list-style-type: none"> <li>1. The student must have a GPA of at least 3.5 while enrolled in the M.Sc. program (minimum 6 credit hours) and also received a satisfactory rating in their most recent progress report.</li> <li>2. The student must have the consent of the supervisor to transfer to the Ph.D. program:</li> <li>3. <b>Written Component:</b> The student will submit a written report to their advisory committee and the GSC. The written report (<del>maximum of 159-40</del> pages, double spaced, not including figures, tables, and references) will describe their progress in their research project and will include background information, rationale, hypothesis, methods, results, discussion, and future directions. The report must be submitted at least two (2) weeks before the scheduled date of the "transfer" seminar (see below).</li> <li>4. <b>Oral Component:</b> The student must present their report (see above) at a seminar (no more than 30 minutes in duration) open to all department members. The presentation will be followed by a question period from the examining committee (no more than one hour in duration). The examining committee will consist of the advisory committee and one member of GSC (to be determined by the Chair of the GSC in consultation with the Department Head). Following the question period the committee will deliberate as to whether to endorse a transfer to the Ph.D. program. The Examining Committee can endorse a transfer only if there is not more than one dissenting voice. The Chair of the Examining Committee will be the Chair of the GSC, or their designate. The candidate must ensure that all examiners are able to attend the oral examination and must notify the <a href="#">chair of the departmental Graduate Studies Committee</a> at least four (4) weeks in advance of the scheduled date of their seminar.</li> <li>5. The student is required to complete a total of 12 credit hours (M.Sc. 6 credit hours + Ph.D. 6 credit hours).</li> </ol>
<p><b>5.1.4 Provisional Admission to the Ph.D.</b></p> <p>Students nearing the completion of the Master's degree may be accepted provisionally to the Ph.D. program for a 12 month period (commencing with the first registration in the Ph.D. program). Further registration in the Ph.D. program is contingent upon completion of all requirements of the Master's degree within the 12 months. Students must maintain continuous registration in their Master's program until</p>	

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>its completion. Students will require assistance from the department/unit and the Faculty of Graduate Studies to complete dual registration on the "Concurrent Curriculum Permission" form (<a href="http://intranet.umanitoba.ca/student/records/2323.html">http://intranet.umanitoba.ca/student/records/2323.html</a>) in the Master's and Ph.D. program simultaneously.</p>	
<p><b>5.1.5 Students with Disabilities</b></p> <p>See Accommodation Policy for Students with Disabilities:</p> <p><a href="http://umanitoba.ca/admin/governance/governing_documents/students/281.html">http://umanitoba.ca/admin/governance/governing_documents/students/281.html</a></p>	
<p><b>5.2 Student's Advisor, Co-advisor and Advisory Committee</b></p> <p><b>5.2.1 Student's Advisor</b></p> <p>Every Ph.D. student must have an advisor throughout their program, appointed by the Head of the department/unit. The advisor is responsible for supervising the student's graduate program. The advisor is the student's first point of contact at the University of Manitoba, and therefore should be familiar with the general policies and regulations of the Faculty of Graduate Studies as well as the specific supplementary regulations of their academic department/unit. In this capacity, the advisor assists the student in planning the graduate program, and ensures that the student is aware of all graduate program requirements, degree regulations, and general regulations of the academic department/unit, the Faculty of Graduate Studies, the university, and external funding agencies. The advisor provides counsel for all aspects of the graduate program, and stays informed of the student's scholarly activities and progress. The student's advisor also acts as a channel of communication to the student's advisory committee, the department/unit and the Faculty of Graduate Studies.</p> <p>The advisor must:</p> <ul style="list-style-type: none"> <li>• hold an appointment in the student's department/unit.</li> <li>• be a member of the Faculty of Graduate Studies*;</li> <li>• hold a Ph.D. or equivalent**;</li> <li>• be active in research; and</li> <li>• have expertise in a discipline related to the student's program.</li> </ul> <p>*(<a href="http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html">http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html</a>)</p> <p>**Equivalency will be approved by the Dean of the Faculty of Graduate Studies and determined on a case by case basis and assessed by the potential advisor's demonstrated research record and current research activities. Note that M.D., D.M.D., Pharm.D. and J.D. are undergraduate degrees and are not equivalent to a Ph.D.</p> <p>Usually the student and the advisor choose to work together by mutual agreement. In department/units where the choice of thesis topic advisor is postponed for some time after entry into the program, the Head of the department/unit or the selection committee shall appoint a faculty member to advise the student as to the rules and regulations and on a program and course requirements. This interim period must not exceed eighteen (18) months after entry into the program before a permanent advisor is chosen.</p>	<p><del>All Ph.D. students must have a faculty advisor prior to recommendation of acceptance to the Faculty of Graduate Studies.</del></p> <p><a href="#">All PhD program student advisors and co-advisors must hold appointment with the Department of HACS.</a></p> <p><a href="#">Prior to submitting an application to the Faculty of Graduate Studies, a prospective student must contact a HACS faculty member and confirm that the faculty member is willing to serve as their graduate program advisor.</a></p> <p><a href="#">The student must provide a letter of support from the proposed advisor which provides information regarding the amount &amp; duration of financial support available to the student.</a></p> <p><a href="#">Applications that do not include an advisor's letter of support will <del>automatically</del> be rejected by the Department's Graduate Studies Committee</a></p> <p><a href="#">Please also refer to 5.2.1: Admission Criteria for further information.</a></p>

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>All students should consult department/unit supplementary regulations for specific details regarding advisor/co-advisor requirements.</p>	
<p><b>5.2.4 Advisory Committee</b></p> <p>The Head of the department/unit is responsible for the establishment of an advisory committee for each Ph.D. student. Advisory committees are selected by the advisor/co-advisor in consultation with the student and should consist of individuals whose expertise is consistent with that necessary to provide additional advice and guidance to the student during their program. The advisory committee must consist of a minimum of three (3) members, all of whom must be members of the Faculty of Graduate Studies (<a href="http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html">http://umanitoba.ca/faculties/graduate_studies/governance/academic_membership.html</a>). Advisory committees may, in addition, include one (1) non-voting guest member who has expertise in a related discipline but is not a member of the Faculty of Graduate Studies.</p> <p>It is expected that advisory committee members will have a Ph.D. degree or equivalent. Equivalency will be determined by the Dean of the Faculty of Graduate Studies. Graduate students, Post-Doctoral Fellows, and Research Assistants or Associates may not serve on graduate student advisory committees. A student who also holds an appointment at the University of Manitoba at the rank of Assistant Professor or above cannot have an advisor or co-advisor with an appointment in the same department/unit. The composition of, and any changes to, the advisory committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>If two or more advisory committee members are in a personal relationship, the “Conflict of Interest Disclosure Form” (<a href="https://umanitoba.ca/admin/governance/governing_documents/community/962.html">https://umanitoba.ca/admin/governance/governing_documents/community/962.html</a>) must be completed and submitted to the Faculty of Graduate Studies. See The University of Manitoba’s Conflict of Interest policy: <a href="https://umanitoba.ca/admin/governance/governing_documents/community/248.html">https://umanitoba.ca/admin/governance/governing_documents/community/248.html</a>.</p> <p>The advisor/co-advisor is the Chair of the advisory committee.</p> <p>Advisory committee meetings must be held at least annually, and are not intended to take the place of meetings between the student and advisor/co-advisor which should occur with much greater frequency than the advisory committee meetings.</p>	<p>Within the first year in the program, an advisory committee must be selected. The advisory committee will consist of a minimum of 4 members of the Faculty of Graduate Studies (including the advisor).</p> <p><a href="#">At least one member of the advisory committee (in addition to the student advisor) must hold primary appointment within the department.</a></p>
<p><b>5.3 Program of Study</b></p> <p>As soon as possible, but no later than 24 months after a student has commenced their program, the student’s program of study should be registered with the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>) and should include:</p> <ul style="list-style-type: none"> <li>• information about the minimum or expected time for completion of the degree;</li> <li>• coursework to be taken along with course classification (“S”, “X”, “A” or “O”);</li> <li>• any foreign language requirement;</li> </ul>	

- the research area in which the thesis will be written.

The approval of the student's advisor/co-advisor and the Head of the department/unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student's advisor/co-advisor, the advisory committee, and the Head of the department/unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.

#### 5.4 Program Requirements

All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:

- Where admission to the Ph.D. is directly from a Master's degree, a minimum of 12 credit hours at the 7000-level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.\*
- Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.\*

\*Unless professional accreditation requirements and/or the department/unit's supplementary regulations indicate otherwise.

Required course work at the PhD level will consist of a minimum of 126 credit hours of approved course work at the 7000 level beyond the MSc.

Students are required to take:

- ~~IMED 7410 – Biomedical Trainee Skills (3 CH)~~
- ~~ANAT 7330 – Readings in Anatomy (3 CH)~~

Plus ~~two~~ of the following:

- ANAT 7460 – Human Histology: Basic Tissues (1.5 CH)
- ANAT 7462 – Human Histology: Systems I (1.5 CH)
- ANAT 7464 – Human Histology: Systems II (1.5 CH)
- ANAT 7466 – Human Histology: Systems III (1.5 CH)
- ANAT 7380 – Human Developmental Anatomy (Embryology) (3 CH)
- ANAT 7392 – Human Neuroanatomy (3 CH)
- ~~ANAT 7470 – Graduate Gross Anatomy (6 CH)~~
- ~~ANAT 7472 Graduate Gross Anatomy – Musculoskeletal (2 CH)~~
- ~~ANAT 7474 Graduate Gross Anatomy – Trunk Anatomy (Thorax, Abdomen, Pelvis) (CH 2)~~
- ~~ANAT 7476 Graduate Gross Anatomy – Head & Neck (CH 2)~~
- n Brain Imaging Methods (1.5 CH)
- ~~IMED 7092 – Cell Biology A Introductory (3-CH)~~
- ~~IMED 7094 – Cell Biology B Special Topics (3-CH)~~
- IMED 7112 – Fundamental Cellular Neurobiology (1.5 CH)
- IMED 7114 – Fundamental Neural Development and Plasticity (1.5 CH)
- ~~IMED 7116 – Fundamental Systems Neuroscience (1.5 CH)~~
- ~~IMED 7118 – Fundamental Neurobiology of Disease (1.5 CH)~~

	<ul style="list-style-type: none"> <li>• <a href="#">IMED 7180 – Molecular Approaches in Medical Research (3 CH)</a></li> <li>• <a href="#">IMED 7200 – Cancer Biology (3 CH)</a></li> <li>• <a href="#">IMED 7210 – Epigenetics in Development and Human Diseases (1.5 CH)</a></li> <li>• <a href="#">IMED 7242 – Nucleic Acids: Structure and Function in Normal Development and Diseases (1.5 CH)</a></li> <li>• <a href="#">IMED 7244 – Nucleic Acids: Manipulation in Biomedical Research (1.5 CH)</a></li> <li>• <a href="#">IMED 7290 – Developmental Biology (3 CH)</a></li> <li>• <a href="#">IMED 7300 – Microscopy, Optics, Imaging and Analysis in Health Research (3 CH)</a></li> <li>• <a href="#">IMED 7302 – Advanced Molecular Imaging (3 CH)</a></li> <li>• <a href="#">ANAT 7012 Advanced Level Human Brain Imaging Methods (1.5 CH)</a></li> <li>• <a href="#">ANAT 7320 Introduction to Scanning and Transmission Electron Microscopy (3.0 CH)</a></li> <li>• <a href="#">ANAT 7400 – Morphological Techniques (3 CH)</a></li> <li>• <a href="#">ANAT 7330 – Readings in Anatomy (3 CH)</a></li> </ul> <p>Mandatory attendance at seminars that are part of the Departmental Seminar Program is required. Failure to attend a minimum of 80% of the seminars over the course of an academic year will be taken into consideration at the time of the annual progress report.</p> <p>The course work required for an individual student will be specified in consultation with the student's faculty advisor, and will depend upon the student's background.</p>
<p><b>5.4.1 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.</p>	
<p><b>5.4.2 Advance Credit</b></p> <p>Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the request to the Faculty of Graduate Studies by completing the "Advance Credit - Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 5.4.4 Lapse of Credit of Courses)</li> </ul>	



The minimum time requirement for the program of study for a Ph.D. degree will normally be two (2) years of study beyond the level of the Master's degree, or three (3) years beyond the level of a Bachelor's degree.

**5.5.2 Maximum Time Limit**

A student's candidature shall lapse if they fail to complete the degree within six (6) years following initial registration in the Ph.D. program. For those students who transfer from the Master's to the Ph.D., years spent in the Master's program are counted as years in the Ph.D. program.

Ph.D. students who are declared as part-time will receive an additional four (4) months in time to complete their program for every two (2) years (24 months) they are declared as part time (see [section 1.4.1](#)) to a maximum of seven (7) years. Requests for extensions of time to complete the degree will be considered on an individual basis and must be submitted using the "Time Extension Request" form ([http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)) to the Dean of the Faculty of Graduate Studies **at least three (3), but no more than four (4),** months prior to expiration of the respective maximum time limit.

A student who has not completed the degree requirements within the time limit or within the time limit of any extension that has been granted (see also sections "Extension of Time to Complete Program of Study" and "Leave of Absence") will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".

**5.6 Academic Performance**

Student progress shall be reported **at least** annually (but no more than once every four (4) months) to the Faculty of Graduate Studies on the "Progress Report" form ([http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)).

Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the "Progress Report" form. Students who receive two (2) consecutive "in need of improvement" or one (1) "unsatisfactory" rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".

[A copy of the "Annual Progress Report" form must also be submitted to the Department of Human Anatomy and Cell Science at the same time it is submitted to the Faculty of Graduate Studies.](#)

[The departmental "Annual Progress Report" form must also be completed and submitted to the Department of Human Anatomy and Cell Science at the same time as the Progress Report form is submitted to the Faculty of Graduate Studies.](#)

**5.6.1 Performance in Coursework**

A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.

**5.6.2 Performance Not Related to Coursework**

Students may be required to withdraw from their Ph.D. program for reasons of unsatisfactory performance other than those related to failing grades. These include, but are not restricted to, unsatisfactory attendance and lack of progress in research

Attendance at departmental seminars is mandatory. Departmental seminars include seminars that are part of the Departmental Seminar Program as well as Ph.D. proposal seminars, candidacy exams, and thesis defences. Failure to attend a minimum of 80% of the seminars over the

Garry or Bannatyne campus, or the St. Boniface Hospital Albrechtsen Research Centre normally during regular business hours.

This examination, which must be independent from the thesis proposal, may be oral, written, or both and may cover subjects relevant to the general area of the student's research. The structure of the exam must be made known to the student well in advance of the exam. In the case where there is a required oral component, the student must be physically present.

A "pass" decision of the examiners must be unanimous. Students must be provided with feedback on their performance and access to the reasons for the pass/fail.

The Dean of the Faculty of Graduate Studies must be informed whether the candidate has "passed" or "failed" the candidacy examination on the "Report on Ph.D. Candidacy Examination" form ([http://umanitoba.ca/faculties/graduate\\_studies/forms/index.html](http://umanitoba.ca/faculties/graduate_studies/forms/index.html)).

Any student who fails the candidacy examination twice will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".

On successful completion of this examination, the student will be considered a candidate for the Ph.D. degree.

**5.9 Thesis Proposal**

3. **Written Component:** This will consist of a review of their research area (~~a maximum of 20-19~~ pages double spaced not including figures, tables, and references) that gives background to their thesis. The content ~~of this~~ will be similar to the ~~introduction-review of literature section~~ of a Ph.D. thesis. The written component must be submitted to the examining committee and the GSC chair a minimum of four (4) weeks in advance of the oral presentation component. The written component must be approved unanimously (i.e.: passed) by the examining committee before the process can proceed to the next step. If the written component is not approved, the examining committee will provide feedback to the candidate outlining the deficiencies and feedback for the student to improve the document.

4. **Presentation and Oral Examination Components:** The presentation (no more than 30 minutes in duration) will be open to all department members. Following the presentation, the oral examination period (no more than 90 minutes in duration) will take place during which time the examiners will ask questions related to the candidate's area of research. The candidate must ensure that all examiners are able to attend the presentation and oral examination and that the GSC chair department is informed of the date and time of the exam four (4) weeks in advance. The oral examination component of the examination is only open to members of the examining committee.

5. Following the oral examination period the committee will deliberate and evaluate the candidate's performance on both the presentation and oral examination. The examining committee can pass the candidate only if there is not more than one dissenting voice. Candidates must pass both of these components in order to pass the candidacy exam. If the candidate does not pass, the presentation and/or oral examination will be re-scheduled within 2 months. The second presentation and/or oral examination will be open only to the examining committee and the chair.

5. The advisor must ensure that all Advisory Committee members (or their designates) are able to attend the examination. In the event that this does not occur, the examination must be postponed.

The thesis proposal should be completed within two (2) years of entering the program. It consists of a written component and an oral component. The

Some departments/units have specific procedures in place for approval of thesis proposals and students are advised to refer to the specific department/unit supplementary regulations. If departments/units require thesis proposal approval, this exercise must be independent from the candidacy examination. Regardless, the proposed thesis research must be approved by the advisory committee and, if necessary, by the Human Research Ethics Board or Animal Care Committee before the work has begun on the thesis research or project.

proposal will be evaluated by the student's advisory committee and one member of the GSC (to be determined by the Chair of the GSC in consultation with the Department Head).

1. **Written Component:** The research proposal must be prepared and written by the student (with the assistance of their faculty advisor). The proposal (a maximum of 10 9-10 pages, double spaced, not including figures, tables, and references) will include an introduction/background, hypothesis, rationale, an outline of specific objectives, methods, and the anticipated results. The emphasis of the proposal will be the experimental approach to be employed. The proposal report must be submitted to all members of the student's advisory committee and the GSC chairperson at least two (2) weeks before the scheduled date of the proposal seminar.

2. **Oral Component:** The student must present their proposal (see above) at a seminar (no more than 30 minutes in duration) open to all department members. The presentation will be followed by questions from the examining committee (no more than one hour in duration). The examining committee will consist of the advisory committee and one member of the GSC. The session will be chaired by the Chair of the GSC, or their designate. The candidate must ensure that all examiners are able to attend the presentation and that the department GSC chairperson is informed of the date and time of the of the thesis proposal oral presentation a minimum of seminar four (4) weeks in advance.

The proposal must receive the approval of all members of the advisory committee and the selected member of the GSC. Students may be required to incorporate feedback from the committee into a revised written version of the proposal.

**5.10 Thesis**

An essential feature of Ph.D. study is the candidate's demonstration of competence to complete a research project and present the findings. The thesis must constitute a distinct contribution to knowledge in the major field of study, and the research must be of sufficient merit to be, in the judgement of the examiners, acceptable for publication. The thesis must be written in English unless approved by the department/unit and Faculty of Graduate Studies.

The thesis must be written according to a standard style acknowledged within the candidate's particular field of study and recommended by the department/unit, be lucid and well-written, and be reasonably free from errors of style and grammar (including typographical errors).

In addition to the copies of the thesis required by the Faculty of Graduate Studies, the Department of Human Anatomy and Cell Science requires an electronic bound copy of the final version of all Ph.D. theses (submitted to the departmental office).

Two failures at any combination of written review and/or oral examination stage will normally result in the candidate being withdrawn from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".

### Reports

The Dean of the Faculty of Graduate Studies shall provide electronic copies of all reports to each of the advisor/co-advisor, examiners, and Head of the department/unit. In the event of a failure, hard copies will be sent to each of the advisor/co-advisor, examiners, and Head of the department/unit instead of an electronic copy.

## 5.12 Oral Examination

### 5.12.1 Scheduling

Departments/Units cannot proceed with scheduling the oral examination prior to receiving the approved internal and external examiners report from the Faculty of Graduate Studies. The oral examination must be held at either The University of Manitoba Fort Garry or Bannatyne campus or the St. Boniface Hospital Albrechtsen Research Centre normally during regular business hours. It is the responsibility of the department/unit to ensure that all room booking arrangements are made and appropriate facilities meet minimum standards expected for a Ph.D. defence. In addition, the candidate must submit, in electronic format biographical information and an abstract of the thesis to the Faculty of Graduate Studies at least two (2) weeks in advance of the date of the oral examination.

### 5.12.2 Attendance

The Dean of the Faculty of Graduate Studies or designate shall act as Chair of the examination committee.

The attendance of the external examiner in person at the candidate's oral examination is encouraged. If the external examiner will not be present in person, then their participation electronically is expected. If the external examiner cannot participate electronically, they will be asked to provide questions in advance. These questions will be read to the candidate at the defence by the advisor.

All internal members of the examining committee are required to be present at the defence, unless exceptional circumstances prevent this. Under such circumstances, and with the prior approval of the Dean of the Faculty of Graduate Studies, one (1) internal member may participate electronically. Consequently, no more than one (1) internal member and the external examiner may participate electronically.

The candidate and advisor/co-advisor must be present in person for the examination.

Normally, the oral examination shall be open to all members of The University of Manitoba community and the general public. In exceptional cases the final oral examination may be closed; for example, when the results of the thesis research must be kept confidential for a period of time. In such cases, the examination committee and Head of the department/unit shall request prior approval in writing from the Dean of the Faculty of Graduate Studies. If approved, the final oral examination shall be

[The department requires the attendance of an external examiner at all PhD candidate's oral examination.](#)

[Any costs related to in-person attendance of the external examiner at the oral examination are the responsibility of the student's advisor. If the external examiner cannot be present in person, then their/his/her participation can be done electronically.](#)

[If the external reviewer cannot attend \(either in-person or electronically\), then an alternate date and time must be selected for the oral examination. It is not acceptable for an external examiner to simply submit questions in advance.](#)

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Mathematics.

### **Observations**

1. The **Dept. of Mathematics** proposes Ph.D. supplementary regulation changes specific to their Candidacy Exams. The department will return to offering examinations only in September and April, removing the January option. The second change is to reduce the number of required examinations from two to one, and reduce the number of possible examination areas from seven to two. Under the amended regulations, students will be required to pass only one written exam in either Algebra or Analysis.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

#### **Dept. of Mathematics**

Respectfully submitted,

Dr. Kelley J. Main, Chair  
Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



**University  
of Manitoba**

Faculty of Science  
Department of Mathematics

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To whom it may concern:

I am writing in my capacity as Associate Head (Graduate Studies) in the Department of Mathematics to explain and justify the proposed changes to the Department of Mathematics Supplemental Regulations. Upon review of our candidacy exam structure and procedures, a special committee consisting of the Graduate Studies Committee and departmental representatives from various research disciplines was convened to recommend amendments to the Supplemental Regulations as below. These regulations were approved by Department Council on September 7, 2021.

Four paragraphs of text in Box 5.8 have been rewritten. To explain these changes, let me summarize our current candidacy exam structure.

Currently, students are required to pass two written comprehensive exams, with students choosing a single subject area for each exam from a list of seven possible areas. For each of the two exams, a student gets two attempts. At least one of the two exams has to cover the area of Algebra or Analysis. The Department of Mathematics currently offers written comprehensive examinations three times per year: In January, April and September. The January examination was introduced some years ago with the hope that it would shorten the time to completion of the candidacy examination requirements.

First, under the new amended regulations, the Department will return to offering examinations only in September and April. The reasoning from the special committee that recommended this change was as follows, with statistics based on the outcomes of all comprehensive examinations written since 2014:<sup>1</sup>

On average, students take 7.5 months to attempt their first examination, and 7–8 months to attempt their second. Therefore, adding the January comprehensive exam session did not have the intended effect of shortening the time to completion of the comprehensive examinations by allowing for more frequent attempts. Moreover, only 10 of the 64 examinations offered took place in January, of those 10, 4 students passed and 6 failed. Only two of the passing students were theoretically able to reduce their time to completion of the comprehensive exams by four months (assuming they would've alternatively taken and passed the same exam in April).

It was further noted by the committee that of the three sittings (January, April, September), students consistently performed poorly on the January examinations relative to April and

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<sup>1</sup>Indented quotes are from my notes taken in the special committee, used to explain the committee recommendations to Department Council

September, perhaps indicating that it is not a good time of year to be offering these examinations.

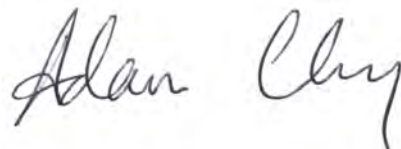
The second change is to reduce the number of required examinations from two to one, and reduce the number of possible examination areas from seven to two. Under the amended regulations, students will be required to pass only one written exam, in either Algebra or Analysis. The committee first explained that this change maintains the current standards of our PhD program as follows:

Of the 11 out of 28 students who have left the program between 2014 and 2021 as a result of comprehensive exam outcomes, 10 students were removed (or left) as a result of failing either the algebra or analysis exam. The single exception was a student passed the algebra exam, but then failed the topology exam twice— moreover, this student was not a topology student. Put another way, no student has ever twice failed a comprehensive examination in their area of specialization outside of analysis or algebra.

The committee also noted that this change should improve student outcomes:

With only one comprehensive exam and an expectation that the student write every attempt, completing the comprehensive examination requirement will happen within one year for every student (unless a student switches examination areas). This will allow students to complete this degree requirement and move on to the research sooner in their PhD program. Moreover, we have regular course offerings in both analysis and algebra at nearly every level, so remediation after a failed attempt will be easier for students.

Sincerely,

A handwritten signature in black ink that reads "Adam Clay". The signature is written in a cursive style with a large, sweeping initial 'A'.

Adam Clay, Associate Professor  
Associate Head (Graduate Studies)

FGS Academic Guide Regulation 2021/22	Supplementary Regulation
<p>A student who has not completed the degree requirements within the time limit or within the time limit of any extension that has been granted (please refer to "<u>Extension of Time to Complete Program of Study</u>" and "<u>Leaves of Absence</u>") will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".</p>	
<p><b>5.6 Academic Performance</b></p> <p>Student progress shall be reported <b>at least</b> annually (but no more than once every four (4) months) to the Faculty of Graduate Studies on the "<u>Progress Report</u>" form.</p> <p>Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the Graduate Chair and/or department/unit Head to the Dean of the Faculty of Graduate Studies on the "Progress Report" form. Students who receive two (2) consecutive "in need of improvement" or one (1) "unsatisfactory" rating will normally be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".</p>	<p>A progress report must be submitted to the department at least 2 weeks prior to the FGS deadline.</p>
<p><b>5.6.1 Performance in Coursework</b></p> <p>A minimum degree grade point average (DGPA) of 3.0 with no grade below C+ must be maintained to continue in the Faculty of Graduate Studies. Departments/Units may specify, in their supplementary regulations, standards that are higher than those of the Faculty of Graduate Studies. Students who fail to maintain the specified grades will be required to withdraw unless a department/unit recommends remedial action. Any such action must be approved by the Dean of the Faculty of Graduate Studies.</p>	
<p><b>5.6.2 Performance Not Related to Coursework</b></p> <p>Students may be required to withdraw from their Ph.D. program for reasons of unsatisfactory performance other than those related to failing grades. These include, but are not restricted to, unsatisfactory attendance and lack of progress in research and/or thesis preparation. Unsatisfactory performance must be reported to the Faculty of Graduate Studies on the "<u>Progress Report</u>" form. Students who fail to maintain satisfactory performance may be required to withdraw on the recommendation of the department/unit Head to the Dean of the Faculty of Graduate Studies.</p> <p>Students are normally expected to complete remedial action by the end of the subsequent term.</p>	<p>In the event that a student's progress in research is judged by the advisor and/or the advisory committee to be unsatisfactory, this shall be reported to the FGS on the "Progress Report" form. The GSC shall recommend to the Department Head and FGS an appropriate course of action.</p>
<p><b>5.7 Academic Requirement for Graduation</b></p> <p>All students must:</p> <ul style="list-style-type: none"> <li>• maintain a minimum degree grade point average (DGPA) of 3.0 with no grade below C+;</li> <li>• complete <u>GRAD 7500</u></li> <li>• complete <u>GRAD 7300</u></li> <li>• meet the minimum and not exceed the maximum course requirements; and</li> <li>• meet the minimum and not exceed the maximum time requirements (in terms of time in program and lapse or expiration of credit of courses).</li> </ul> <p>Individual department/units may have additional specific requirements for graduation and students should consult department/unit supplementary regulations for these specific requirements. A cumulative degree grade point average of 3.0 or greater is required in those courses that constitute the program of study for graduation in the Faculty of Graduate Studies.</p>	
<p><b>5.8 Candidacy Examination</b></p> <p>The candidacy examination is an absolute requirement of the Faculty of Graduate Studies and, as such, cannot be waived under any circumstances. However, the format and content of the candidacy exam varies from unit to unit. The purpose of the</p>	<p>Students in the Ph.D. program in Mathematics are normally expected to pass their candidacy examination (see below) within 13 months after their initial registration in the program. Students</p>



candidacy exam in doctoral programs is to determine the student's competence in the discipline with respect to understanding and absorbing a broad spectrum of material, and then researching, identifying, analyzing, synthesizing, and communicating ideas about that material in depth.

At the time specified by the advisory committee, normally within the first year after the completion of the Ph.D. program coursework, but in no case later than one year prior to expected graduation, the student must successfully complete the formal candidacy examination.

The examination is conducted according to a procedure established by the department/unit which is approved and documented in departmental/unit supplementary regulations. The department/unit supplementary regulations state the format and composition of the examination committee for the candidacy examination. The candidacy examination must be held at either The University of Manitoba Fort Garry or Bannatyne campus, or the St. Boniface Hospital Albrechtsen Research Centre normally during regular business hours.

This examination, which must be independent from the thesis proposal, may be oral, written, or both and may cover subjects relevant to the general area of the student's research. The structure of the exam must be made known to the student well in advance of the exam. In the case where there is a required oral component, the student must be physically present.

A "pass" decision of the examiners must be unanimous. Students must be provided with feedback on their performance and access to the reasons for the pass/fail.

The Dean of the Faculty of Graduate Studies must be informed whether the candidate has "passed" or "failed" the candidacy examination on the "[Report on Ph.D. Candidacy Examination](#)" form.

Any student who fails the candidacy examination twice will be required to withdraw from the Faculty of Graduate Studies and the notation on the student record will be "Required to withdraw".

On successful completion of this examination, the student will be considered a candidate for the Ph.D. degree.

who fail to pass their candidacy examination within 18 months after their initial registration in the program may be required to withdraw from the program.

In exceptional circumstances, the GSC may grant a student, on an individual basis, an extension of up to seven (7) months for the completion of the candidacy examination. A request for such an extension shall be accompanied by a letter providing a reasonable explanation for the delay, and the student's advisory committee's recommendation. The Department will recommend to the FGS that any student who does not complete the candidacy examination within the extension period granted be withdrawn from their program.

[The candidacy examination in the Ph.D. program in Mathematics consists of a single written comprehensive examination chosen from the following areas:](#)

[Algebra;](#)  
[Analysis.](#)

[Regulations governing these examinations and the latest syllabi on which these examinations are based are described in the document "Ph.D. Comprehensive Examinations REGULATIONS and SYLLABI" approved by the Department Council, and are available from the Associate Head \(Graduate Studies\).](#)

[The Graduate Studies Committee arranges comprehensive examinations two times a year, normally between the 15th and 25th days of April and September. The student must register to write a comprehensive examination by sending a request to the Associate Head \(Graduate Studies\) by February 1 if the examination is given in April and by July 1 if the examination is given in September. In some exceptional cases, the Graduate Studies Committee may allow a student to register after these deadlines upon receiving a formal letter of request from the student detailing their reasons for the late registration. The choice of area and specialized topics must be approved by the student's advisor for each exam.](#)

[The standard of pass shall be given on the question sheet of each examination. A student who fails a comprehensive examination in any area twice shall be required to withdraw from the Ph.D. program in Mathematics. The candidacy examination in the Ph.D. program in Mathematics consists of two separate written comprehensive examinations chosen from the following areas:](#)

	<ul style="list-style-type: none"> <li>• Algebra;</li> <li>• Analysis;</li> <li>• Combinatorics;</li> <li>• Computational Mathematics;</li> <li>• Differential Equations;</li> <li>• Topology.</li> </ul> <p><del>Regulations governing these examinations and the latest syllabi on which these examinations are based are described in the document "Ph.D. Comprehensive Examinations REGULATIONS and SYLLABI" approved by the Department Council, and are available from the Associate Head (Graduate Studies). At least one of the examinations must be in Algebra or Analysis.</del></p> <p><del>The GSC arranges comprehensive examinations three times a year, normally in January, April and September. The student must register to write a comprehensive examination by sending a request to the Associate Head (Graduate Studies) by February 1 if the examination is written in April, by July 1 if the examination is written in September, and by November 1 if the examination is written in January of the following year. The choice of areas must be approved by the student's advisor.</del></p> <p><del>A maximum of two attempts on each comprehensive examination is allowed. A student who fails a comprehensive examination in any area shall be required to withdraw from the Ph.D. program in Mathematics.</del></p>
<p><b>5.9 Thesis Proposal</b></p> <p>Some departments/units have specific procedures in place for approval of thesis proposals and students are advised to refer to the specific department/unit supplementary regulations. If departments/units require thesis proposal approval, this exercise must be independent from the candidacy examination. Regardless, the proposed thesis research must be approved by the advisory committee and, if necessary, by the Human Research Ethics Board or Animal Care Committee before the work has begun on the thesis research or project.</p>	<p>The Ph.D. thesis proposal must include a literature review, description of the proposed work, and a schedule for completion. The proposal should normally be completed within 6 months following the completion of the candidacy examination (see section 5.8) and must be approved by the student's advisor and the advisory committee. The proposal will be submitted to the Associate Head (Graduate Studies) and kept on file in the departmental office.</p>
<p><b>5.10 Thesis</b></p> <p>An essential feature of Ph.D. study is the candidate's demonstration of competence to complete a research project and present the findings. The thesis must constitute a distinct contribution to knowledge in the major field of study, and the research must be of sufficient merit to be, in the judgement of the examiners, acceptable for publication. The thesis must be written in English unless otherwise approved by the department/unit and Faculty of Graduate Studies.</p> <p>The thesis must be written according to a standard style acknowledged within the candidate's particular field of study and recommended by the department/unit, be lucid and well-written, and be reasonably free from errors of style and grammar (including typographical errors).</p>	<p>Published papers within the doctoral theses are permitted provided they conform to FGS regulations.</p> <p>The full text and graphics of the final manuscript of the published papers should be reformatted in the style of the thesis and included as separate chapters so that the thesis appears as a coherent document.</p>

## **Report of the Faculty Council of Graduate Studies on Course, Curriculum and Regulation Changes**

### **Preamble**

1. The Faculty of Graduate Studies (FGS) has responsibility for all matters relating to the submission of graduate course, curriculum, program and regulation changes. Recommendations for such are submitted by the Faculty Council of Graduate Studies for the approval of Senate.
2. The Faculty Council of Graduate Studies met on the above date to consider a proposal from the Dept. of Immunology.

### **Observations**

1. The **Dept. of Immunology** proposes M.Sc. and Ph.D. supplementary regulation changes. The change to the M.Sc. program prerequisite is to avoid redundancy and overlap in some of the current courses and provide in-depth understanding of the immunology field by subscribing to more courses; including the two 3 credit hour courses recently modified and approved by Senate on April 7<sup>th</sup> (i.e., IMMU 7090 Selected Topics in Immunology and IMMU 7100 Advanced Topics in Immunology). As such, total credit hours in the M.Sc. remains 9 CH, but IMMU 7090 and IMMU 7100 are new mandatory courses.

The department is also proposing a 3 credit hour increase in the Ph.D. program. This increase is in response to the overwhelming expansion of immunological knowledge in the last decade. This increase will expose the department's doctoral students to more information and knowledge that will help them succeed in their specific projects, and will be in line with the department's mandate to train students better equipped to meet the challenges of the ever-changing field in the future.

### **Recommendations**

**Faculty Council of Graduate Studies recommends THAT the program changes from the unit listed below be approved by Senate:**

#### **Dept. of Immunology**

Respectfully submitted,

Dr. Kelley J. Main, Chair

Faculty Council of Graduate Studies

/ak

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

FGS Academic Guide Regulation 2020/21	Supplementary Regulation
<p>In general, students must complete one of the programs of study described below for the Master's degree. However, the program of study is determined by the department/unit and may follow the department/unit's supplementary regulations. Any single course cannot be used for credit toward more than one program.</p>	
<p><b>4.4.1 Thesis/Practicum Route</b></p> <p>A minimum of twelve (12) credit hours of coursework, unless otherwise stated in the department/unit's supplementary regulations, plus a thesis or practicum is required. The minimum must include at least six (6) credit hours at the 7000-level or above, with the balance of the coursework at the 3000-level or above. A maximum of twenty-four (24) credit hours of coursework is allowed unless the department/unit's supplementary regulations indicate otherwise. The student must complete the thesis/practicum at The University of Manitoba.</p>	<p>The minimum course load consists of 9 credit hours, which includes the mandatory core course <del>IMMU 7020</del><u>IMMU 7090 and 7100</u>.</p>
<p><b>4.4.2 Course-based or Comprehensive Examination Route</b></p> <p>A minimum of twenty-four (24) credit hours of coursework and comprehensive examination(s) is required. The minimum must include at least eighteen (18) credit hours at the 7000-level or above with the balance of the coursework at the 3000-level or above. A maximum of forty-eight (48) credit hours of coursework is allowed unless a department/unit's supplementary regulations indicate otherwise. A comprehensive examination is required for some course-based programs.</p>	<p>Not applicable. Immunology does not offer a comprehensive examination route. Thesis route only.</p>
<p><b>4.4.3 Accredited Professional Route</b></p> <p>The credit hours and course requirements shall reflect the requirements of the department/unit's external accrediting body. Students should check department/unit supplementary regulations regarding this requirement.</p>	
<p><b>4.4.4 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Master's degree. Students should check department/unit supplementary regulations regarding this requirement.</p>	<p>Not applicable.</p>
<p><b>4.4.5 Advanced Credit</b></p> <p>Advance credit for courses completed prior to admission to a Master's program will be considered on a case-by-case basis. The student's department/unit must make a request to the Faculty of Graduate Studies by completing the "Recommendation for Advance Credit-Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 4.7.2 Lapse of Credit of Courses).</li> <li>• No more than 50% of the required coursework for the program can be achieved using advance credit.</li> </ul>	

<p><a href="#">ml</a>). Advisory committees may, in addition, include one (1) non-voting guest member who has expertise in a related discipline but is not a member of the Faculty of Graduate Studies.</p> <p>It is expected that advisory committee members will have a Ph.D. degree or equivalent. Equivalency will be determined by the Dean of the Faculty of Graduate Studies. Graduate students, Post-Doctoral Fellows, and Research Assistants or Associates may not serve on graduate student advisory committees. A student who also holds an appointment at the University of Manitoba at the rank of Assistant Professor or above cannot have an advisor or co-advisor with an appointment in the same department/unit. The composition of, and any changes to, the advisory committee, including the advisor/co-advisor, must be approved by the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <p>If two or more advisory committee members are in a personal relationship, the “Conflict of Interest Disclosure Form” (<a href="https://umanitoba.ca/admin/governance/governing_documents/community/962.html">https://umanitoba.ca/admin/governance/governing_documents/community/962.html</a>) must be completed and submitted to the Faculty of Graduate Studies. See The University of Manitoba’s Conflict of Interest policy: <a href="https://umanitoba.ca/admin/governance/governing_documents/community/248.html">https://umanitoba.ca/admin/governance/governing_documents/community/248.html</a>.</p> <p>The advisor/co-advisor is the Chair of the advisory committee.</p> <p>Advisory committee meetings must be held at least annually, and are not intended to take the place of meetings between the student and advisor/co-advisor which should occur with much greater frequency than the advisory committee meetings.</p>	<p>summary of progress must be submitted one week in advance of the meeting. Please refer to the department website for guidelines on preparing the summary of progress.</p> <p>The Department Head will not sign “Progress Report” forms for submission to the Faculty of Graduate Studies unless the summary of progress is attached to it.</p>
<p><b>5.3 Program of Study</b></p> <p>As soon as possible, but no later than 24 months after a student has commenced their program, the student’s program of study should be registered with the Faculty of Graduate Studies on the “Program of Study and Appointment of Advisory Committee” form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>) and should include:</p> <ul style="list-style-type: none"> <li>• information about the minimum or expected time for completion of the degree;</li> <li>• coursework to be taken along with course classification (“S”, “X”, “A” or “O”);</li> <li>• any foreign language requirement;</li> <li>• the research area in which the thesis will be written.</li> </ul> <p>The approval of the student’s advisor/co-advisor and the Head of the department/unit are sufficient for registration. The program of study, including withdrawal from individual courses and any subsequent changes, must be approved by the student’s advisor/co-advisor, the advisory committee, and the Head of the department/unit. Withdrawal from courses or changes of course category without such approval may result in the student being required to withdraw from the Faculty of Graduate Studies.</p>	
<p><b>5.4 Program Requirements</b></p>	<p><b>Minimum Course Requirements</b></p> <p>For students having completed their Master’s program in the Department, or an equivalent M.Sc. degree in Immunology from another institution, or</p>

<p>All students must complete one of the following programs of study for the Ph.D. degree, unless otherwise specified in the approved department/unit supplementary regulations:</p> <ul style="list-style-type: none"> <li>• Where admission to the Ph.D. is directly from a Master's degree, a minimum of 12 credit hours at the 7000- level or higher plus a thesis is required. Any further coursework beyond the minimum 12 credit hours at the 7000-level must be at the 3000-level or above. A maximum of 24 credit hours of coursework is allowed toward the Ph.D. program.*</li> <li>• Where admission to the Ph.D. is directly from an Honours Bachelor degree or equivalent, a minimum of 24 credit hours plus a thesis is required. The coursework must include a minimum of 18 credit hours at the 7000-level or higher with the balance of the coursework at the 3000-level or higher. A maximum of 48 credit hours of coursework is allowed toward the Ph.D. program.*</li> </ul> <p>*Unless professional accreditation requirements and/or the department/unit's supplementary regulations indicate otherwise.</p>	<p>students transferring from the Immunology Master's to the Ph.D. program via the non-thesis option, the minimum course load will consist of <del>69</del> additional credit hours at the 7000 level, which must include at least <del>36</del> credit hours selected from among courses offered by the Department.</p> <p><del>All students entering the program from other Departments or Universities must enroll in IMMU 7020 in their first year.</del> Students entering the program with an M.Sc. degree who do not have an adequate background in immunology will be required to take a course load of at least <del>4215</del> credit hours at the 7000 level. At least <del>912</del> of the credit hours are to be chosen from courses offered by the Department and must include <del>IMMU 7020, 7090 and IMMU 7100.</del></p> <p>Students who enter the Ph.D. Program directly from an Honours Bachelor Degree or equivalent are required to take 18 credit hours of courses at the 7000 level. At least <del>912</del> of the credit hours are to be chosen from courses offered by the Department and must include <del>IMMU 7020, 7090 and IMMU 7100.</del></p> <p>It should be noted that these course requirements represent minima, and higher requirements may be set by the Department or student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student</p>
<p><b>5.4.1 Language Requirements</b></p> <p>Some department/units specify a language requirement for the Ph.D. degree. Students are advised to check department/unit supplementary regulations regarding this requirement.</p>	<p>Not applicable.</p>
<p><b>5.4.2 Advance Credit</b></p> <p>Advance credit for courses completed prior to admission to a Ph.D. program will be considered on a case-by-case basis. The student's department/unit makes the request to the Faculty of Graduate Studies by completing the "Advance Credit - Transfer of Courses" form (<a href="http://umanitoba.ca/faculties/graduate_studies/forms/index.html">http://umanitoba.ca/faculties/graduate_studies/forms/index.html</a>).</p> <ul style="list-style-type: none"> <li>• Application for advance credit must be made within the first year of the program (see section 5.4.4 Lapse of Credit of Courses)</li> <li>• No more than 50% of the required coursework for the program can be achieved using advance credit.</li> <li>• A course may not be used for credit toward more than one degree, diploma or certificate.</li> <li>• The student must register at the University of Manitoba for at least two consecutive terms and must also complete the thesis and candidacy examination at The University of Manitoba. Regardless of the extent of</li> </ul>	

## **Report of the Senate Committee on Curriculum and Course Changes RE: Undergraduate Course Changes Beyond Nine Credit Hours, Faculty of Law**

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### **Preamble:**

1. The [terms of reference](#) for the Senate Committee on Curriculum and Course Changes (SCCCC) are available on the University Governance website. The SCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. At its meeting on October 21, 2021, and in an electronic poll conducted between November 1 – 3, 2021, the SCCC considered course and curriculum changes proposed by the Faculty of Law, including a proposal for a Concentration in Access to Justice in French.
3. The course changes were endorsed by the Faculty Council of the Faculty of Law at its meeting on August 12, 2021.
4. The Senate Planning and Priorities Committee (SPPC) also considered the proposal at its meeting on August 30, 2021.

### **Observations**

1. The Faculty of Law is proposing the deletion of one (1) course, the introduction of ten (10) courses, and the modification of four (4) courses, as outlined in the attachments to this Report, for a net increase of twenty-three (23) credit hours of course offerings. The ten new courses will be bilingual courses to be taught primarily in French. Four will be equivalent to existing courses, which requires that the existing courses be modified to prevent students from holding both the English and bilingual versions for credit.
2. The new courses are part of a proposal from the Faculty to modify the Juris Doctor degree, to formally introduce a Concentration in Access to Justice in French. In the last ten years, the Faculty has used sections of existing topics courses and practice-oriented courses to offer bilingual Law courses. The Concentration would give students in the J.D. program the option to complete 26 credit hours of bilingual LAW courses toward the 92 credit hours required for degree.
3. The Concentration will have two main objectives. One is to prepare graduates with the knowledge and skills to provide legal services in French, to meet a growing need for access to justice for French-speakers and French-language communities in Manitoba and in other Canadian jurisdictions. French-language communities in Manitoba, specifically, include Métis communities as well as a growing population of francophone newcomers. There is significant and increasing demand for French-language legal services, including in criminal, family, and immigration law. The second objective of the Concentration is to enhance the career prospects of J.D. graduates. Those who complete the Concentration will have access to a greater range of career opportunities that are available to bilingual lawyers, as described in Section 5 of the proposal.
4. The Concentration would be open to any student enrolled in the J.D. program with the French-language skills needed to successfully complete the courses. There would be no entrance requirements specific to the Concentration but students would need to

complete LAW 1542 Méthodes juridiques in the first year of their degree, to be eligible for the Concentration. Students who declared the Concentration would complete a language assessment, to be provided by the Faculty of Law in partnership with the Université de Saint-Boniface. The assessment would measure students' oral and written French language skills, so students could decide, in consultation with the responsible faculty members, whether to undertake the Concentration. Students might also receive recommended individualized learning opportunities to increase their French-language skills.

5. The Concentration, if approved, would allow J.D. students to remain in the province to complete a legal education in French. Only two institutions, the University of Ottawa and the Université de Moncton, offer French-language common law programs, and two institutions have bilingual course offerings, including the University of Ottawa's Canadian Program and McGill University's B.C.L./J.D. program.
6. Anticipated enrolment in the Concentration would be twelve to sixteen students annually. An average of eleven students registered in a bilingual section of LAW 1540 Legal Methods offered annually from the 2012-2013 to the 2017-2018 academic years. Students who will complete the program will include not only members of French-language communities but also individuals who attended French-immersion in secondary school.

### **Recommendation**

The Senate Committee on Curriculum and Course Changes recommends:

**THAT Senate approve course and curriculum changes proposed by the Faculty of Law, effective for the 2022 Fall Term.**

Respectfully submitted,  
Professor Greg Smith, Chair  
Senate Committee on Curriculum and Course Changes

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.



**Report of the Senate Planning and Priorities Committee RE: Undergraduate Course Changes Beyond Nine Credit Hours, Faculty of Law**

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**Preamble:**

1. The [terms of reference](#) for Senate Planning and Priorities Committee (SPPC) charge the committee to report to Senate on curriculum changes with significant resource implications, including additions to departmental curricula of more than nine credit hours.
2. At its meeting on August 30, 2021, the SPPC considered and endorsed a proposal from the Faculty of Law to introduce a Concentration in Access to Justice in French, in the Juris Doctor degree, including undergraduate course changes beyond nine (9) credit hours.
3. The Faculty Council of the Faculty of Law endorsed the proposed course and curriculum changes at its meeting on August 12, 2021. The proposals were also considered by the Senate Committee on Curriculum and Course Changes (SCCCC) at its meeting on October 21, 2021, and in an electronic poll conducted on November 1-3, 2021.

**Observations:**

1. The Faculty of Law is proposing to formally introduce a Concentration in Access to Justice in French. The Faculty has been offering several bilingual courses since 2011, either as topics course sections or bilingual sections of existing, practice-oriented courses. Students in the J.D. degree who elected to complete the Concentration would complete 26 credit hours of bilingual LAW courses, which would also contribute to the 92 credit hours of LAW courses required in the J.D. program.
2. Objectives for introducing the Concentration include, first, to respond to the access to justice needs of French-speakers and French-language communities in Manitoba and other majority English-speaking provinces and territories, by graduating students from the J.D. program who have the knowledge and skills required to provide legal services in French. Demand for French-language legal services in Manitoba, particularly in the areas of criminal, family, and immigration law, is significant and continues to grow, with increasing immigration from international francophone communities in recent years. Second, the Concentration would enhance career prospects of graduates who complete the program, by preparing them for a range of career opportunities available to bilingual lawyers.
3. As part of the proposal for the Concentration, the Faculty is proposing the deletion of one (1) course, the introduction of ten (10) courses, and the modification of four (4) courses, as set out in the attachments to the Report. The overall number of courses offered by the Faculty would increase by twenty-three (23) credit hours. The ten course introductions would be bilingual courses. Four would be equivalent to existing English-language LAW courses. Bilingual courses would be taught primarily in French but would sometimes make use of English-language course materials, including textbooks, to ensure equivalency with the corresponding English-language course offerings.
4. The Faculty would not require additional teaching resources to deliver the new courses required for the Concentration. Since 2011, the Faculty has received \$1.5 million from Justice Canada's Access to Justice in both Official Languages Fund, which it has used

to develop and offer four of the proposed courses (LAW 3372, LAW 3374, LAW 3376, LAW 3378) either as topics course sections or as bilingual sections of existing, practice-oriented courses. Four full-time faculty, who are bilingual, are prepared to teach the courses. The Faculty would allocate \$29,000 annually to hire practicing members of the francophone bar to teach as Sessional Instructors.

5. The Faculty would allocate: \$11,000 annually to cover the salary for a 0.25 – 0.30 FTE support staff position; \$10,000 for student travel to participate in French-language moots and to purchase the grammar software, Antidote; and \$20,000 for language evaluation and tutoring supports that would be provided by the Université de Saint-Boniface.
6. Establishment of the Concentration would not result in incremental enrolment or tuition revenue, as registration in the Concentration would be restricted to students admitted to the J.D. program.
7. The Faculty would not request any new/additional subvention from the University Fund to support the proposed Concentration and course introductions. The program costs approximately \$70,000 annually and would continue to be funded using revenue from tuition and external grants. At the meeting, the Faculty reported that the program had been self-sustaining over ten years. It anticipated external funds would continue to be available through Justice Canada, which had recently increased funding to support the federal government's official languages strategy. In the event that the Faculty was not able to secure external funding, annual revenue from its endowment funds could sustain the program for three to four years, during which time the Faculty could identify another funding source.
8. The Library indicated its collection can support the Concentration with the addition of books that the Library would purchase. The one-time cost (approximately \$500) would be covered by a reallocation of funds within the amounts already assigned to Law resources.
9. The committee strongly supports the introduction of the Concentration. In endorsing the course and curriculum changes, the SPPC recognizes the importance of the proposed Concentration to francophone individuals and communities in the province, including the francophone Métis community. It was concerned, however, that the Faculty had not taken the opportunity when developing the courses and the Concentration, to explicitly address, first, the University's strategic priority for creating pathways to Indigenous achievement, by including Indigenous content, and, second, the Truth and Reconciliation Commission's Call to Action 28.

The committee acknowledges and was encouraged by plans within the Faculty, to Indigenize its courses and curricula, increase Indigenous student enrolment, and hire additional Indigenous faculty members, as described by Dean Jochelson at the August 30<sup>th</sup> SPPC meeting. Given the various initiatives underway in the Faculty, the committee eagerly anticipates receiving information on the forthcoming changes.

The SPPC approved the following motion and proposed a two-year timeline to receive a response from the Faculty:

THAT the Faculty of Law provide the Senate Planning and Priorities Committee with a follow-up report on any further progress toward formally modifying courses and curricula in the Juris Doctor degree, through Senate, to include additional Indigenous content in its courses and curricula, including to respond to those things specifically identified in the Truth and Reconciliation Commission of Canada's Call to Action 28 and any specific national requirements for law school programs in Canada to address the Call to Action.

**Recommendation:**

The Senate Planning and Priorities Committee recommends:

**THAT Senate approve the Report of the Senate Planning and Priorities Committee concerning undergraduate course changes beyond nine credit hours, including a proposal for a Concentration in Access to Justice in French, in the Faculty of Law, effective for the 2022 Fall Term.**

Respectfully submitted,

Professor David Watt, Chair  
Senate Planning and Priorities Committee

## Executive Summary

### Program Modification Faculty of Law

#### Concentration in Access to Justice in French

The Access to Justice in French concentration provides J.D. students with the basic skills required to provide legal services to clients in both official languages with a view to increasing the access to justice of members of official language minority communities outside Quebec.

The course requirements for this new concentration are outlined in the following table.

#### Concentration requirements

Course	Title	Hours
<b>Year 1</b>		
LAW 1542	Méthodes juridiques	5
LAW 1378	Passeport du droit en français 1	1
	<b>Hours</b>	<b>6</b>
<b>Year 2</b>		
LAW 2682	Négociation juridique	3
LAW 2652	Introduction à la plaidoirie	3
LAW 2378	Passeport du droit en français 2	1
	<b>Hours</b>	<b>7</b>
<b>Year 3</b>		
LAW 3378	Passeport du droit en français 3	1
	<b>Hours</b>	<b>1</b>
<b>Years 2-3</b>		
Group 1 – Legal Terminology		
Select one of the following		<b>3</b>
LAW 3372	Français juridique – droit public	
LAW 3374	Français juridique – droit privé	
Group 2 - Electives		
Select three of the following		<b>9</b>
LAW 2642	Droit de la famille	
LAW 3372	Français juridique – droit public <sup>1</sup>	
LAW 3374	Français juridique – droit privé <sup>1</sup>	
LAW 3376	Droits linguistiques	
LAW 3220	Competitions B – Laskin Moot <sup>2</sup>	
LAW 3220	Competitions B – Bastarache Moot	
LAW 3030	Research Paper B <sup>3</sup>	
LAW 3344	Internships	
<b>Total Hours</b>		<b>26</b>

<sup>1</sup> May not be taken as a Group 2 Elective if taken as a Group 1 Legal Terminology course.

<sup>2</sup> Counts towards the Concentration only for students mooting in French or otherwise completing a sufficient proportion of their research or written and oral advocacy work in French.

<sup>3</sup> Must write their research paper in French under the supervision of a bilingual faculty member.

The Program modification requires the introduction of the following courses:

- LAW 1378 Passeport du droit en français
- LAW 1542 Méthodes juridiques
- LAW 2378 Passeport du droit en français
- LAW 2642 Droit de la famille
- LAW 2652 Introduction à la plaidoirie
- LAW 2682 Négociation juridique
- LAW 3372 Français juridique – droit public
- LAW 3374 Français juridique – droit privé
- LAW 3376 Droits linguistiques
- LAW 3378 Passeport du droit en français

The Program modification requires the modification of the following courses to ensure that they cannot be taken with their bilingual equivalents:

- LAW 1540 Legal Methods
- LAW 2640 Family Law
- LAW 2650 Introduction to Advocacy
- LAW 2680 Legal Negotiation

The Program modification requires the deletion of the following course solely to effect a change in the course number (see LAW 3376 in the course introductions):

- LAW 3366 Droits linguistiques

## **Statement of Resource Implications**

### **Program Modification Faculty of Law**

In support of the proposal to create a Concentration in Access to Justice in French, the Faculty of Law offers the following statement on resource implications of the Concentration.

The Faculty has received funding from Justice Canada's Access to Justice in both Official Languages fund since 2011 to develop and implement the course and extracurricular offerings that form part of the proposed Concentration. While never guaranteed, the prospects for continued funding are good. The pool of funds available through Justice Canada was increased by 25% as part of the federal Official Languages Strategy to \$53.75 million. The Faculty will continue to seek funding to fully support and enhance this Concentration from the Department of Justice.

As part of the proposed Concentration, one course will be deleted and eight added for a formal net increase in credits of 23 credits. In fact, several of the courses are bilingual sections of existing courses, or formal implementation of topics courses, so the actual number of new courses being added beyond those already offered in some form is, at most, three, for a total of 9 credits.

No new academic positions are required as many members of the Faculty are already able to teach in the bilingual courses if they wish, and an important part of the teaching is carried out by practicing professionals who are part of the francophone community. The Faculty has committed to supporting the cost of sessional pay at an amount of \$29,000.

No full-time administrative position is required, but allocation of 25-30% of the time of an administrative staff member who is able to work in both official languages is desirable. The faculty proposes to provide support of \$11,000 to this administrative role.

The proposed concentration is not expected to have any impacts on the other programs offered by the Faculty.

The proposed Concentration is not expected to lead to changes in enrolment as it is available only to admitted JD students. It is not anticipated that tuition fee revenue will be affected by this Concentration as the number of places in the Faculty is not affected, so the revenue will remain the same. The Concentration may, once it is promoted, grow the pool of applicants as interested candidates choose to apply to the Faculty who might not have done so in the absence of the Concentration.

Because many of the participants in the Concentration are expected to be bilingual anglophones who may require support with their language competence, the Faculty has worked with the Service de perfectionnement linguistique at the Université de St Boniface to evaluate and support the students' confidence and competence. The Faculty has committed to supporting this service to our students at an amount of \$20,000. Additionally, as with their participation in English language moots, the Faculty has committed to provide travel support for student participation in the French language moots (and for grammar software, Antidote) for a total of \$10,000. The Faculty will continue to seek Canadian Heritage bursaries to support bilingual Anglophones pursuing postsecondary education in French.

The Faculty does not require any new subvention from the University Fund, but will support the program through tuition revenue and grant monies.



Office of the Provost and Vice-President (Academic)

## PROPOSAL FOR NEW ACADEMIC MINOR OR CONCENTRATION

Please enter the requested information below and submit both hardcopies and electronic copies to the Office of the University Secretary and the Deputy Provost (Academic Planning and Programs). If you have any questions, please contact Cassandra Davidson, Academic Program Specialist, at [cassandra.davidson@umanitoba.ca](mailto:cassandra.davidson@umanitoba.ca).

It is advised that the unit initially discuss the proposed new minor/concentration with the Deputy Provost (Academic Planning and Programs) prior to completion of and submission of this form.

**Date:** 16 August 2021

**Faculty:** Law

**Department:** n/a

**Contact Details:** Dr. Richard Jochelson, Dean of Law, [richard.jochelson@umanitoba.ca](mailto:richard.jochelson@umanitoba.ca), 204-474-9282

### Section 1: Program Overview

**1. Program type:** Minor:  Concentration:

**2. Proposed program name:** Access to Justice in French

**3. Length of program:** *Indicate the required number of credit hours including associated pre-requisite requirements.*  
26 credits over the 3 years of the 92 credit J.D. program

**4. Proposed start of program:**  
September 2022

### Section 2: Program Details

**5. Description of program:** *Provide a brief outline of the program, its objectives and how it will benefit student.*

The Access to Justice in French concentration will allow bilingual students entering the J.D. program to take 26 or more credits of their J.D. program in bilingual courses, taught primarily in French.<sup>1</sup>

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<sup>1</sup> Most instruction and classroom discussion will be offered entirely or primarily in French. However, English-language course materials, such as textbooks, may occasionally be used to ensure equivalency with courses in the English-

The concentration has two main objectives. First, it will help our graduates meet the access to justice needs of French-speakers and second, it will enhance the career prospects of our graduates. The concentration addresses the needs of French-language communities in Manitoba, and other majority English-speaking Canadian provinces and territories, for legal services in French by providing J.D. students with the knowledge and skills required to provide these services.<sup>2</sup> Manitoba is one of only three Canadian provinces, Québec and New Brunswick being the others, with constitutionally guaranteed legislative and judicial bilingualism.<sup>3</sup> Laws and regulations in Manitoba must be enacted in French and English. Manitobans have the option to use either French or English before Manitoba's courts and adjudicative tribunals. Federal laws are also enacted in English and French and Manitobans, like other Canadians, have the right to a French-language criminal trial and the right to conduct their divorce proceedings in French. All lawyers in Manitoba are bound by the Law Society of Manitoba's Code of Professional Conduct to advise their clients of their language rights and may only represent their client in French if they are competent to provide the required legal services in that language.<sup>4</sup> French is the mother tongue of 3.4% of Manitoba's population and nearly 9% of Manitobans speak both French and English.<sup>5</sup> The Province of Manitoba has, through legislation, pledged to continue fostering the advancement of Manitoba's Francophone community<sup>6</sup> and recognized that "steady growth in the provision of French language services across sectors" will enhance its vitality.<sup>7</sup> Additionally, out of all Indigenous groups in Canada, Métis people had the highest English-French bilingualism rate, 17.3%, almost identical to that of the non-Aboriginal population in 2011.<sup>8</sup>

Manitoba is the only Canadian province where legislative and judicial bilingualism is constitutionally guaranteed that does not have a law school offering a formal program of study designed to equip its bilingual students with the French-language legal terminology, practice skills and understanding of the

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language J.D. program. Lectures or live demonstrations (in experiential courses) may also occasionally be delivered in English.

<sup>2</sup> These needs were described by Justice Canada in 2017: "According to the evidence, there is an ongoing need to support language training for legal professionals, and a need to provide legal information to Canadians living in minority language communities. Multiple sources indicate the need for more bilingual capacity among judges. Key informants indicated that there is an ongoing need to train and support other legal professionals to ensure equal access to justice in both official languages. There is also a need for actions to ensure that OLMCs [Official Language Minority Communities] in general, and specific populations within those OLMCs such as recent immigrants, become aware of their rights and obligations, as well as a need to provide legal information in both languages, especially to support self-represented litigants.": [Canada, Department of Justice, Evaluation of the Access to Justice in Both Official Languages Initiative Final Report, June 2017, p 45.](#)

<sup>3</sup> [Manitoba Act, 1870](#), 33 Vict., c 3 (Can.), s 23.

<sup>4</sup> Law Society of Manitoba, [Code of Professional Conduct](#), ss 3.2-2A, 3.2-2B.

<sup>5</sup> Office of the Commissioner of Official Languages, [The French Presence in Manitoba](#).

<sup>6</sup> "Manitoba's Francophone Community" is broadly defined as "persons in Manitoba whose mother tongue is French and those persons in Manitoba whose mother tongue is not French but who have a special affinity for the French language and who use it on a regular basis in their daily life": [The Francophone Community Enhancement and Support Act, CCSM F157, s 1\(2\)](#).

<sup>7</sup> *Ibid*, s 3.

<sup>8</sup> Government of Canada, [Aboriginal Peoples and Language](#).



francophone community that they will need to serve their francophone clients in French.<sup>9</sup> Many current francophone members of the bar and bench had no other option but to obtain a French common law legal education outside Manitoba – at the University of Ottawa Faculty of Law’s French Common Law Section and the Université de Moncton – to secure the training they needed to serve their francophone clients in French. While the concentration would be available solely to students registered in the J.D. program, francophone immigrants to Manitoba who hold professional degrees previously obtained in the French language could be allowed to complete individual bilingual courses, subject to Faculty of Law and University policies, to support the recognition of their international credentials, as required under *The Fair Registration Practices in Regulated Professions Act*.<sup>10</sup>

The need for French-language legal services, particularly in criminal, family and immigration law, is significant and increasing. Manitoba is home to a growing population of immigrants from international francophone communities who are unable to communicate in English. This trend will only accelerate with the federal government’s recent commitment to increasing francophone immigration to “enhance the vitality of French linguistic minority communities” set out in proposed amendments to the *Official Languages Act*, RSC 1985, c 31.<sup>11</sup> Many francophone Manitobans whose families have been in Canada for generations also speak English but still prefer receiving advice and communicating with their legal counsel in their mother tongue, particularly in matters relating to criminal offences, family law and wills and estates. Graham Fraser, Canada’s former Official Languages Commissioner, observed that members of French-language minority communities are frequently underserved by the legal profession, and encounter difficulties in exercising language rights before the courts. If they do exercise these rights, they face numerous obstacles and administrative delays. In his view, Canadian law schools are partly responsible for this state of affairs:

In large parts of the country, there is a shortage of lawyers able to represent their clients before the courts in both official languages. Most Canadian law schools do not adequately make their students aware of the existence and importance of these language rights. The majority of law students graduate knowing only half of the laws they studied – either the English or the French half. Once called to the bar, lawyers are rarely made aware or reminded of these rights and their importance for their clients.<sup>12</sup>

The Access to Justice in French Concentration will allow law students to create a community of bilingual students within the J.D. program and, throughout their program and upon graduation, engage and

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<sup>9</sup> Linguistic minorities in Québec and New Brunswick are served by lawyers trained at McGill University and the Université de Moncton, respectively. In Ontario, where legislative and judicial bilingualism is not constitutionally guaranteed, the relatively large francophone population is served by lawyers trained at the University of Ottawa Faculty of Law’s French common law section.

<sup>10</sup> [CCSM c F12](#).

<sup>11</sup> [Bill C-32, An Act for the Substantive Equality of French and English and the Strengthening of the Official Languages Act, 2nd Sess, 43rd Parl, 2020-21, cl 24](#). This bill will likely be re-introduced in the 44th Parliament.

<sup>12</sup> Graham Fraser, *A Vision for the Future: The Role of Canada’s Legal Community in Promoting Linguistic Duality and the National Conversation*, online: [https://www.clo-ocol.gc.ca/html/speeches\\_discours\\_14082007\\_e.php](https://www.clo-ocol.gc.ca/html/speeches_discours_14082007_e.php)

integrate with a community of bilingual legal practitioners with the skills and numbers to address the francophone community's access to justice needs.

The concentration's second objective is to provide J.D. students access to the greater range of career opportunities available to bilingual lawyers. Even when a position is unilingual, bilingualism, and an understanding of Canada's bilingual foundations, are key to competently applying a textual/literal approach to statutory interpretation required in any legal position. The English and French versions of Manitoba and federal statutes have equal force, and the Supreme Court of Canada has held that "statutory interpretation of bilingual enactments begins with a search for the shared meaning between the two versions. Where the words of one version may raise an ambiguity, courts should first look to the other official language version to determine whether its meaning is plain and unequivocal"<sup>13</sup>. Lawyers must be trained to recognize the need to understand the laws in both versions, and to seek assistance of bilingual colleagues when needed. While this is relevant to all our students, not only those in the concentration, the presence of the concentration will raise awareness for all.

Lawyers who can serve francophone clients in their own language in Manitoba and neighbouring provinces and territories offer private law firms access to a significant market. Lawyers' ability to communicate in French is also important to corporate clients based in Québec and other countries who do business in Manitoba.<sup>14</sup> Bilingualism is an asset for many public sector legal positions with both the provincial and federal governments, including crown prosecutors. Opportunities in the international sphere, whether with private firms or in international organizations such as the International Criminal Court also require candidates to have the capacity to work in languages besides English. New statutory obligations allowing Canadians to seek divorce proceedings in French,<sup>15</sup> along with current rights to French-language trials,<sup>16</sup> mean that demand for bilingual lawyers and provincially and federally-appointed judges will increase. Bilingualism is an asset for clerkship positions with the Tax Court of Canada, the Federal Court and Court of Appeal and the Supreme Court and for eventual appointment as judges to these courts. Manitoba's Court of Queen's Bench and Court of Appeal are currently headed by bilingual chief justices. In 2021, the Federal government announced that it would be formalizing its policy that appointees to Canada's Supreme Court be bilingual through [amendments to Canada's Official Languages Act](#).<sup>17</sup> Graduates of the University of Manitoba's Faculty of Law who aspire to become Manitoba's next Brian Dickson or Marshall Rothstein should be given the tools they need to achieve that goal.

Integrating the Faculty of Law's bilingual course offerings into a formal, University-recognized concentration will benefit the Faculty's bilingual students, the Faculty, and the University. The required

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<sup>13</sup> *R. v Mac*, 2002 SCC 24.

<sup>14</sup> For example, when French multinational Roquette, which is opening the world's largest [pea-processing plant](#) in Portage la Prairie, sought to secure local legal services, the lawyers' ability to communicate with management in French was a key factor.

<sup>15</sup> [Divorce Act, RSC 1985, c 3 \(2nd Supp.\), s 23.2](#).

<sup>16</sup> [Criminal Code, RSC 1985, c C-46, s 530](#).

<sup>17</sup> [Bill C-32, An Act for the Substantive Equality of French and English and the Strengthening of the Official Languages Act, 2nd Sess, 43rd Parl, 2020-21, cl 11\(2\)](#).

courses at the core of the concentration will benefit students by comprehensively and effectively developing the basic skills and knowledge they require to practice law in French upon completion of the program. The Faculty of Law will offer a unique, practice-focused program, designed in close collaboration with Manitoba's francophone Bar, that future law students will view as a key feature that differentiates the Faculty's J.D. program from that of other law schools. By training future lawyers who can serve francophone clients and allow them to exercise their constitutional and statutory language rights, the University of Manitoba will fulfill its duty of serving the community at a provincial and national level.

**6. Course requirements:** *Provide a list of courses (include course codes) and breakdown of course requirements by level (e.g. 6 hours at the 1000 level, 3 hours at the 2000 level, etc.). Indicate whether proposed coursework is currently offered or new. Note any pre-requisite details where applicable.*

The following courses are taught entirely or primarily in French. However, the practice of law in a bilingual setting inevitably involves the use of English to communicate with various actors in the justice system, including opposing counsel. Accordingly, particularly where equivalent French-language resources are not available, English-language course materials such as textbooks may occasionally be used, ensuring equivalency with courses in the English-language J.D. program, and some lectures or live demonstrations (e.g., in experiential courses) may be delivered in English.

**Required courses (17 credit hours):**

YEAR 1:

The students must complete:

- LAW 1542 Méthodes juridiques, 5 credits **NEW**
  - This course is the bilingual equivalent to (and cannot be held with) the existing LAW 1540 Legal Methods, a bilingual section of which has been offered since 2012.
- LAW 1378 Passeport du droit en français 1, 1 credit **NEW**
  - This course, with Passeport du droit en français 2 and Passeport du droit en français 3 to be respectively offered in second and third year, will replace the current LAW 3250, Current Legal Problems D - Passeport du droit en français, 3 credits spanning the 3 years of the J.D. program but formally taken (and credits earned) in the final term of third year (offered since 2019).

YEAR 2:

The students must complete:

- LAW 2682 Négociation juridique, 3 credits **NEW**
  - This course is the bilingual equivalent to (and cannot be held with) the existing LAW 2680 Legal Negotiation, a bilingual section of which has been offered since 2020;

- Prerequisite: LAW 1542 Méthodes juridiques or written consent of the Associate Dean (J.D.).
- Corequisite: LAW 3378 Passeport du droit en français or written consent of the Associate Dean (J.D.).<sup>18</sup>
- LAW 2652 Introduction à la plaidoirie, 3 credits<sup>NEW</sup>
  - This course is the bilingual equivalent to (and cannot be held with) the existing LAW 2650 Introduction to Advocacy, a bilingual section of which has been offered since 2020;
  - Prerequisites: LAW 1542 Méthodes juridiques or written consent of the Associate Dean (J.D.).
  - Corequisite: LAW 3378 Passeport du droit en français or written consent of the Associate Dean (J.D.).<sup>19</sup>
- LAW 2378 Passeport du droit en français 2, 1 credit<sup>NEW</sup>
  - This course, with Passeport du droit en français 1 and Passeport du droit en français 3 to be respectively offered in first and third year, will replace the current LAW 3250, Current Legal Problems D - Passeport du droit en français, 3 credits spanning the 3 years of the J.D. program but formally taken (and credits earned) in the final term of third year (offered since 2019).

### YEAR 3:

The students must complete:

- LAW 3378 Passeport du droit en français 3, 1 credit<sup>NEW</sup>
  - This course, with Passeport du droit en français 1 and Passeport du droit en français 2 to be respectively offered in first and second year, will replace the current LAW 3250, Current Legal Problems D - Passeport du droit en français, 3 credits spanning the 3 years of the J.D. program but formally taken (and credits earned) in the final term of third year (offered since 2019).

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<sup>18</sup> Written consent of the Associate Dean (J.D.) will be required for the registration of J.D. students who have not completed the prerequisite course and are not registered for the corequisite course. While students who have completed the prerequisite course and are registered for the corequisite course to qualify for the Concentration are thus prioritized, the Associate Dean (J.D.) preserves a discretion to allow J.D. students who demonstrate sufficient proficiency in French, including those transferring to the Faculty of Law from Canadian French common law programs, to take LAW 2682 Négociation juridique.

<sup>19</sup> Written consent of the Associate Dean (J.D.) will be required for the registration of J.D. students who have not completed the prerequisite course and are not registered for the corequisite course. While students who have completed the prerequisite course and are registered for the corequisite course to qualify for the Concentration are thus prioritized, the Associate Dean (J.D.) preserves a discretion to allow J.D. students who demonstrate sufficient proficiency in French, including those transferring to the Faculty of Law from Canadian French common law programs, to take LAW 2652 Introduction à la plaidoirie.

YEAR 2 or YEAR 3:

The students must complete **one** of:

- LAW 3372 Français juridique – droit public, 3 credits<sup>NEW</sup> (currently offered as LAW 3980, Current Legal Problems B - Français juridique – droit public, 3 credits); or
- LAW 3374 Français juridique – droit privé, 3 credits<sup>NEW</sup> (currently offered as LAW 3980, Current Legal Problems B - Français juridique – droit privé, 3 credits)

**Optional courses: a minimum of 3 courses totalling 9 credit hours from Lists A (writing requirement) and B (elective courses – second or third year):<sup>20</sup>**

The students must complete a minimum of 3 of the following courses totalling 9 credit hours:

- LAW 3372 Français juridique – droit public, 3 credits<sup>NEW</sup> or LAW 3374 Français juridique – droit privé, 3 credits<sup>NEW</sup> **whichever the student did not take as a required course** (these courses are to be added to List B);
- LAW 3376, Droits linguistiques, 3 credits (changes number and remains in List A);<sup>21</sup>
- LAW 2642, Droit de la famille, 3 credits<sup>NEW</sup> (this course is the bilingual equivalent to (and cannot be held with) LAW 2640 Family Law, 3 credits – a bilingual section of which is offered in 2021-2022 – and is to be added to List B);
- LAW 3220, Competitions B - Laskin Moot, 3 credits (remains in List B);
- LAW 3220, Competitions B - Bastarache Moot, 3 credits (remains in List B);
- LAW 3030, Research Paper B, 3 credits – research paper must be written in French (remains in List A);
- LAW 3344, Internships, 3 credits – French section of existing Internship Course (remains in List C).

All told, students must take a total of 26 credits in required and optional courses from among the 38 credits of Concentration courses offered by the Faculty, providing them some flexibility in the completion of the Concentration.

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<sup>20</sup> To the extent permitted by the University of Manitoba's Academic Calendar, these courses can count toward requirements for both the J.D. program and this concentration.

<sup>21</sup> This course is currently offered as LAW 3366 Droits linguistiques, 3 credits. The course number will be changed to LAW 3376 in order that courses unique to the Access to Justice in French Concentration receive course numbers between LAW 3372 and LAW 3378.

**7. Program availability:** *Will this program be offered to all students eligible to declare a minor/concentration or will it be restricted to a subset of students. If the latter, provide a brief explanation as to why the program will be restricted.*

The concentration is open to all first-year students accepted into the J.D. program who have a basic level of French (commonly gained through immersion programs or having French as a mother tongue). Prior to beginning their first-year bilingual courses, students who have not graduated from a French-language post-secondary program will be required to take a language assessment, provided in partnership with Université de Saint-Boniface. By measuring their oral and written French language skills and recommending individualized learning opportunities, the assessment will allow students to determine, in consultation with the responsible faculty members, whether to participate, based on their comfort with their assessed capacity in French, taking into account that it will be more demanding to complete the J.D. program in both official languages.

**8. Admission requirements:** *If applicable, outline any admission requirements to the program.*

At present, there are no additional admission requirements, as students are already admitted to the J.D. program through the regular admissions process. Students, once admitted, are invited to participate in the bilingual courses and may then opt to complete the concentration based on their own level of interest and their commitment to the extra effort involved in learning a challenging subject in two languages simultaneously. Students will not be required to declare the concentration until after their first year in the J.D. program. The required language assessment (see section 7, above) and individualized learning plans will ensure that students aspiring to take bilingual courses have “passive bilingualism” –a solid ability to understand written and oral French and at least a basic ability to communicate (both verbally and in writing) in French. They will also enable students and the responsible faculty members to have a robust and ongoing conversation about the students’ ability to succeed in the concentration.

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### Section 3: Program Demand

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**9. Strategic priorities:** *Comment on how the program fits within the university’s strategic priorities.*

The proposed concentration furthers at least three of the University’s five strategic priorities: creating pathways to Indigenous achievement; building community that creates an outstanding learning and working environment; and forging connection to foster high impact community engagement.

#### *Creating pathways to Indigenous achievement*

The history of Manitoba’s francophonie is interwoven with that of the Métis community in Manitoba. The concentration seeks to create a culturally rich and safe learning environment and, where possible, weave in Indigenous knowledge, as illustrated by the incorporation of the protection of Indigenous language

rights in the LAW 3376 Droits linguistiques course<sup>22</sup> and the inclusion of the story of the francophone Métis community as a key dimension of Manitoba's francophonie in LAW 1378, LAW 2378 and LAW 3378, respectively Passeport du Droit en Français 1, 2 and 3.<sup>23</sup> The founding of Manitoba as a bilingual province through the *Manitoba Act, 1870* was largely attributable to the efforts of Louis Riel and the Council of Assiniboia to protect the cultural, religious and linguistic diversity in the homeland of the Métis nation. Michif is a mixed language (not a creole) developed in the early 1800s by speakers who were fluent in both Cree and French. It is in severe peril (700-1000 fluent speakers remaining, the vast majority in Manitoba and Saskatchewan). Given Michif's French roots, supporting French-language education within the Faculty also supports students seeking to understand, use and protect this significant part of Métis cultural identity. Additionally, TRC Call to Action #28 requires Canadian law programs to introduce all students to Indigenous and colonial histories, current legal relations, and key concepts in intercultural competencies and anti-racism. These French course offerings, with their foundations in constitutional language rights, are one of the many ways the Faculty can meet its commitments to truth and reconciliation.

*Building community that creates an outstanding learning and working environment*

A number of students enter the J.D. program each year with a moderate ability in French, principally gained through French Immersion programs in the public school system. Upon graduation from these programs, students are typically competent in French, but often not at the level that is required or preferred for many bilingual jobs. To achieve complete fluency, additional training and experience will often be necessary. Not only this, but these students will spend at least four years in a post-secondary program after graduating high school before entering the Faculty of Law, during which they rarely if ever practice their French, and as such their French proficiency tends to deteriorate.

For many of these students, the possibility of undergoing a three-year concentration in French as part of their J.D. education is extremely attractive, as it will allow for their French to reach a level that will open many doors and possibilities for them throughout their careers in the context of a small and supportive community of students and faculty that will carry them into legal practice. The benefits of complete bilingualism are obvious (some listed elsewhere in this document), but particularly so in the legal field where there is a heavy emphasis on Canada's constitutional bilingualism. Creating and fostering an environment that enables law students to be better qualified for many important leadership roles across Manitoba's and Canada's legal landscape helps the Faculty of Law at the University of Manitoba stand out from the rest of Canada's common law schools, and clearly serves the goal of making the University of

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<sup>22</sup> Formerly LAW 3366. The course description for Law 3376 reads [Translation]: "The Language Rights course addresses the various legal and political aspects of the state's protection of its linguistic diversity. After an introduction focusing on the social, political and cultural context of language rights in Canada and Manitoba, the course will examine the constitutional and statutory law applicable at the federal level and in the Canadian provinces, Indigenous language rights, and the protection of language rights in international law and elsewhere in the world. The course will conclude with an examination of the visions of official language minority communities (and in particular, the Franco-Manitoban community) for their future."

<sup>23</sup> Formerly LAW 3250, Current Legal Problems D - Passeport du Droit en Français.

Manitoba an attractive choice for aspiring lawyers. Official recognition of the concentration would give students confidence that our program of study will help them achieve their goals.

*Forging connection to foster high impact community engagement*

It is important to remember that the University of Manitoba must not only benefit individual students, but as a public university, it also has a duty to serve the community. Francophone communities west of Quebec have historically faced repression regarding their ability to exercise their right to legal services in French. By implementing an Access to Justice in French concentration, the University of Manitoba will not only provide individual benefits to students, but it will also fulfil its duty as a public institution to meet the needs of Manitoba as a diverse community. Educating lawyers who are capable of ensuring that French-speaking community members can exercise their rights and enjoy access to justice on an equal footing with Manitobans who speak English is an important step to fulfilling the University's goal of serving the community, particularly given that the targeted segment of the Canadian/Manitoban community is one that has faced historical disadvantages and difficulties, and whose members are very often also racialized. This is a commitment that needs particular attention.

In many ways, Manitoba has, over the past three decades, emerged as a leader among Canadian provinces regarding its commitment to upholding bilingualism in Canada. This program would contribute to solidifying that status and bringing positive recognition to the University for its part in creating this reality.

**10. Student demand:** *Provide evidence of student demand and interest in the program.*

Building up to formalizing a bilingual concentration under the terms of the 2019-2022 Justice Canada grant, the Faculty of Law has offered a small range of bilingual courses since the winter of 2011. In this period, between academic years 2012-13 and 2017-2018, an average of 11 students registered annually in a bilingual section of Legal Methods, a first-year course where students learn basic legal research and writing skills. Between the Winter 2011 and Fall 2017 terms, Law 3980, Current Legal Problems B - Français juridique, a course introducing bilingual students to areas of law key to enhancing the access to justice of francophone communities and their associated French-language legal terminology, was offered 8 times and attracted on average 8 students each term. After a one-year hiatus, under the 2019-2022 Justice Canada grant, a bilingual section of Legal Methods was offered once more, this time as part of a plan to develop this concentration: a more formal course of study that would see students taking over a quarter of their J.D. credits in bilingual courses. Enrollment in Legal Methods was 6, 11 and 9 students in 2019, 2020 and 2021 respectively. Significantly, students have never been actively recruited to apply to the Faculty of Law with a view to participating in bilingual courses. Rather, expressions of interest to do so have been sought from the incoming class of admitted first year students. In a 2018 survey of students who had completed bilingual courses offered at the Faculty of Law, close to 90% of the 30 responding students agreed or strongly agreed that having local faculty and practitioners coordinate and deliver in-person instruction in juridical French, legal methods or language rights was important to their learning and mastering the skills and knowledge imparted in those courses. Over 70% of these students disagreed or strongly disagreed that they would be equally satisfied if these skills and knowledge were delivered via



videoconferencing by instructors located in another province. Close to 85% of these students agreed that an important and valuable aspect of the bilingual courses was that they offered an opportunity to meet fellow bilingual students and feel part of a bilingual community within the law school and in the larger community.

The steady, if not growing, number of students expressing interest in bilingual course offerings from year to year reflects a corresponding growing nationwide interest in French immersion programs and in bilingualism in general. This has been achieved without any marketing efforts, although we are prepared to undertake those once the program is confirmed as a concentration. The federal government's commitment to increasing its support for French immersion programs is now set out in proposed amendments to the *Official Languages Act*, RSC 1985, c 31.<sup>24</sup>

The primary benefit of the program will be the knowledge and skills that students gain, for which official certification is not necessary, but a concentration formally recognized by the University will allow students to demonstrate to future employers or clients that they have the skills required to provide legal services in French. It also supports Justice Canada's commitment to supporting access to justice in both official languages across the country, beyond Quebec and Ontario where there are higher numbers of minority language speakers.

**11. Projected enrolment:** *Based on the evidence of demand, provide projected enrolment numbers in the program.*

Based on the number of students who have participated so far (see section 10), and assuming an active recruitment effort for bilingual students to apply for admission to the Faculty of Law to undertake bilingual legal studies as part of a concentration formally recognized by the University of Manitoba, a realistic estimate would be that between 12 and 16 students (12-16 % of the incoming first year class) would participate in the concentration every year.

**12. Effects on other programs:** *Comment on the potential effect of the program on other existing programs. Attach letters of support for any programs/units impacted by the proposed program.*

We do not anticipate that approval of the proposed "Access to Justice in French" concentration will affect other existing programs.

**13. Similar programs:** *If known, describe similar programs within Manitoba, outlining any similarities or differences with the proposed program.*

There are no similar programs in Manitoba and the only French-language common law programs in the country are at the University of Ottawa and Université de Moncton, requiring students to leave Manitoba to pursue a legal education in French (Section 5, above). In addition, there are two programs that include

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<sup>24</sup> [Bill C-32, An Act for the Substantive Equality of French and English and the Strengthening of the Official Languages Act, 2nd Sess, 43rd Parl, 2020-21, cl 21.](#) The bill will likely be re-introduced in the new Parliament.

'bilingual offerings': University of Ottawa's Canadian Program (offering 30 bilingual credits to students in several western Canadian law schools who complete 15 French credits at Ottawa in their third year and the other 15 credits in distance courses offered through the first two years from UCalgary), and McGill University's BCL/JD law program which is bilingual and transsystemic.

**14. External consultation:** *Where appropriate, outline any consultations with industry, business and/or any third-party groups in development of the proposed program.*

Bilingual courses were first offered by the Faculty of Law at the request of members of the [Association des Juristes d'Expression Française du Manitoba \(AJEFM\)](#), an association that represents Manitoba's francophone lawyers, and representatives of the [Centre Canadien de Français Juridique \(CCFJ\)](#), a non-profit organization that trains public and private-sector workers who work in Canada's justice system (including judges, police officers and private sector lawyers) in French legal terminology. Legal practitioners from the AJEFM and CCFJ contributed to the design of, and have acted as instructors in, courses including Français juridique and Droits linguistiques, making the Faculty's bilingual offerings a grassroots effort. External consultation played an integral part in developing the proposed concentration and in securing Justice Canada funding to support its development. In 2018, a survey was conducted of students who had completed bilingual courses offered at the Faculty of Law. The results of this survey revealed that a strong majority of surveyed students preferred in-person delivery of French-language legal skills to other means of delivery, believed that a valuable aspect of the French-language courses was that they allowed students to integrate a community of bilingual legal practitioners and law students and showed very strong support for the creation a bilingual program leading to formal recognition by the University. In the summer of 2018, the survey results were presented to the Faculty of Law's community partners, including representatives of the [Université de Saint-Boniface](#), the [Office of the Commissioner of Official Languages](#), the [Fédération des Associations de Juristes d'Expression Française \(FAJEF\)](#) and the AJEFM as well as local practitioners and judges. The comments gathered at this consultation session were incorporated into our application for Justice Canada funding and into the proposed concentration. These stakeholders emphasized that the proposed course of study had to be focused on developing the written and oral advocacy skills that would enable the students to communicate with and represent francophone clients as soon as possible after graduation and certification by the Law Society in areas with the greatest access to justice needs (criminal law, family law, immigration law and wills and estates). They were also of the view that bilingual students should be provided sufficient supports to improve their oral and written French-language skills, a recommendation implemented through a language evaluation and access to French-language tutoring through the first year of the concentration via the USB.

The Faculty of Law is also a member of the [Reseau National de Formation en Justice \(RNFJ\)](#), a collaborative body of postsecondary institutions, jurilinguistic centres and non-profit organizations that provide training services. The RNFJ advises the federal government on the language training needs of provincial justice stakeholders and facilitates collaboration between its members on initiatives to meet these needs to advance access to justice in both official languages. The courses, and eventual concentration, offered in

the Faculty of Law at the University of Manitoba are considered to be an integral part of the holistic national approach that the RNFJ promotes.

Letters of support for the Access to Justice in French Concentration were requested and received from community stakeholders, including the Government of Manitoba's Francophone Affairs Secretariat, the Commissioner of Official Languages, the Société de la francophonie manitobaine, the Law Society of Manitoba and the Chief Justice of Manitoba. They can be found at Tab F of the Proposal.

#### Section 4: Resource Requirements

**15. Projected costs and revenues:** *Provide a general overview of the projected costs and revenues of the program.*

*Where applicable, comment in detail on the categories below.*

The Faculty has received more than \$1,500,000 through Justice Canada's Access to Justice in both Official Languages fund over the 10 years since 2011, as well as more recently (2020 and 2021) \$46,000 for 15 bursaries administered by the [Association des colleges et universités de la francophonie canadienne](#) on behalf of Canadian Heritage to support bilingual Anglophones pursuing postsecondary education in French. Through the Concentration and associated extracurricular activities (including networking with lawyers and attending Law Society continuing legal education programs in French), students can maximize their participation in French activities to be eligible for these bursaries.

Prospects for continued funding are good. The pool of funds available through Justice Canada has recently increased by 25% as part of the federal Official Languages Strategy.<sup>25</sup> Proposed amendments to the *Official Languages Act*, RSC 1985, c 31 confirm that federal institutions have a duty to ensure that positive measures are taken to protect and promote French within Canada, which may include measures to "promote and support the learning... of French" and "to induce and assist organizations and institutions to project and promote the bilingual character of Canada" and "to support sectors... essential to enhancing the vitality of... French linguistic minority communities, including the ... [post-secondary] education... and justice... sectors..."<sup>26</sup>

It is not anticipated that tuition fee revenue will be a factor in this program as the number of places in the faculty is not affected by the offer of this program, so the revenue will remain the same.

The anticipated ongoing costs of the program are as follows:

Sessional instructors	\$29,000
Administrative support	\$11,000
Language evaluation/tutoring (USB)	\$20,000
Travel and materials (moots, <a href="#">Antidote</a> )	\$10,000
<b>TOTAL</b>	<b>\$70,000</b>

<sup>25</sup> Canada, Canadian Heritage, [Investing in Our Future: 2018–2023 Action Plan for Official Languages](#), from \$42.2 million to \$53.75 million, at p 36.

<sup>26</sup> [Bill C-32, An Act for the Substantive Equality of French and English and the Strengthening of the Official Languages Act](#), 2nd Sess, 43rd Parl, 2020-21, cl 21. The bill will likely be re-introduced in the new Parliament.

**16. Coursework:** *Comment on whether the proposed program will require the offering of additional courses.*

In this section, SI means “sessional instructor” and FTF means “full-time faculty member”.

The proposed concentration will require the creation of additional bilingual courses. However, the content of the following new bilingual courses is currently offered in the J.D. program as described in the accompanying footnotes:

- LAW 1542 Méthodes juridiques, 5 credits (frequency – every year, SI)<sup>27</sup>
- LAW 1378 Passeport du droit en français 1, 1 credit (frequency – every year, FTF)
- LAW 2378 Passeport du droit en français 2, 1 credit (frequency – every year, FTF)
- LAW 3378 Passeport du droit en français 3, 1 credit (frequency – every year, FTF)<sup>28</sup>
- LAW 2682 Négociation juridique, 3 credits (frequency – every year, SI)<sup>29</sup>
- LAW 2652 Introduction à la plaidoirie, 3 credits (frequency – every year, SI)<sup>30</sup>
- LAW 2642 Droit de la famille, 3 credits (frequency – every two years, FTF)<sup>31</sup>
- LAW 3372 Français juridique – droit public, 3 credits (frequency - every two years, SI)<sup>32</sup>
- LAW 3374 Français juridique – droit privé, 3 credits (frequency – every two years, SI)<sup>33</sup>

The following courses are currently offered by the Faculty of Law in the J.D. program and would be maintained:

- LAW 3376, Droits linguistiques (offered since 2013, frequency - every two years, FTF)<sup>34</sup>

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<sup>27</sup> Bilingual content currently offered through a bilingual section of LAW 1540 Legal Methods, 5 credits.

<sup>28</sup> LAW 1378, 2378 and 3378 will be offered to students in years 1, 2 and 3, respectively, of the concentration/J.D. program. LAW 1378 will be a prerequisite for LAW 2378 and LAW 2378 a prerequisite for LAW 3378. Students in these courses attend the same lectures and presentations but, consistent with the principle of progression, are expected to participate in different ways and complete different assessments. While the assessments in LAW 1378 reinforce students’ passive bilingualism (reading and listening in French), the assessments in LAW 2378 and 3378 develop students’ ability to speak and write in French. Students attend/lead 6-7 one-hour seminars (the equivalent of 0.5 credits) per term. The content of these three courses is currently offered in LAW 3250, Current Legal Problems D - Passeport du droit en français, 3 credits.

<sup>29</sup> Bilingual content currently offered through a bilingual section of LAW 2680, Legal Negotiation, 3 credits.

<sup>30</sup> Bilingual content currently offered through a bilingual co-instructor assigned to one of the sections of LAW 2650 Introduction to Advocacy, 3 credits.

<sup>31</sup> Bilingual content currently offered through a bilingual section of LAW 2640 Family Law, 3 credits.

<sup>32</sup> Bilingual content currently offered through LAW 3980, Current Legal Problems B - Français juridique – droit public.

<sup>33</sup> Bilingual content currently offered through LAW 3980, Current Legal Problems B - Français juridique – droit privé.

<sup>34</sup> Droits linguistiques is currently numbered LAW 3366 but would be re-numbered LAW 3376 in order that courses unique to the Access to Justice in French Concentration receive numbers between LAW 3372 and LAW 3378.

- LAW 3220, Competitions B - Laskin Moot (offered since 2006, frequency – every year, practitioner coach)<sup>35</sup>
- LAW 3220, Competitions B – Bastarache Moot (offered since 2019, frequency – every year, practitioner coach)
- LAW 3030, Research Paper B, 3 credits (FTF supervisor)
- LAW 3344, Internships, 3 credits

**17. Staffing:** *Comment on whether the proposed program will require additional academic or administrative staff.*

An important part of the program is the presence of faculty members who are bilingual and connected to the teaching and the community building. Currently we have a significant number of colleagues who have this capacity and all are welcome to become engaged in a variety of ways according to their interest and comfort level. For example, two of our newer colleagues are both bilingual. Not all courses within the concentration will need to be taught by full-time faculty members. Given the significant community engagement throughout our efforts to build this concentration, we can anticipate that French-speaking lawyers will be pleased to teach on a sessional basis. So far, the grant from Justice Canada has covered the cost of such sessional instructors.

The concentration also needs bilingual administrative support, on less than a half time basis (25-30%). Funding has been provided for this support in the current grant, but the pandemic lockdowns made the engagement of new personnel difficult although the plan is to engage such support in the coming year.

**18. Infrastructure / equipment:** *Comment on how the proposed program will impact the use of current infrastructure and equipment.*

The infrastructure/equipment resources already in existence within the J.D. program are all that is required.

**19. Library resources:** *If the program involves new courses, or coursework that has not been offered on a regular basis in recent years, comment on the adequacy of existing library resources.*

Given the significant proportion of legal work that can be conducted with online resources, it is not anticipated that many additional library resources would be required. A list has been drawn up and shared with Matthew Renaud, Law Librarian, for the preparation of a statement on the adequacy of existing Library resources, annexed to this form.

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<sup>35</sup> Participation in the Laskin Moot would count towards the Concentration only for students participating as French mooters or otherwise completing a sufficient proportion of research or written and oral advocacy work in French.



## Transition Plan

### Program Modification Faculty of Law

#### Concentration in Access to Justice in French

Under the proposed program modification, the Access to Justice in French Concentration will be offered starting in September 2022.

However, some students currently completing their J.D. and earning their degree in 2023 and 2024 may be able to complete the substantive requirements of the Concentration by taking a combination of courses approved through the new Concentration and courses currently offered by the Faculty of Law (including courses offering bilingual sections or bilingual co-instruction) as illustrated in the following chart:

Year	Proposed Concentration	Currently offered courses
	<b>Required</b>	
1	LAW 1542 Méthodes juridiques 5cr	LAW 1540 Legal Methods (bilingual section) 5cr
1	LAW 1378 Passeport du droit en français 1	LAW 3250 Current Legal Problems D - Passeport du droit en français 3cr (credited in term 6)
2	LAW 2378 Passeport du droit en français 2	
3	LAW 3378 Passeport du droit en français 3	
2	LAW 2682 Négociation juridique 3cr	LAW 2680 Legal Negotiation (bilingual section) 3cr
2	LAW 2652 Introduction à la plaidoirie 3cr	LAW 2650 Introduction to Advocacy (with bilingual co-instructor) 3cr
2-3	<b>Required to select one of the following</b>	
	LAW 3372 Français juridique-droit public 3cr	LAW 3980 Current Legal Problems B - Français juridique-droit public 3cr
	LAW 3374 Français juridique-droit privé 3cr	LAW 3980 Current Legal Problems B - Français juridique-droit privé 3cr
2-3	<b>Required to select three of the following</b>	
	LAW 3372 Français juridique-droit public 3cr	LAW 3980 Current Legal Problems B - Français juridique-droit public 3cr
	LAW 3374 Français juridique-droit privé 3cr	LAW 3980 Current Legal Problems B - Français juridique-droit privé 3cr
	LAW 2642 Droit de la famille 3cr	LAW 2640 Family law (bilingual section) 3cr
	LAW 3376 Droits linguistiques 3cr	LAW 3376 Droits linguistiques 3cr
	LAW 3220 Competitions B-Laskin Moot 3cr	LAW 3220 Competitions B – Laskin Moot 3cr
	LAW 3220 Competitions B-Bastarache Moot 3cr	LAW 3220 Competitions B-Bastarache Moot 3cr
	LAW 3030 Research Paper B 3cr	LAW 3030 Research Paper B 3cr
	LAW 3344 Internships 3cr	LAW 3344 Internships 3cr

Students admitted in the Fall of 2020 and the Fall of 2021 who meet the requirements of the Concentration by taking a combination of courses currently offered by the Faculty of Law (including courses offering bilingual sections or bilingual co-instruction) and courses approved through the new Concentration will be provided with a letter from the Dean of Law indicating that they have met the requirements of the Concentration as it appears in the revised (future) Academic Calendar.

#### Resource Implications

No resource implications should result from the implementation of this transition plan.

## Faculty of Law

### Deletion:

LAW 3366 Droits linguistiques 3 cr -3.0

### Introductions:

LAW 1378 Passeport du droit en français 1 1cr +1.0

Language of instruction: French. Le Passeport du droit en français 1 donne aux étudiants de première année du programme J.D. qui participent à la Concentration d'accès à la justice en français l'occasion d'améliorer leur compétence langagière en français, passant d'un bilinguisme réceptif (compréhension orale et écrite) à un bilinguisme actif (expression orale et écrite). Le cours est organisé en une série de colloques informels menés en français par le chargé d'enseignement, des invités et des étudiants de deuxième ou troisième année à propos de thèmes reliés à la pratique bilingue du droit dans l'Ouest canadien, l'accès à la justice en français, l'acquisition de compétences culturelles et divers domaines du droit. Les étudiants prennent part aux discussions en classe et rédigent des textes de réflexion. Le Passeport devrait permettre aux étudiants bilingues de tisser des liens favorisant la prestation de services juridiques aux communautés francophones en situation minoritaire. Ce cours est noté sur une formule réussite/échec. This course is graded on a pass/fail basis.

LAW 1542 Méthodes juridiques 5 cr +5.0

Language of instruction: French. Une introduction aux compétences juridiques fondamentales dans les domaines de la recherche et de la rédaction juridique et de la plaidoirie orale. Ce cours est noté sur une formule réussite/échec. May not be held with LAW 1540. This course is graded on a pass/fail basis.

LAW 2378 Passeport du droit en français 2 1cr +1.0

Language of instruction: French. Le Passeport du droit en français 2 donne aux étudiants de deuxième année du programme JD qui participent à la Concentration d'accès à la justice en français l'occasion d'améliorer leur compétence langagière en français, passant d'un bilinguisme réceptif (compréhension orale et écrite) à un bilinguisme actif (expression orale et écrite). Le cours est organisé en une série de colloques informels menés en français par le chargé d'enseignement, des invités et des étudiants de deuxième ou troisième année à propos de thèmes reliés à la pratique bilingue du droit dans l'Ouest canadien, l'accès à la justice en français, l'acquisition de compétences culturelles et divers domaines du droit. Les étudiants prennent part aux discussions en classe et rédigent des textes de réflexion. Les étudiants de deuxième année lisent un article ou un jugement publié en français et rédigent et présentent un exposé qui commente ce texte. Le Passeport devrait permettre aux étudiants bilingues de tisser des liens favorisant la prestation de services juridiques aux communautés francophones en situation minoritaire. Ce cours est noté sur une formule réussite/échec. This course is graded on a pass/fail basis. Prerequisite: LAW 1378.

LAW 2642 Droit de la famille 3 cr +3.0

Language of instruction: French. Un aperçu des questions juridiques principales concernant les relations familiales et l'éclatement de la famille dans la société canadienne. Les sujets abordés comprennent la cohabitation, le mariage, la séparation, le divorce, la garde et le droit de visite des enfants, la pension alimentaire pour époux et enfants et la division des biens. May not be held with LAW 2640. This course is restricted to 2nd and 3rd year J.D. students. Prerequisite: LAW 1542 or written consent of the Associate Dean (J.D.).



LAW 2652 Introduction à la plaidoirie 3 cr +3.0  
Language of instruction: French. Une étude détaillée de la conduite d'une affaire dès son début jusqu'au procès. Le cours exige que les étudiants préparent et mènent un procès. Ce cours est noté sur une formule réussite/échec. May not be held with LAW 2650. This course is graded on a pass/fail basis. Prerequisite: LAW 1542 or written consent of the Associate Dean (J.D.).

LAW 2682 Négociation juridique 3 cr +3.0  
Language of instruction: French. La plupart des litiges se règlent avant le procès. Ce cours examine comment les avocats aident leurs clients par le biais d'entretiens, de conseils, de planification stratégique et de négociations efficaces, ainsi que certains des mécanismes, judiciaires et non judiciaires, qui facilitent le règlement des litiges avant le procès. Ce cours est noté sur un formule réussite/échec. May not be held with LAW 2680. This course is graded on a pass/fail basis. Prerequisite: LAW 1542 or written consent of the Associate Dean (J.D.).

LAW 3372 Français juridique - droit public 3 cr +3.0  
Language of instruction: French. Par le biais d'exposés magistraux, d'exercices et de simulations axés sur la pratique, ce cours initie les étudiants bilingues à certains sujets de droit public essentiels à l'amélioration de l'accès à la justice en français des justiciables francophones au Manitoba et ailleurs au Canada. Des praticiens experts donnent, en français, des conférences sur les principaux aspects de fond et de procédure de sujets liés au droit des réfugiés, au droit administratif, au droit de la famille, au droit pénal (détermination de la peine), au droit de la location résidentielle et aux droits de la personne, tout en mettant en évidence la terminologie juridique en français pertinente. La maîtrise et l'utilisation efficace de cette terminologie sont évaluées par des travaux écrits et par la participation des étudiants à des simulations et exercices oraux. Les étudiants reçoivent également un aperçu du cadre juridique régissant les droits linguistiques et les services juridiques en français. May not be held with LAW 3980 when titled "Français juridique - droit public". This course is restricted to 2nd and 3rd year J.D. students. Prerequisite: LAW 1542 or written consent of the Associate Dean (J.D.).

Law 3374 Français juridique - droit privé 3 cr +3.0  
Language of instruction: French. Par le biais d'exposés magistraux, d'exercices et de simulations axés sur la pratique, ce cours initie les étudiants bilingues à certains sujets de droit privé essentiels à l'amélioration de l'accès à la justice en français des justiciables francophones au Manitoba et ailleurs au Canada. Des praticiens experts donnent, en français, des conférences sur les principaux aspects de fond et de procédure de sujets liés au droit des affaires, au droit du travail, au droit immobilier, aux testaments et successions, aux litiges civils et au droit fiscal, tout en mettant en évidence la terminologie juridique en français pertinente. La maîtrise et l'utilisation efficace de cette terminologie sont évaluées par des travaux écrits et par la participation des étudiants à des simulations et exercices oraux. Les étudiants reçoivent également un aperçu des différences de terminologie juridique en français entre les deux principaux régimes de droit privé au Canada : la common law et le droit civil du Québec. May not be held with LAW 3980 when titled "Français juridique - droit privé". This course is restricted to 2nd and 3rd year J.D. students. Prerequisite: LAW 1542 or written consent of the Associate Dean (J.D.).

LAW 3376 Droits linguistiques 3 cr +3.0  
Language of instruction: French. Le cours aborde les différents aspects juridiques et politiques de la protection par l'État de sa diversité linguistique. Après une introduction mettant l'accent sur le contexte social, politique et culturel des droits linguistiques au Canada et au Manitoba, le cours examinera le droit constitutionnel et législatif applicable au niveau fédéral et dans les provinces canadiennes, les droits linguistiques autochtones, et la protection des droits

linguistiques en droit international et ailleurs au monde. Le cours se conclura par un examen des visions des communautés de langues officielles en situation minoritaire (et tout particulièrement, la communauté franco-manitobaine) face à leur avenir. May not be held with the former LAW 3366 or LAW 3980 when titled "Droits linguistiques".

LAW 3378 Passeport du droit en Français 1 cr +1.0  
Language of instruction: French. Le Passeport du droit en français 3 donne aux étudiants de troisième année du programme JD qui participent à la Concentration d'accès à la justice en français l'occasion d'améliorer leur compétence langagière en français, passant d'un bilinguisme réceptif (compréhension orale et écrite) à un bilinguisme actif (expression orale et écrite). Le cours est organisé en une série de colloques informels menés en français par le chargé d'enseignement, des invités et des étudiants de deuxième ou troisième année à propos de thèmes reliés à la pratique bilingue du droit dans l'Ouest canadien, l'accès à la justice en français, l'acquisition de compétences culturelles et divers domaines du droit. Les étudiants prennent part aux discussions en classe et rédigent des textes de réflexion. Les étudiants de troisième année rédigent un éditorial, blogue ou brochure présentant des renseignements juridiques et le présentent dans le cadre d'un atelier. Le Passeport devrait permettre aux étudiants bilingues de tisser des liens favorisant la prestation de services juridiques aux communautés francophones en situation minoritaire. Ce cours est noté sur une formule réussite/échec. This course is graded on a pass/fail basis. Prerequisite: LAW 2378.

### **NET CHANGE IN CREDIT HOURS: +23.0**

Modifications:

LAW 1540 Legal Methods 5 cr 0.0  
An introduction to legal research and writing skills and oral advocacy. Students participating in the Access to Justice in French Concentration must instead take LAW 1542 Méthodes juridiques, a bilingual course substantively equivalent to LAW 1540. Students who do not complete this course will not be eligible for the Concentration. May not be held with LAW 1542. This course is graded on a pass/fail basis.

LAW 2640 Family Law 3 cr 0.0  
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. May not be held with LAW 2642.

LAW 2650 Introduction to Advocacy 3 cr 0.0  
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. May not be held with LAW 2652. This course is graded on a pass/fail basis.

LAW 2680 Legal Negotiation 3 cr 0.0  
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. May not be held with LAW 2682.

## SECTION 6: Program Requirements

### 6.1 Juris Doctor, J.D. Degree Requirements

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:<sup>1</sup> **Additional requirements for students participating in the Access to Justice in French Concentration are described below under “Concentrations”.**

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 <sup>2</sup>	Legal Methods	5
LAW 1530	Legal System	2
<b>Total credit hours</b>		<b>32<sup>3</sup></b>

<sup>1</sup> Students participating in the Access to Justice in French Concentration must take LAW 1378 Passeport du droit en français 1 1cr in Year One of their program, LAW 2378 Passeport du droit en français 2 1cr in Year Two of their program, and LAW 3378 Passeport du droit en français 3 1cr in Year Three of their program. Together these courses constitute an ongoing course over the 6 terms of the J.D. program (equivalent to 0.5 cr per term) in which students in all three years learn together. Each 1cr is graded on a pass/fail basis at the end of each year. Students are expected to complete all three 1cr Passeport du droit en français for a total of 3 credits in lieu of a 3cr elective in Year Three.

<sup>2</sup> Students participating in the Access to Justice in French Concentration must instead take LAW 1542 Méthodes juridiques 5 cr, a bilingual course substantively equivalent to LAW 1540. Students who do not complete this course will not be eligible for the Concentration.

<sup>3</sup> Students participating in the Access to Justice in French Concentration will earn 33 credit hours in Year One because they are required to take LAW 1378 Passeport du droit en français 1 1cr. Students are expected to complete all three 1cr Passeport du droit en français for a total of 3 credits in lieu of a 3cr elective in Year Three.

#### 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). **Additional requirements for students participating in the Access to Justice in French Concentration are described below under “Concentrations”.**

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 <sup>4</sup>	3
LAW 2680	Legal Negotiation <sup>5</sup>	3
<b>Total Credit Hours</b>		<b>15<sup>6</sup></b>

<sup>4</sup> Students participating in the Access to Justice in French Concentration must instead take LAW 2652 Introduction à la plaidoirie 3cr, a bilingual course substantively equivalent to LAW 2650.

<sup>5</sup> Students participating in the Access to Justice in French Concentration must instead take LAW 2682 Négociation juridique 3cr, a bilingual course substantively equivalent to LAW 2680.

<sup>6</sup> Students participating in the Access to Justice in French Concentration will earn 16 mandatory credits in Year Two because they are required to take LAW 2378 Passeport du droit en français 2 1cr. They will earn a total of 31 credits in Year Two.

#### List A: Writing Requirement Courses

Course No.	Mandatory Courses	Credit Hours
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, Youth 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 3334	Global and Domestic Governance of Tainted Finance	3
LAW 3336	Law and Popular Culture	3
LAW 3338	Sentencing	3
LAW 3346	Access to Justice	3
LAW 3352	Sexual Expression, Conduct and Work in Canada	3
LAW 3362	Animals and the Law	3
LAW 3364	Law and Resistance	3

LAW 3366	Droits linguistiques	3
LAW 3370	The Legislative Process	3
<b>LAW 3376</b>	<b>Droits linguistiques</b>	<b>3</b>
LAW 3380	Issues in Law and Bio Ethics	3
LAW 3394	Internet and E-Commerce Law	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)**

<b>LAW 2378</b>	<b>Passeport du droit en français 2</b>	<b>1</b>
LAW 2400	Wills and Succession	3
LAW 2490	Trusts	3
LAW 2640	Family Law	3
<b>LAW 2642</b>	<b>Droit de la famille</b>	<b>3</b>
LAW 2672	Civil Procedure	3
LAW 2700	Income Tax Law and Policy	3
LAW 3016	Corporations II	3
LAW 3026	Trademarks and Patents	3
LAW 3050	Commercial Law	3
LAW 3212	Immigration Law	3
LAW 3022	Insurance Law	3
LAW 3220	Competitions B	3
LAW 3250	Current Legal Problems D	3
LAW 3330	Employment Law	3
LAW 3342	Agency and Partnership	3
LAW 3348	Bankruptcy and Insolvency	3
LAW 3354	Moot Researcher	3
<b>LAW 3372</b>	<b>Français juridique-droit public</b>	<b>3</b>
<b>LAW 3374</b>	<b>Français juridique-droit privé</b>	<b>3</b>
<b>LAW 3378</b>	<b>Passeport du droit en français 3</b>	<b>1</b>
LAW 3392	Securities Law	3

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 3824	Scholarly Publications	3
LAW 3826	Advanced 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). **Additional requirements for students participating in the Access to Justice in French Concentration are described below under "Concentrations".**

Compulsory Course		Credit Hours
LAW 3024	The Legal Profession and Professional Responsibility	3 <sup>7</sup>

**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 3344	Internships	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 Taxation	3
LAW 3520	Taxation of Trusts & Estates	3
LAW 3980	Current Legal Problems B	3
LAW 3990	Externship	12

<sup>7</sup> Students participating in the Access to Justice in French Concentration will earn 4 mandatory credits in Year Three because they are required to take LAW 3378 Passeport du droit en français 3 1cr. They will earn a total of 28 credits in Year Three.

Students admitted prior to September 2018, please refer to the Academic Calendar for the year you were admitted.

## 6.2 Access to Justice in French Concentration

This section describes the requirements to complete the Access to Justice in French Concentration as part of the J.D. program.

The Access to Justice in French Concentration provides J.D. students with the basic skills required to provide legal services to clients in both official languages with a view to increasing the access to justice of French-language communities in Manitoba and other majority English-speaking Canadian provinces and territories.

As part of the courses required to earn their J.D., the following courses are prescribed for students seeking to earn the Access to Justice in French Concentration (LAW 1542 Méthodes juridiques, LAW 2682 Négociation juridique and LAW 2652 Introduction à la plaidoirie are bilingual equivalents of and taken instead of LAW 1540 Legal Methods, LAW 2680 Legal Negotiation and LAW 2650 Introduction to Advocacy, respectively). Students must take a total of 26 credits from among the possible 38 credits of Concentration courses below.

Course No.	Course Title	Credit Hours
<b>Year 1</b>		
LAW 1378	Passeport du droit en français 1	1
LAW 1542	Méthodes juridiques	5
	<b>Total credit hours</b>	<b>6</b>
<b>Year 2</b>		
LAW 2378	Passeport du droit en français 2	1
LAW 2652	Introduction à la plaidoirie	3
LAW 2682	Négociation juridique	3
	<b>Total credit hours</b>	<b>7</b>
<b>Year 3</b>		
LAW 3378	Passeport du droit en français 3	1
	<b>Total credit hours</b>	<b>1</b>
<b>Years 2-3</b>		
<b>Group 1 – Legal Terminology</b>		
Select one of the following:		<b>3</b>
LAW 3372	Français juridique – droit public	
LAW 3374	Français juridique – droit privé	
<b>Group 2 – Electives</b>		
Select three of the following:		<b>9</b>

LAW 2642	Droit de la famille	
LAW 3030	Research Paper B <sup>8</sup>	
LAW 3220	Competitions B – Laskin Moot <sup>9</sup>	
LAW 3220	Competitions B – Bastarache Moot	
LAW 3344	Internships	
LAW 3372	Français juridique – droit public <sup>10</sup>	
LAW 3374	Français juridique – droit privé <sup>10</sup>	
LAW 3376	Droits linguistiques	
<b>Total credit hours</b>		<b>26</b>

<sup>8</sup> Students must write their research paper in French under the supervision of a bilingual faculty member.

<sup>9</sup> This course counts towards the Concentration only for students mooted in French or otherwise completing a sufficient proportion of their research or written and oral advocacy work in French.

<sup>10</sup> This course may not be taken as a Group 2 Elective if taken as a Group 1 Legal Terminology course.

**Report of the Senate Committee on Instruction and Evaluation RE: Revised Academic Progression Policy, Bachelor of Nursing, College of Nursing**

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**Preamble:**

1. The terms of reference for the Senate Committee on Instruction and Evaluation (SCIE) can be found at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/502.html](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/502.html).
2. At its meeting on October 14, 2021 the committee considered a proposal from the College of Nursing regarding revisions to the Academic Progression Policy for the Bachelor of Nursing for Clinical and Skills courses.

**Observations:**

1. The College is proposing to revise the Bachelor of Nursing academic regulations related to academic progression to include a process for Clinical and Skills courses, which are Pass/Fail courses, to better align with progression requirements for didactic courses.
2. Currently students are placed on Academic Warning the first time a student's Term Grade Point Average drops below 2.5. The College is proposing that a student who receives a grade of "Fail" for a first time in a Clinical or Skills course would also be placed on Academic Warning.
3. Currently students are placed on Academic Probation the second time their Term Grade Point Average drops below 2.5. The College is proposing that students would also be placed on Academic Probation and a formal remediation plan would be required when they receive a grade of "Fail" in a Clinical or Skills course and they have previously had a Term Grade Point Average below 2.5 in one previous term, or their Term Grade Point Average drops below 2.5 and they have a "Fail" in a Clinical or Skills course in a previous term.
4. Currently students are placed on Academic Suspension the third time a student's Term Grade Point Average drops below 2.5. The College is proposing that students would be placed on Academic Suspension when their Term Grade Point Average drops below 2.5 a third time, or they receive a grade of "Fail" in a Clinical or Skills course and have previously had a Term Grade Point Average below 2.5 in two previous terms, or their Term Grade Point Average drops below 2.5 for a second time and the student had a "Fail" in a Clinical or Skills course in an additional previous term.
5. Currently students are Required to Withdraw if they have returned from Academic Suspension and their Term Grade Point Average drops below 2.5 a fourth time. The College is proposing that students who have been permitted to return from Suspension and whose TGPA drops below 2.5 or receives a Grade of Fail in a Clinical or Skills course a fourth time would be Required to Withdraw.

**Recommendation**

The Senate Committee on Instruction and Evaluation recommends:

***THAT Senate approve the proposed revisions to the Academic Progression Policy for the Bachelor of Nursing, College of Nursing, effective September 1, 2022.***

Respectfully submitted,

Dr. Mark Torchia, Chair  
Senate Committee on Instruction and Evaluation

Comments of the Senate Executive Committee:  
The Senate Executive Committee Endorses the Report to Senate.

Date: September 29, 2021

To: Dr. Mark Torchia, Chair, Senate Committee on Instruction & Evaluation

From: Dr. Netha Dyck, Dean, College of Nursing, Rady Faculty of Health Sciences

**Re: Proposed Changes to the Academic Progression Policy**

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The College of Nursing is seeking approval of the proposed changes to the Bachelor of Nursing program Academic Progression Policy by the Senate Committee on Instruction and Evaluation.

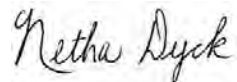
The proposed changes include a specific progression process for Pass/Fail courses, which are primarily practice based, and align them with the process described for the academic courses.

The proposed changes to the policy were approved by the College of Nursing Executive Council on September 14, 2021 and by College Council on September 28, 2021.

Please find attached a description of the proposed changes to the policy.

Thank you for your consideration of the Academic Progression Policy changes.

Sincerely,



Dean, College of Nursing



**ACADEMIC PROGRESSION POLICY**

**COLLEGE OF NURSING BACHELOR OF NURSING PROGRAM**

<b>CURRENT 20/21 ACADEMIC PROGRESSION POLICY</b>	<b>PROPOSED REVISION</b>
<p><i>Academic Progression</i>            Students are required to obtain a minimum of “C” grade (2.0) in every course and a pass in a clinical course, and a 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.</p> <p>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 work, with the assessment being based on the resulting Term Grade Point Average (TGPA) in those courses.</p> <p>The final term of the Bachelor of Nursing 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.{1,2}</p>	<p>No change</p>
<p><i>Good Academic Standing:</i> A student with a term grade point average (TGPA) of 2.5 or higher is in Good Academic Standing.</p>	<p>No change</p>
<p><i>Academic Warning:</i> The first time a student’s TGPA drops below 2.5, the student will receive an Academic Warning.</p>	<p><i>Academic Warning:</i>            The first time a student’s TGPA drops below 2.5  <b>OR the student receives a grade of “Fail” in a Clinical or Skills course a first time.</b> {1,2}</p>
<p><i>Academic Probation:</i> The second time that a student’s TGPA drops below 2.5, the student will be placed on Academic Probation. A formal remediation plan will be mandatory for students on academic probation. (1,2)</p>	<p><i>Academic Probation:</i>            A formal remediation plan will be mandatory when:             The Student’s TGPA is below 2.5 the second time  <b>OR</b>  <b>The student received a grade of “Fail” in a Clinical or Skills course and the student has previously had a TGPA below 2.5 in one previous term,</b>  <b>OR</b></p>

	<i>The student's TGPA drops below 2.5 and the student has a "Fail" in a Clinical or Skills course a previous term. {1,2}</i>
<i>Academic Suspension:</i> 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.	<p><i>Academic Suspension:</i>  <i>A student will be placed on Suspension if:</i>  <i>The student's TGPA drops below 2.5 a third time</i>  OR  <i>The student receives a grade of "Fail" In a Clinical or Skills course and has previously had a TGPA below 2.5 in 2 previous terms,</i>  OR  <i>The student's TGPA drops below 2.5 for a second time and the student has a "Fail" in a Clinical or Skills course an additional previous term. {1,2}</i></p> <p>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.</p>
<i>Required to Withdraw:</i> 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. {1,2}	<p><i>Required to Withdraw:</i>  Students who have been permitted to return from Suspension and whose TGPA drops below 2.5 or receives a Grade of Fail in a Clinical or Skills course a fourth time will be Required to Withdraw. Students who are Required to Withdraw are ineligible for re-admission to the College of Nursing {1,2}</p>

**References**

1. Rady Faculty College of Nursing. (2021, September). *Bachelor of Nursing Program Academic Handbook Year 2020/2021*. Winnipeg: University of Manitoba.
2. University of Manitoba. (2021, September 10). *University of Manitoba Calendar 2021/2022 v.3*. Retrieved from University of Manitoba: <https://catalog.umanitoba.ca/undergraduate-studies/health-sciences/nursing/nursing-bn/#facultyrequirementstext>