AGENDA

I MATTERS TO BE CONSIDERED IN CLOSED SESSION

1. Report of the Senate Committee on Honorary Degrees

The report will be distributed to members of Senate at the meeting. Documentation will be available for examination by eligible members of Senate in the University Secretariat the day preceding the Senate meeting.

The Executive Committee recommends that the report be considered in closed session at the beginning of the Senate meeting.

II MATTERS RECOMMENDED FOR CONCURRENCE WITHOUT DEBATE


2. Report of the Senate Committee on Curriculum and Course Changes: Part A Page 24

III MATTERS FORWARDED FOR INFORMATION

1. Equity Services Office Annual Report 1999 Page 149

2. Correspondence from University Secretary re Honours Page 180

IV REPORT OF THE PRESIDENT

V QUESTION PERIOD

Senators are reminded that questions shall normally be submitted in writing to the University Secretary no later than 10:00 a.m. of the day preceding the meeting.

VI CONSIDERATION OF THE MINUTES OF THE MEETING OF 3 NOVEMBER 1999

VII BUSINESS ARISING FROM THE MINUTES

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

1. Report of the Executive Committee of Senate Page 182
2. Report of the Senate Planning and Priorities Committee

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

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

1. Report of the Senate Committee on Admission Appeals Page 183

2. Report of the Senate Committee on Admissions on a Request from the Faculty of Nursing to Amend its Admission Criteria Page 184

3. Report of the Senate Committee on Nominations

This report will be available at the meeting.

4. Report of the Senate Committee on Rules and Procedures on Proposed Revisions to Faculty/School Council By-Laws Page 188

5. a) Report of the Senate Committee on Curriculum and Course Changes: Part B Page 197

b) Report of the Senate Planning and Priorities Committee Page 215

6. Report of the Faculty Council of Arts on a Proposal for Interdisciplinary Degree Programmes in Global Political Economy Page 218

a) Report of the Senate Committee on Curriculum and Course Changes Page 224

b) Report of the Senate Planning and Priorities Committee Page 227

7. Report of the Faculty Council of Arts on the Proposed Advanced Major and Honours Programmes in Women's Studies Page 228

a) Report of the Senate Committee on Curriculum and Course Changes Page 232
b) Report of the Senate Planning and Priorities Committee

8. Report of the Faculty Council of Science on a Proposal for B.Sc. Programmes in the Department of Psychology

a) Report of the Senate Committee on Curriculum and Course Changes

b) Report of the Senate Planning and Priorities Committee

c) Correspondence from the Council on Post-Secondary Education

X ADDITIONAL BUSINESS

XI ADJOURNMENT

/sgp
Date: November 4, 1999

Memo To: Ms. B. Sawicki, University Secretariat

From: Richard Levin, Director Student Records

Re: Proposed Academic Schedule for 2000-2001

Please find attached the Proposed Academic Schedule for 2000-2001 as reviewed by each Faculty and School, the Director of Admissions and Rabbi Stern for distribution to Senate Executive.

RL: gcr
att.

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Comments of the Executive Committee:
The Executive Committee endorses the schedule to Senate.
PROPOSED ACADEMIC SCHEDULE for 2000-2001

March 2000
March 1 Wednesday Last date for receipt of applications to Environmental Design, Interior Design, Medical Rehabilitation Science, Physical Therapy degree, and Agriculture (undergraduate students), Nursing (two-year baccalaureate program for RN's), Pharmacy and Social Work. [See note 1 on final date]
Last date for receipt of applications in the Faculty of Graduate Studies for Canadian applicants applying for May 2000
Last date for the receipt of applications to the two year After Degree Bachelor of Education program including the supplementary application form, the statement of interest in teaching and official transcript.
March 12-17 Monday - Friday Mid-Term Break for First & Second Year Students

April 2000
April 3 Monday Last date for receipt of applications for admission (including complete and official documentation) to Spring 2000 Undergraduate Summer and Summer Day courses.
Last date for receipt of applications for admission to the MSc Baccalaureate Certificate in Education for 2000 Undergraduate Summer and Summer Evening Courses.
NOTE: Consult the 2000 Summer Session Calendar regarding deadline dates for admission to University I and II, Continuing Education (General Studies) for courses offered during Intersession, Summer Evening and Summer Day.
Cardiovascular Clinical Education experiences for Second Year Physical Therapy students.
Last date for receipt of reports on Thesis/Practices and the corrected copies of the Thesis/Practices and comprehensive examinations for candidates for graduate degrees be completed by May 2000.
April 7 Saturday Language testing tests for graduate students.
April 17 Monday Summer Fieldwork begins for Second Year Physical Therapy Student
Basic Fieldwork I commences for First Year Occupational Therapy Students

April 21 Good Friday. University closed. No classes or examinations.
April 28 Friday. Last date for registration in Intersession and Summer Evening Courses without late registration fee. Last date to register and pay fees for Challenge for Credit where the final examination is held during the Intersession/Summer term. Summer Evening exam series in June.

May 2000
May 1 Monday Last date for receipt of applications for admission to the Master's Degree Program in Business Administration.
Last date for receipt of applications in the Faculty of Graduate Studies for Canadian applicants applying for Summer 2000
Last date for receipt of applications for final consideration for the Integrated Human Ecology Education program, the Integrated Music Education program, Management, Physical Education and Recreation Studies and for clinical placements in Music, Fine Arts and Engineering Co-op internal and external transfers to Engineering in the 2000-2001 Regular Session. (See note 2 on final date)
Recommended date for submission of undergraduate applications to University I (see also April 21, 2000)
Deadline for receipt of applications for University I, Arts, Science and Continuing Education (General Division) from international students applying from outside Canada and the United States.
Last date for application for June supplemental examinations in Diploma Program in Agriculture.

Summer Internship commences for Second and Third Year Physical Therapy Students.
Summer Fieldwork begins for Third Year Occupational Therapy Students.
Classes begin in Spring Intersession and Summer Evening.
May 1 - 4 Monday - Thursday Auditions for prospective Bachelor of Music Degree Students.
May 6 Friday Medicine Four clinical clerkship classes.
May 6 Saturday Annual Thesis/Project Presentation in the Faculty of Social Work.
May 5 - 10 Tuesday - Wednesday Medical Council of Canada Examinations.
May 12 Friday Basic Fieldwork I ends for First Year Occupational Therapy Students.
No classes or examinations.
May 25 Friday Summer Fieldwork I ends for Second Year Occupational Therapy Student.
May 21 - June 6 Monday - Thursday One Hundred and Twenty First Annual Convention.

June 2000
June 1 Thursday. Last date for receipt of applications for supplemental examinations in Third Year Medicine (Rehabilitation).
Experiential examinations in Diploma Program in Agriculture.
Last date for receipt of applications for permission to the PCC Baccalaureate Certificate in Education program for Summer 2000 Summer Day Courses.
Last date for receipt of official documentation (e.g. transcripts) for applicants to Dual Degree/Third Year Regular Session.
June 2 Friday Deadline date for receipt of all complete and official university transcripts requested by the Enrollment Services/Admissions Office for the Faculty of Social Work (Joint Degree Education - Third Year Distinct Education Students - See June 8).
Local form of supplemental examinations to be held for First and Second Year and Physical Therapy degree completion programs of Medical Rehabilitation.
Last date for submission of all official transcripts for any course work completed in the 1999-2000 academic year from applicants to the 2000-2001 After Degree B.Ed. programs.
June 7 Wednesday Last date to register and pay fees for Challenge for Credit where the final examinations are held during the Summer Evening exam series in August.
June 8 Thursday Deadline for submission of complete and official university transcripts requested by the Enrollment Services/Admissions Office for the Faculty of Social Work: Health Sciences, Medical Rehabilitation, Environmental Design, Interdisciplinary Design and Management applicants whose qualifying year is complete (see also June 29).
June 9 Friday Summer Fieldwork II ends for Third Year Occupational Therapy Students.
June 19 Monday Deadline for receipt by the Faculty of Graduate Studies of Annual Progress Reports for Masters' and Ph.D. students.
Last date for receipt of applications in the Faculty of Graduate Studies for international students applying for January 2001.
June 23 Friday Classes end in Spring Intersession.
June 27 Tuesday Exams and Spring Intersession.
June 30 Friday Last day for registration in Summer Day courses without Late Registration Fee.

Last date for receipt of applications for admission to the Agriculture Diploma Program.

July 2000

July 3 Monday HOLIDAY IN LIEU OF CANADA DAY. University closed. No classes or examinations.

July 4 Tuesday Last date for receipt of undergraduate applications by mail for admission to University 1, the Continuing Education Division (General Studies) and internal and external transfers to the Faculty of Arts for 2000-2001 Regular Session. (See note below and note 1 on final page)

Deadline for receipt of applications for University I, Arts, Science and Continuing Education Division (General Studies) from non-international students residing within Canada and the United States.

NOTE: Applications to the Faculty of Arts will be accepted in person with complete official documentation up to August 3. While applications for admission to University I and Continuing Education Division (General Studies) with complete official documentation will continue to be received through August 15, assessment of possible transfer credit may not be completed prior to registration.

Last date for receipt of applications for final consideration for internal and external transfers to the Faculties of Agricultural and Food Sciences (Degree), Human Ecology, Business year program only and Science for the 2000-2001 Regular Session.

NOTE: Applications to transfer to the Faculty of Science after July 4 may be considered on an individual basis, if they are accompanied by complete official documentation.

NOTE: Application to the Faculties of Arts & Science from students applying as Visiting or Special Students, with complete documentation, will continue to be accepted until September 1.

NOTE: Manitoba high school applicants who apply between May 30 and July 4 must make their own arrangements for high school records to be delivered to the Enrollment Services/Admissions Office by July 4.

Last date for receipt of applications for fall supplemental examinations in those faculties and schools offering thesis except Medical Rehabilitation. Arrangements for writing at approved Off Campus Centres must be completed by this date.

Last date for receipt of applications in the Faculty of Graduate Studies for Canadian applicants applying for September 2000.

Last date to register and pay fees for Challenge for Credit, where the final examinations are held during the Summer Day exam series in August.

Classes begin in Summer Day.

July 10 Monday Last date for the receipt of registration forms by mail from non-Canadians (except new students in the Continuing Education Division (General Studies)) wishing to take Distance Education Courses commencing in September. (See note 1 on final page)

Last date for receipt in Graduate Studies Office of Ph.D. Theses (for distribution) from students expecting to graduate in October.

July 13 Thursday Last day for receipt of final and official documentation from applicants to undergraduate programs for which May 1 and July 4 were the deadlines for making application (except the undergraduate programs included in June 3 above and in August 31 following).

July 14 Friday Last date for distribution of Masters’ theses/practice theses (examinations) from students expecting to graduate in October.

July 17 Monday Last date for receipt of applications for admission to the Agriculture Diploma Program.

July 28 Friday Deadline for submission of complete and official transcripts from Management applicants whose qualifying year is now complete.

July 31 - August 4 Monday - Friday Supplemental exams in Dentistry and Dental Hygiene.

August 2000

August 3 Thursday Classes end in Summer Evening.

Last date for receipt by the Student Records Office of Graduation Application Forms from students expecting to graduate in October.

Last date for receipt of applications for admission to the Post Graduate Certificate in Education program for the 2000-2001 Regular Session.

Last date for in person applications for admission to the Faculty of Arts with complete official documentation.

August 6 Saturday Exams end in Summer Evening.

August 7 Monday CIVIC HOLIDAY. University closed. No classes or examinations.

August 8 Tuesday First Term begins in Fourth Year Dentistry.

August 14 Monday First Term begins in Third Year Dentistry.

August 17 Thursday In-Person Registration for Graduate Students in Medicine and Dentistry.

First Term begins in First and Second Year Dental Hygiene.

August 21 Monday First Term begins in First and Second Year Dentistry.

Orientation begins for First Year Medicine.

August 23 Wednesday Classes end in Summer Day.

EQUATIAL Exercises for Faculty of Medicine. B.Sc.(Med.) Presentations begin in Faculty of Medicine.

August 24 - 25 Thursday - Friday In-Person Registration in Medicine.

August 26 Saturday Exams end in Summer Day.

August 28 Monday - Registration and first day of classes in First, Second and Third Year Medical Rehabilitation.

Classes begin in First, Second and Third Year Medicine.

Classes begin in Fourth Year Pharmacy.

Last date for receipt of reports on Theses/Practice (and the corrected copy of the Thesis/Practice) and comprehensive examinations for candidates for graduate degrees to be awarded in October of 2000.

August 28 Tuesday Last day for registration and payment in Medicine.

August 31 Thursday Last date for in-person undergraduate application for admission to University I and Continuing Education Division (General Studies) with complete official documentation.

September 2000

September 1 Friday Last date for application to the Faculty of Science (with complete documentation) for the visiting or Special Student category.

Last day to register and pay fees, without penalty, for the Faculties of Law and Social Work.

September 4 Monday, LABOUR DAY. University closed. No classes or examinations.

September 6 Tuesday Classes begin in Social Work.

Field instruction begins in Second and Third Year Social Work.

Classes begin in Law.

Registration in Law not permitted after this date without the permission of the Dean.

Basic Fieldwork II begins for second year Occupational Therapy students.

September 5 - 6 Tuesday - Wednesday University I Orientation. Note University I students are reminded that these orientation sessions are part of their academic program and attendance is required.
November 2000

September 6 Wednesday Last day to register and pay fees without penalty for all programs except the Diploma Program in Agriculture (September 16). Law and Social Work (September 1).

Last date for registration and fee payment without penalty for students wishing to take Distance Education courses commencing in September. For further details, please consult the 2000-2001 Distance Education Program Guide.

September 7 Thursday Classes begin in most Faculties and Schools (including evening classes) except Education courses in the Bachelor of Education (see registration guide).

September 7 - 10 Thursday - Wednesday Period for late registration and registration revisions in all programs except Diploma Program in Agriculture and Education courses in the Bachelor of Education (See registration guide). Financial penalties are assessed on all late registrations during this period.

September 8 Friday Language testing begins for graduate students.

September 15 Friday Orientation in Diploma Program in Agriculture.

Last date to register in Diploma Program in Agriculture without financial penalty.

September 16 Monday Classes begin in Diploma Program in Agriculture.

September 20 Monday Registration Revisions and Late Registration in courses other than those offered in on-campus term only, including Change of Credit, are permitted after this date except in Diploma Program in Agriculture (See September 27) and Education courses in the Bachelor of Education (see registration guide).

First term and full courses dropped after this date are recorded as Voluntary Withdrawals. (See refund schedule for financial implications.)

Last date for registration revisions in Law

September 22 Friday Final date for receipt of Deferred Fee Payments. Registrations for all courses are cancelled for any student having an unpaid balance after this date.

September 27 Monday Last date for registration revisions in full term elective in Diploma Program in Agriculture. First term and full courses dropped after this date are recorded as Voluntary Withdrawals. (See refund schedule for financial implications.)

September 29 Friday Medicine II (Link Period) ends.

Basic Fieldwork I. Ends for Second Year Occupational Therapy Students.

October 2000

October 2 Monday Last date for receipt of Internet and external transfer applications for admission (including complete documentation) to the Faculty of Arts from applicants wishing to take Distance Education courses. Deadline for registration in Agriculture, Basic Sciences, Social Work, and Business and Economics programs in January 2001. NO NOTE: Applications for admission to the Bachelor of Fine Arts or in the College of Education in the Bachelor of Education (see registration guide) are not permitted after this date.

Last date for application to write examinations at a location other than the University of Manitoba in courses ending in December through the Distance Education Program by Independent Study. Group-based Essay or Not Based Study.

October 2 Monday Clinical Clerkship in Medicine begins.

October 8 Monday Thanksgiving, University closed. No classes or examinations.

October 17 Tuesday Evening of Excellence

October 19 Wednesday Financial Aid and Awards - Entrance Scholarship Presentation and Reception.

October 19 Thursday Thirty-Third Annual P.E.I. Convention.

October 27 Friday First Term lectures and for Fourth Year Pharmacy.

Last date for receipt in Graduate Studies Office of Ph.D. Theses (for distribution) from graduate students who expect to receive their degrees in February.

October 20 - November 3 Monday - Friday Examination period for first term of Fourth Year Pharmacy.
February 9 Friday Second Term expeimental locations end in Fourth Year Pharmacy.

Advanced Fieldwork begins for Third Year Occupational Therapy students.

February 12 Monday Second Term lectures begin in Fourth Year Pharmacy.

Last date for receipt of applications for admission to the Faculty-based Ph.D. Program in Education.

February 14 - 16 Monday - Friday MID-TERM BREAK.
No classes or examinations, except for Medical, Fourth Year Pharmacy, Third Year Physical Therapy and Second Year Occupational Therapy students.

February 19 Monday Last date for distribution of Master's Thesis/Practicum work to the Examining Committee from students expecting to graduate in May 2001.

Musculoskeletal Clinical Education begins for Second Year Physical Therapy students.

February 19 - February 23 Monday - Friday Mid-Term Break for Second Year Occupational Therapy.

February 26 Monday Intermediate Fieldwork begins for Second Year Occupational Therapy students.

February 26 - March 2 Monday - Friday Mid-Term Break for Third Year Physical Therapy.

February 27 Tuesday Last date for receipt of applications for Master's Program in Nursing.

March 2001

March 1 Thursday Last date for receipt of applications to Environmental Design, Interior Design, Medical Rehabilitation (including Physical Therapy degree completion students), Nursing, two-year baccalaureate program for R.N., Pharmacy and Social Work. (See note on first page)

Last date for the receipt of applications to the two-year After-Degree Bachelor of Education Program from candidates holding a degree including the supplementary application form, the statement of interest in teaching and official transcript.

Last date for receipt of applications in the Faculty of Graduate Studies in Canadian applicants applying for May 2001.

March 5 - 6 Monday Last date for Voluntary Withdrawal without academic penalty from full courses and second term half-course for students in the Diploma Program in Agriculture. (See Refund Schedules for financial implications).

Directed Studies block begins for Third Year Physical Therapy students.

March 15 Thursday Last date for Voluntary Withdrawal without academic penalty from full courses and second term half-courses for students in the Diploma Program in Agriculture. (See Refund Schedules for financial implications). Note that some courses have irregular voluntary withdrawal and refund schedules. Please consult the faculty chapters of the Registration Guide.

March 12 - 18 Monday - Friday Mid-Term Break for First and Second Year Medicinal.

March 25 Friday Last day of lectures in Diploma Program in Agriculture.

* Last day of lectures in Third Year Pharmacy.

March 20 - March 26 Monday - Friday Examination period for Third Year Pharmacy.

March 26 - April 2 Monday - Monday Final examinations in Diploma Program in Agriculture.

March 31 Saturday Language reading tests for graduate students.

April 2001

April 2 Monday Last date for receipt of applications for Graduate students (and the corrected copies of the Thesis/Practicum) and comprehensive examinations for candidates for graduate degrees to be awarded in May 2001.

Last date for receipt of applications from external and external transfer students (including all complete and official documentation) to the Faculties of Arts and Science for 2001 Intersession, Summer Evening and Summer Day courses. See the Registration Guide for dates and information about transferring from University I to Arts and Science.

Last date for receipt of applications for admission to the First Baccalaureate Certificate in Education program for the 2001 Intersession and Summer Evening courses.

NOTE: Consult the 2001 Summer Session Calendar for more details.

April 2 - 9 Tuesday - Friday Community Pharmacy practice for Third Year Pharmacy.

April 6 Friday - Final lectures in all Faculties and Schools, except Dental hygiene, Dentistry, Medicine and courses in the Bachelor of Education (see registration guide) and Fourth Year Pharmacy.

Intermediate Fieldwork ends for Second Year Occupational Therapy students.

April 8 Monday - Examinations begin in Dental Hygiene and Law.

Field instruction ends in Second and Third Year Social Work.

April 10 - 25 Tuesday - Wednesday Examination period - Students are reminded that they must remain available until all examinations and test obligations have been fulfilled.

April 12 Thursday * Last day of lectures in Fourth Year Dentistry.

* Last day of lectures in Fourth Year Pharmacy.

April 15 GOOD FRIDAY. University closed. No classes or examinations.

April 16 Monday - Basic Fieldwork I begins for First Year Occupational Therapy students.

* Examinations begin in Fourth Year Pharmacy.

Summer Fieldwork I begins for Second Year Occupational Therapy students.

April 19 - 23 Monday to Monday Examination period for first 2001 Examination period for fourth year Dentistry.

* Last day of lectures in First, Second and Third Year Dentistry.

April 26 Friday Graduation Ceremony for School of Agriculture.

April 26 Wednesday End of Examinations and Second Term Fieldwork for Faculties and Schools where examinations commenced April 6.

Term ends for First Year Occupational & Physical Therapy students.

April 30 Monday Summer Fieldwork II begins in Third Year Occupational Therapy.

April 30 - May 11 Monday to Friday Examination period for First, Second and Third Year Dentistry.

May 2001

May 1 Tuesday Recommended date for submission of undergraduate applications to University I.

Last date to register and pay fees for Challenge where the final examinations are held during the June term.

Last date for applications for June supplemental examinations in Diploma Program in Agriculture.

Summer Internships begin for Second & Third Year Physical Therapy students.

Last date for receipt of applications in the Faculty of Graduate Studies for Canadian applicants applying for July 2001.

Last date for registration in intersession and Summer Evening courses without late registration fee.

Classes begin in Intersession and Summer Evenings Session.
December 9 Saturday Examinations begin in Law.

December 11-15 Monday to Friday. Examination period for Dentistry and Dental Hygiene.

December 12 Tuesday Last date for application (in-person) for admission to University of the Continuing Education Division for second term credit courses. Applicants must provide complete official documentation at the time of application.

December 18 Friday Medical Rehabilitation classes (All Years).

First Term exponential rotations and in Fourth Year Pharmacy.

*Last day of lectures in Medicine (First and Second Years).

Claims End - Fourth Year Dentistry.

December 20 Wednesday End of Examinations and First Term (including Law).

December 22 Friday Medicine IV Clerkship classes until January 2.

January 2001

January 2 Tuesday Lectures resume in all faculties and schools. (Except Fourth Year Pharmacy).

Advanced Fieldwork begins in Third Year Occupational Therapy.

Medicine IV Clerkship resumes.

Field instruction begins in Second and Third Year Social Work.

Neurology. Clinical Education begins for Third Year Physical Therapy students.

Last date for receipt of fees and the corrected costs of the fees and the completion of examinations for candidates for graduate degrees in the fall and spring terms.

Last date for application for January supplemental examinations. Maple Program in Agriculture.

January 2-15 Tuesday - Monday. Period for registration and withdrawal in second term half courses in all programs, except the Agriculture Diploma Program.

January 3 Wednesday. Supplementary examinations in March Program in Agriculture.

January 6 Saturday. Language reading tests for graduate students.

January 8 Monday Second term exponential rotations begin in Fourth Year Pharmacy.

January 11 Thursday. Last date for registration for second term half courses, including Challenge for Credit, and for registration and withdrawal in third term half courses in the Bachelor of Education in the Bachelor of Education (see registration guide).

Last date for registration for students wishing to take Distance Education courses commencing in January. For further details, please consult the 2000-2001 Distance Education Program Guide.

Second term and Full courses dropped after this date from some programs, except for the Distance Education Program in Agriculture. The Bachelor of Education (see registration guide) are recorded as Voluntary Withdrawals. (See Refund Schedule for financial implications.)

Last date for the receipt of applications in the Faculty of Graduate Studies for international applicants applying for September 2001.

January 19 Friday Final date for receipt of second term and full course fee payments. Registrations for second term and full courses are cancelled for any student having an unpaid balance after this date.

January 22 Monday Last date for receipt of applications for admission to Dentistry for the 2001-2002 Regular Session.

February 2001

February 1 Thursday. Last date for receipt of applications for early consideration to University I, Engineering and Fine Arts for the 2001-2002 Regular Session.

Last date for the receipt of applications for admission to Dental Hygiene and Law.

Last date for the receipt of applications for admission to Dental Hygiene and Law.

Last date for the receipt of applications to Masters' and Ph.D. Programs in Social Work from applicants residing in Canada at the date of application.

Last date for application to write examinations at a location other than the University of Manitoba in courses ending in April taken through the Distance Education Program by Independent Study, Group-Based Study or Network Study.

February 2 Friday. Last date for receipt in Graduate Studies Office of Ph.D. thesis (for distribution) from students wishing to graduate in May of 2001.

Auditions for prospective Bachelor of Music Degree students.
May 1 - 4. Monday - Friday Auditions for prospective Music Majors.

May 4. Friday. Medicine IV Clerkship closes.

May 5. Saturday. Annual Traditional Graduation Pow wow in honour of Aboriginal graduates.

May 6 - 8. Tuesday - Wednesday. Medical Council of Canada Exam begins.

May 8. Thursday. Last day of lectures in Second Year Medicine.

May 11. Friday. Basic Fieldwork ends for First Year Occupational Therapy students.

May 12 - 16. Last day of courses in First & Second Year Medicine.

May 21. Monday. VICTORIA DAY. University closed. No classes or examinations.

May 26. Thursday. Summer Fieldwork ends for Second Year Occupational Therapy Students.

May 29 - 31. Wednesday - Thursday. One Hundred and Twenty Second Annual Spring Convocation.

June 2001


July 2001

July 2. Monday. HOLIDAY IN LIEU OF CANADA DAY. University closed. No classes or examinations.

July 3. Tuesday. Classes begin in Summer Session.

Students are reminded that they must remain available until all examination and test obligations have been fulfilled.

Observance of Religious Holidays.

The University acknowledges the right of all students to observe recognized holy days of their faith which fall within the above schedule and will, at its discretion, upon request, make necessary arrangements to ensure that studies are not jeopardized.

Instructions should be notified to a student's intended absence in advance; and, at least three weeks notice of absence from scheduled examinations should normally be given where special arrangements are sought.

Schedule of Registration Activities.

The applicable dates for the various registration activities in each Faculty and School for the 2000-2001 academic year are published in a Registration Guide which is issued to all returning and new students and sold on request to others interested in this information.

For further information on registration activities contact:

Student Records Office
Room 450, University Centre
The University of Manitoba
Winnipeg, Manitoba
R3T 2N2
Phone 474-9420

NOTES:

1) STUDENTS PLANNING TO TAKE COURSES THROUGH THE DISTANCE EDUCATION PROGRAM SHOULD CONSULT THE ACADEMIC SCHEDULE IMPORTANT CATES CONTAINED IN THE DISTANCE EDUCATION PROGRAM GUIDE.

As at November 16, 1999

Planning Guide 2000 Academic Schedule 05a
Report of the Senate Committee on Curriculum and Course Changes Part A - Submitted to Senate for Concurrence Without Debate

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 3 July 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 programmes are to be referred to the SPPC for assessment of resource implications.

2. Faculty of Agricultural and Food Sciences

Agriculture Diploma Curriculum

The School of Agriculture is proposing a revised curriculum for the Agriculture Diploma programme. The last major curriculum review was conducted in 1988, and it resulted in the development of the existing curriculum. Although it is generally regarded as being successful, the School believes that the proposed revisions will ensure that the programme continues to be delivered effectively and efficiently. The revisions are based upon information and feedback gathered from graduates as well as employers.

The proposed programme will remain a two-year diploma programme offered within the Faculty of Agricultural and Food Sciences, with the overall curriculum structure remaining very similar to the present one. There are (and will continue to be) four options within the programme: Business Management, Crop Management, Livestock Management and General Agriculture.

Most of the course changes represent the re-structuring of existing courses.

A total of five new courses are being introduced: 035.0YF Special Topics in Livestock Management, 039.0YG Special Topics in Crop Management, 061.0YF Financial Risk Management, 061.0YG Special Topics in Business Management and 066.0YC Special Topics in General Agriculture.

The library has indicated that there will be no problem in supporting the proposed new curriculum.

The School is proposing that the new curriculum be phased in beginning in September of 2000.

Department of Food Science

Course 078.427 Market Milk Technology is to be deleted, as it has not been offered for the last two years and because a change in staff requires a consolidation of elective courses in the dairy area.
The department proposes that 078.453 Processing of Plant Food Products be deleted due to low enrollment.

Course 078.4XX Introduction to Hazard Analysis and Critical Control Points (HACCP) is being introduced. HACCP has become a mandatory program for all food companies exporting to the United States and is used as an important criterion to judge food safety practices throughout the world. A new course in HACCP is proposed to allow students enough time to learn in a lecture/workshop format and develop an industry-specific HACCP plan. Previous approaches to the subject did not allow proper, in-depth treatment of the subject.

The Department/Faculty/University does not have a comprehensive course aimed at delivering knowledge in the applied science of wheat utilization for food. Such a course should be offered, in light of the economic and social importance of wheat as a commodity and food, relevance to University teaching and research programs in cereal science, and local and national job opportunities in the cereal grains industry. Such a course might also help to attract new students to the Department and the Faculty. Accordingly, 078.3XX Baking Science and Technology is being introduced.

New Introductory Economics Courses

For the Faculty-required course in Economics, students may now take either 018.120 Principles of Economics or 018.121 Introduction to Canadian Economics Assessment Policies and 018.122 Introduction to Global and Environmental Economics Issues and Policies.

3. Faculty of Arts

Canadian Studies

In order to offer students a core course in Canadian Studies at the upper level, 099.3XX Canadian Identity in the 20th Century: An Interdisciplinary Approach will be introduced.

Department of Classics

Course 003.094 New Testament Greek is to be deleted; it will be re-introduced as 003.1AA New Testament Greek. Similarly, 003.095 Introduction to the Reading of Ancient Greek will be re-introduced as 003.1AB Introduction to the Reading of Ancient Greek, and 003.096 Introduction to the Reading of Latin will be re-introduced as 003.1AC Introduction to the Reading of Latin. All the new courses will satisfy all the same requirements and be subject to the same restrictions as the deleted courses.

Course 003.124 Greek and Roman Culture and Civilization will be deleted. It will be re-introduced as two half-courses, 003.1CA Introduction to Ancient Greek Culture and 003.1CB Introduction to Ancient Roman Culture. The change to three credit hour courses is calculated to make the offering more compatible with the needs of University 1 and to facilitate departmental timetabling.

Two new courses, 003.1BB Introductory Modern Greek I and 003.1DC Introductory Modern Greek II, are being introduced to provide students with a basic working knowledge of the Modern Greek language. It will meet the demands of a varied student clientele at the University of Manitoba as there is a sizeable population of first and second generation Greeks in Manitoba, many of whom desire formal instruction in their ancestral language in courses that carry academic credit. There are other students in the University population who wish to study the language as a complement to their
Studies of other areas of Hellenic civilization and other phases of the Greek language. These courses will include students in classical archaeology and other fields for whom a knowledge of the modern language is a practical asset when they work in Greece or with scholarly materials published in Modern Greek. It is also expected that these courses can be used for credit towards the existing major and minor programme in Greek offered by the Classics Department. The courses will also promote and benefit from the programmes of the recently established University of Manitoba Centre for the Study of Hellenic Civilization and a currently planned University of Manitoba Term in Greece.

Department of Economics

Two courses are being introduced as required courses for the Political Economy Programme: 018.2XX Political Economy I: Production and Distribution and 018.2XY Political Economy II: Economic Growth and Fluctuations in a Global Environment.

Film Studies Programme

Course 089.3LM Advanced Filmmaking is being introduced as a matter of responding to developments in film studies pedagogy and to information gleaned from student surveys, and the purchase of a computer video edition system that will provide the hardware for the teaching of such a course.

Department of French, Spanish and Italian

French

Course 044.092 Introductory French is to be deleted. It will be re-introduced as 044.1XX Introductory French, which will reflect the course level more accurately.

Arising from the above re-numbering, course 044.120 French I will be modified.

In order to observe the standard practice of presenting course restrictions in English, and to change the pre-requisite to reflect departmental practice, course 044.262 Grammaire et lexique will be modified.

Spanish

Course 044.090 Introductory Spanish will be deleted. It is being re-introduced as 044.1YY Introductory Spanish, which will reflect the course level more accurately.

Due to the above re-numbering, course 044.126 Intermediate Spanish Language Review will be modified.

Also due to this re-numbering, the pre-requisite for the following courses must be modified: 044.220 Spanish American Culture and Civilization, 044.251 Survey of Spanish Civilization, 044.252 Introduction to Spanish Literature, 044.253 Spanish American Literature I and 044.254 Spanish American Literature II.

Italian

Course 044.091 Introductory Italian is to be deleted. It will be re-introduced as 044.1ZZ
Introdutory Italian. Similarly, course 044.123 Intermediate Italian will be re-introduced as 044.222 Intermediate Italian, and 044.260 Advanced Italian will be re-introduced as 044.3ZZ Advanced Italian. The course numbers are being changed in order to reflect the course level more accurately.

Department of German & Slavic Studies

German

In order to reflect course levels more accurately, the following courses are being re-numbered: 006.090 Elementary German will become 006.1XX Elementary German, 008.091 Beginning German (008.091F Introduction à l'allemand) will become 008.1XY Beginning German (008.1XY Introduction à l'allemand), 009.120 Intermediate German (009.120F Allemand Intermédiaire) will become 008.2XX Intermediate German (008.2XXF Allemand intermédiaire), 008.123 Continuing German: Grammar, Exercises, Selected Texts will become 008.2XY Continuing German: Grammar, Exercises, Selected Texts, 006.225 Deutsche Sprachpraxis I will become 006.3XX Deutsche Sprachpraxis I, and 006.226 Business German (006.226F Cours d'allemand commercial) will become 008.3XY Business German (008.3XYF Cours d'allemand commercial).

Department of History

Because several faculty members have retired and not been replaced, or because some members have taken on new teaching assignments, there is no prospect that several courses in History can be offered in the foreseeable future. The Department therefore proposes to delete the following courses: 011.252W The History of France Since 1789, 011.324 Protestantism and the Development of the Canadian Community 1749-1970, 011.334 History of Europe 1789 to 1670, 011.341 The British Empire and Commonwealth Since 1815 (011.341 Histoire de l'empire et du Commonwealth depuis 1815), 011.380 Eastern Europe Since the French Revolution, 011.384 Peace and War in the Modern World, 011.421 France in the Age of the Enlightenment and the French Revolution and 011.449 The New Canada 1867-96.

In order to reflect course content more accurately, 011.125W New Directions in History: Inquiries into the Cultural Basis of the Modern World and 011.127W New Directions in History: Inquiries into the Power Relations of the Modern World are being modified.

Department of Icelandic

Course 012.093 Modern Icelandic I will be deleted, as the 090 numbering does not accurately reflect the academic requirements of the course. It will be re-introduced as 012.1XX Modern Icelandic I. Similarly, 012.123 Modern Icelandic II will be re-introduced as 012.2XX Modern Icelandic II.

Interdisciplinary Course Numbers

In the late 1950s and early 1970s the Faculty of Arts began to introduce a few courses that were not specifically discipline based. These courses were assigned a course prefix of 099. Following the mid 1970s more courses were introduced and while not specifically discipline based began to form a number of courses in an area (e.g. Film, Theatre). Many of these areas eventually came to have programmes and co-ordinators and all used the same 099 prefix, which made it difficult to distinguish one area from another.
The Faculty of Arts is now recommending that the C00 prefix be replaced with a discreet prefix number. Therefore, Asian Studies courses will be re-numbered with the prefix 1AA, Film Studies will be 1AB, Labour and Workplace Studies will be 1AC, Theatre will be 1AD, and Women's Studies will be 1AE.

**Latin American Studies Programme**

The list of courses acceptable for the Minor is being modified.

**Department of Linguistics**

Courses 126.1XX Language and Gender and 126.1XY Rules of English Grammar are being introduced to broaden the range of Linguistics courses available at the 100-level, to attract more students into the discipline, in response to requests by students for courses dealing with these particular topics, and as a result of the interests and expertise of new faculty members in the Department.

**Department of Near Eastern & Judaic Studies**

Course 055.091 Introductory Hebrew is being deleted, as the contents are already being covered in 055.125 Hebrew I.

Course 055.092 Biblical Hebrew is to be deleted, as the C00 numbering does not accurately reflect the academic requirements of the course. It will be re-introduced as 055.1XX Biblical Hebrew.

**Department of Psychology**

In order to make the course description consistent with the way it is currently being taught, 017.241 Social Psychology I (017.241F Psychologie sociale I) is being modified. Course 017.242 Social Psychology II will be modified for the same reason.

**Department of Religion**

Because the C00 numbering does not accurately reflect the academic requirements of the course, 020.092 Biblical Hebrew is being deleted. It is being re-introduced as 020.1XX Biblical Hebrew.

**Department of Sociology**

Course 077.250 Origins of Sociological Thought (077.250 Origines de la pensée sociologique) will be deleted. It will be re-numbered as 077.3XX Origins of Sociological Thought (077.3XX Origines de la pensée sociologique), and will serve as a theory option in the reactivated Honours Programme.

Course 077.254 Social Inequality (077.254 Inégalités sociales) will be deleted. It will be re-numbered as 077.3ZX Social Inequality (077.3ZX Inégalités sociales), in order to establish a connection between it and other 300-level courses, and to provide more options to students in the third year.

Course 077.367 Sociological Theory I (077.367 Théorie sociologique I) is to be deleted. It will be re-numbered as 077.2XX Theoretical Foundations (077.2XX Théories sociologiques classiques) and given a new title which reflects course content.
Course 077.368 Sociological Theory II (077.368 Théorie sociologique II) will be deleted. The course title will be changed to 077.3YY Contemporary Sociological Theory (077.3YY Théories sociologiques contemporaines) to reflect changes in the field and to more accurately and informatively reflect the course content.

Course 077.375 Comparative Social Systems is being deleted. It is to be replaced with a new course which will better reflect current developments and the interests and research of new instructors.

Course 077.449 Theories of Social Psychology will be deleted. It will be re-introduced as 077.3XZ Theories in Social Psychology as a theory option in the reactivated Honours Programme.

Course 077.450 Theories of Social Change is to be replaced with course 077.4XY Advanced Sociological Theory, which will better reflect current developments in the field and the interests and research of new instructors.

Course 077.2XY Critical Issues in Sociology is being introduced, as it is necessary to have a course which will involve students in the reactivated Honours Programme early on. The course is designed to begin to develop critical thinking and writing skills as well as establish a student cohort in the second year.

Course 077.3XY Feminist Sociological Theory is being introduced to give Honours students an opportunity to be exposed to another central and increasingly important theoretical school of thought.

The pre-requisite for 077.122 Introduction à la macrosociologie is being modified.

The pre-requisite is being deleted from course 077.247 Courtship and Marriage (077.247F Les fréquentations et le mariage). The proposed change will make the enrollment process simpler and the course more accessible to interested students.

The course description for 077.364 Families In Societal Crisis is being updated to reflect new developments and research in the field and the interests of new instructors.

Course 077.373 Sociology and Education (077.373F Société et éducation) is being modified because the current description is too brief and does not adequately reflect the content of the course.

A very minor change is proposed to 077.445 Honours Seminar; replacing the word "essay" with "thesis" to more accurately reflect what is expected of students.

After being dormant for a decade, the Honours programme is being re-activated in response to student demand, who wish to gain admission to graduate programmes in this field at other institutions.

Department of Français (St. Boniface College)

The College is recommending that the major and minor programmes be made more flexible by adding three credit hour courses to the list of pre-requisites.
Department of Traduction (St. Boniface College)

Course 122.4XX Initiation à la localisation is being introduced. It will provide an additional level of skill which is needed nowadays.

4. Faculty of Education

Department of Curriculum: Humanities & Social Sciences

Three courses are to be deleted: 063.151 Topics in Music Education, 063.159 Topics in Art Education and 063.160 Topics in Drama Education. The course content for all 3 courses is to be incorporated into 132.1XX Teaching the Arts in Senior Years. The proposed new course will be a compulsory Curriculum and Instruction course for majors and minors in Art, Music, Drama in the Senior Years programme (Year II).

Course 063.151 Topics in Social Studies Education is being deleted. Its course content will be incorporated into 132.1XD Teaching Social Studies in Senior Years. The new course will be compulsory for majors and minors in History and Geography in the Senior Years programme (Year II).

Course 063.131 Teaching Language Arts is to be deleted and replaced by courses 132.1XF Teaching English Language Arts in Senior Years I and 132.2XX Teaching English Language Arts in Senior Years II.

Course 132.1XB Art Across the Curriculum is to be introduced. This course will incorporate content from two courses which will be deleted in 2002/2003, 063.217 Art Workshop (Elementary) and 063.215 Art in the Secondary School. The proposed course will be a cross-stream complementary course.

Course 132.1XC Drama Across the Curriculum is being introduced. It will incorporate content from two courses which will be deleted in 2002/2003, 063.213 Creative Drama and 063.208 Improvisational Theatre. The proposed course will be a cross-stream complementary course.

Re-Numbering of B.Ed. Courses

The Department of Curriculum, Teaching and Learning is proposing the re-numbering of its courses for the 2000-2001 regular session, as a result of the merger of the two curriculum departments earlier in 1999.

5. Faculty of Engineering

Management Minor

The Faculty of Engineering is proposing to offer a Management Minor. This proposal has the support of the Faculty of Management, and a protocol regarding numbers of students has been agreed upon.

Department of Electrical & Computer Engineering

Course 130.118 Introduction to Electric Circuits is to be modified. The Faculty of Science offers course 016.261, which has significant overlap with 130.118, so they should not be held concurrently.
Credit should not be held for both courses.

Course 130.201 Technical Communications is being modified by shortening the Calendar description and adding a pre-requisite.

Department of Mechanical & Industrial Engineering

The Department is proposing to offer a Mechanical Engineering Industry Internship Programme (MEIPP). The main features of this programme would be:

a) Students would be permitted to apply for an industry internship after successful completion of 120 credit hours.

b) A student must be in Good Academic Standing to apply for an internship. Acceptance into the programme would be dependent upon the student receiving a job placement and in registering in the course 025.4XX M.E. Industry Internship.

c) The internship would be 12 to 16 months in length and the student would be employed with the same company during that period.

d) On the completion of the internship programme a student would submit a "Work Term Report" which would be graded either Pass or Fail. A "Pass" for the "Work Term Report" and satisfactory completion of the work term would result in this student's participation being recorded on the student's transcript.

e) No academic credits will be given for the MEIPP.

f) A student who has successfully completed an IIP will not be exempt from completing an undergraduate thesis.

The Department will attempt to place as many students as possible with the staff that is presently administering the Industrial Engineering Coop Programme. If the demand by the students for internship placements exceed the Department's ability to obtain jobs for the students, then the number of students admitted into the programme will be controlled.

Course 025.4XX Mechanical Engineering Industry Internship is being introduced.

6. Faculty of Law

Course 045.3AA Employment Law is to be introduced. Employment Law was introduced on a trial basis some years ago under the umbrella course Current Legal Problems B. The course has proved to be a successful and important part of the Faculty's programme, and is being established as a discrete course in its own right.

Similarly, Securities Law was introduced on a trial basis some years under the umbrella course Current Legal Problems A. It has proved to be a successful and important part of the Faculty's programme, and therefore 045.3AB Securities Law is being established as a discrete course in its own right.

8. Faculty of Management

Revisions to International Business Major

The Faculty of Management currently offers an International Business Major in the Bachelor of Commerce (Honours) degree programme but feels the requirements should be revised to ensure that all International Business majors take courses with an international focus from four different functional areas (Management, Finance, Marketing and Human Resource Management). Students
could still take the other courses currently included in the major and include those courses as Management Options.

Other Curriculum and Regulation Changes

Economics Requirement

The Faculty currently requires 018.120 Principles of Economics as a qualifying course requirement for admission to the Bachelor of Commerce (Honours) degree programme. The Department of Economics has introduced two new three-credit hour courses, 018.121 Introduction to Canadian Economics Issues and Principles and 018.122 Introduction to Global and Environmental Economics which are considered to be equivalent to 018.120. Therefore, the Faculty of Management is recommending that the admission requirement for Economics for the Bachelor of Commerce (Honours) degree programme be amended to include these new courses.

Ethics Requirement

The Faculty of Management requires students in the Bachelor of Commerce (Honours) degree programme to complete a course that satisfies the Ethics requirement. Currently, students may choose from a list of six philosophy courses, and the Faculty is recommending that 020.245 Religious Ethics be added to that list of approved courses.

Grade Point Average Calculation

When the Qualifying Year requirement for the Bachelor of Commerce (Honours) degree programme was introduced in 1997, the Faculty of Management decided to exclude the 30 credit hours of pre-management qualifying year courses from students' Management cumulative grade point average. Since that time the GPA was based only on the 66 credit hours that students complete after admission to the Faculty of Management. A number of factors have changed over time which have prompted the Faculty to conclude that it would be far less confusing to students to have the Management grade point average based on the entire 126 credit hours (the 30 credit hours from the Qualifying Year plus the 96 credit hours required upon admission). This change would greatly reduce administrative problems as well as the work load to Admissions Officers in Enrollment Services and the staff in the Faculty's Undergraduate Program Office. This change would not change any degree requirements.

Repeats/Substitutions Limit

The Faculty of Management currently limits students in the Bachelor of Commerce (Honours) degree programme to 6 credit hours of repeating and/or substituting previously passed courses in order to improve grades. Students wishing to repeat courses must wait until the initial 21 day access period has concluded before they are permitted to register for these courses. This practice ensures that students registering for the first time have priority for space. Students repeat courses in order to achieve pre-requisite grade requirements for advanced courses in some majors and to fulfill grade requirements for professional designations they may seek after graduation. The Faculty is recommending that the repeat/substitution limit be increased from 6 to 12 credit hours, with a maximum of 6 credit hours per course.
8. School of Medical Rehabilitation

Occupational Therapy Programme

Course 066.146 Basic Clinical Sciences will be deleted. It will be replaced by 068.1AA Basic Clinical Sciences through reorganization and re-sequencing of the existing curriculum, which will allow for better integration of material.

Course 068.4XY Re-Entry Fieldwork is being introduced in response to a request from the registration body to develop a course which allows individuals to re-enter the profession after some time away from it.

9. School of Music

In order to meet the University requirement that courses be numbered at the 100 level or above, course 033.093 Rudiments of Music will be deleted. It will be re-introduced as 033.1XX Rudiments of Music.

10. Faculty of Nursing

The Faculty of Nursing does not offer a distinct course which addresses pharmacological concepts in nursing practice. At the present time, these concepts are integrated into the nursing curriculum. With the development of course 049.2XX Pharmacology in Nursing Practice, increased emphasis can be placed on pharmacology in nursing practice in order to provide care that is consistent with current needs and practices.

The Faculty is proposing the introduction of a co-operative nursing education experience. Co-op programmes provide the opportunity for students to apply their theoretical knowledge in the workplace through supervised work terms for which they are paid. Students are hired by participating agencies under the supervision of a workplace employee who serves as a mentor. Students assume responsibilities suitable for their level of knowledge and expertise. All co-op work experiences will be optional and in addition to the requirements of the curriculum. The Faculty believes that co-op nursing education experiences will enhance the nursing practice (knowledge and clinical skills) of students while providing a needed service to people receiving care. Financial compensation received during co-op experiences will be an attractive option for students pursuing their B.N. degree. Although there will be some resource implications, the Faculty of Nursing is prepared to implement this option within its existing budget.

The following courses are being introduced as part of the co-operative nursing education experience: 049.2XX Co-operative Nursing Education Experience, 049.3XX Co-operative Nursing Education Experience, 049.3XY Co-operative Nursing Education Experience and 049.4XX Co-operative Nursing Education Experience.

11. Faculty of Pharmacy

Course 046.118 Fundamentals of Pharmaceutical Chemistry is being modified in a rewording of the course description to emphasize the importance of the "orientation to pharmacy" portion.

Course 046.344 Pharmacy Administration is to be deleted. It is to be re-introduced as 046.4XX Pharmacy Administration as a capstone course in pharmacy management is needed to integrate what has been learned in the newly introduced Skills Lab stream (which was approved in 1998).
Students move from a science-based programme to a practice-based programme in their third professional year. A course in pharmacy practice management appears to be premature in the third year and students have minimal exposure and context within which to relate to a course out of their "perceived" scope of understanding what pharmacy is about.

12. **Faculty of Physical Education and Recreation Studies**

**Physical Education Degree Programme**

Course 057.132 Foundations of Physical Education will be deleted. It will be re-introduced as 057.1AA Foundations of Physical Education and Exercise Science. The change in course title will better reflect the existing course content and the curriculum requirements of the B.E.S.S. degree.

Course 057.4AA Exercise for Older Adults is being introduced. The addition of a practical activity course in aging will introduce new practical material and opportunities in keeping with the recent introduction of the Physical Health and Wellness stream in the B.E.S.S. degree, will enhance the curriculum for the increased numbers of B.E.S.S. students expected to enrol in the Option in Aging, and will provide material required for students to become accredited with the Manitoba Fitness Council.

The pre-requisites for course 057.450 Aging Adult Development, Health and Fitness are being changed in order to make the course more accessible to students in the Option in Aging, to ensure a standardized background knowledge of the physical aspects of aging, and to reflect curriculum changes associated with the Physical Health and Wellness stream in the B.E.S.S. degree.

13. **Faculty of Science**

**Actuarial Mathematics Honours Programme**

The Actuarial Mathematics Honours Programme is being revised.

**Introductory Biology Programme**

Service course 071.130 General Science for Elementary Teachers (071.130 Sciences pour professeurs à l'élémentaire) is to be deleted, as it is no longer required by the Faculty of Education.

**Department of Botany**

Course 001.402 Forest Botany is to be modified, as the previous pre-requisite was inappropriate.

In order to increase pre-requisite flexibility, 001.421 Principles of Plant Pathology is being modified.

**Department of Chemistry**

The Department of Chemistry proposes to change its regulations for the Major and Honours Chemistry degrees with regard to the mathematics and physics optional courses.
Department of Computer Science

Course 074.122 Computers and the Modern World is to be deleted, as the Department of Computer Science no longer wishes to offer the material. It is not a technical course and cannot be used to fill the major or honours requirement in Computer Science.

Courses 074.226 Applied Computer Concepts and 074.227 Introduction to Object Orientation are to be placed into the Not Currently Offered category, as they are not currently being taught.

Service course 074.100 Information Technology for Management is to be deleted, as the Faculty of Management no longer requires this course.

The B.Sc. Major performance requirements are being amended to permit students to continue in the programme if they receive less than a 2.00 sessional grade point average in the Summer Session so long as they maintain a 2.00 on all courses.

Computer Science - Mathematics Joint Honours Programme

A co-operative option is being added to this programme. Students will be required to complete three work terms in the Summer Sessions immediately following Year II, Year III and Year IV. Unlike students in the Computer Science Co-operative option, they cannot timetable work terms during the Regular Session because some of the required courses are offered only in the Regular academic session. Students would graduate in October after their last work term.

Department of Geological Sciences

Courses 007.432 Physics of the Earth-Seismology and Heat Flow and 007.433 Physics of the Earth-Geomagnetism and Gravity are being modified to ensure students will have an appropriate level of physics.

In order to ensure students will have a background in linear algebra, course 007.425 Theory and Application of Geophysical Inversion Methods will be modified.

Course 007.374 Exploration Seismology will be modified to ensure that students will have appropriate mathematics.

In order to adapt to the changes in the Department of Mathematics and to ensure physics background, course 007.461 Geophysical Data Analysis will be modified.

Course 007.474 Geophysics Field Course will be modified to allow students having completed their second year to register for field school.

A number of programme changes are being recommended.

Department of Mathematics

Because the amalgamation of the Applied Mathematics and the Mathematics departments necessitates the re-numbering of second year courses, the following courses are to be deleted: 006.220 Numerical Mathematics I, 006.220F Mathématiques numériques I, 006.230 Applied Graph Theory, 006.235 Ordinary Differential Equations with Applications 1, and 006.235F Équations différentielles ordinaires et leurs applications 1, 006.241 Mathematical Modelling...
without Calculus, 006.245 Ordinary Differential Equations with Applications II, 013.224
Modern Geometry, 013.224F Géométrie moderne, 013.226 Introduction to Number Theory,
013.228F Introduction à la théorie des nombres, 013.234 Calculus, 013.235 Linear Algebra and
Geometry, 013.237 Basic Concepts of Mathematical Analysis, 013.239 Calculus IIIA, 013.239F
Calcul, 013.245 Linear Algebra II, 013.246F Algèbre linéaire, 013.247 Combinatorial
Mathematics, 013.247F Mathématiques combinatoires, 013.248 Calculus IIIB and 013.249F
Calcul IIIB.

They are being re-introduced as the following: 136.2AB Mathematical Modelling without
Calculus, 136.2SR Sets and Real Numbers, 136.2DA Linear Algebra II, 136.2DAF Algèbre
linéaire II, 136.2LA Linear Algebra with Applications, 136.2EA Applied Graph Theory, 136.2EF
Combinatorial Mathematics, 136.2EFF Mathématiques combinatoires, 136.2FA Introduction
to Number Theory, 136.2FAP Introduction à la théorie des nombres, 136.2FF Modern
Geometry, 136.2FFF Géométrie moderne, 136.2GA Numerical Mathematics 1, 136.2GAF
Mathématiques numériques 1, 136.2HA Calculus IIIB, 136.2HAF Calcul IIIB, 136.2HB Calculus
IIIB, 136.2HBF Calcul IIIB, 136.2HF Calculus, 136.2JA Ordinary Differential Equations with
Applications 1, and 136.2JAF Equations différentielles ordinaires et leurs applications 1.

Courses 006.320 Numerical Mathematics II, 006.320F Mathématiques numériques II, 006.325
Applied Complex Analysis, 006.328 Mathematical Problems in the Biological Sciences,
006.329 Mathematical Theory of Operational Research, 006.332 Techniques of Applied
Analysis, 006.334 Mathematical Elements for Computational Graphics, 006.335 Applied Linear
Algebra, 006.337 Introduction to Mathematical Modelling, 006.347 Partial Differential
Equations I, 013.332 Advanced Calculus, 013.333 Modern Algebra, 013.336 Metric Spaces,
and Probability, 013.349 Theory of Numbers, 013.370 Problem-Solving Seminar, 013.373
Set Theory, 006.442 Tensor and Variational Calculus, 013.452 Real Variables and 013.457
Partial Differential Equations are being modified because the recent amalgamation of the Applied
Mathematics and the Mathematics departments necessitates the re-numbering of second year
courses.

Due to the amalgamation of the Applied Mathematics and the Mathematics departments, the
following service courses are being deleted: 006.280 Mathematical Methods for Engineers I,
006.361 Mathematical Methods for Engineers II, 006.270 Introductory Numerical Methods for
Engineers, 013.228M Number Systems and Geometry with Applications, 013.228FM Les
systèmes des nombres, la géométrie et les applications, 013.229M Introduction to Algebraic
Structures, 013.229FM Introduction aux structures algébriques, 013.238M Modern Concepts of

The following are being introduced as replacement service courses: 136.2AFM Number Systems
and Geometry with Applications, 136.2AFFM Les systèmes de nombres, la géométrie et les
applications, 136.2AGM Introduction to Algebraic Structures, 136.2AGFM Introduction aux
structures algébriques, 136.2HA Mathematical Methods for Engineers I, 136.2HB
Mathematical Methods for Engineers II, and 136.2HC Introductory Numerical Methods for
Engineers.

Because the amalgamation of the Applied Mathematics and the Mathematics departments
necessitates the re-numbering of second year courses, the pre-requisites for the following service
courses are being modified: 006.345 Mathematical Methods and Complex Analysis, 013.355
Advanced Mathematics for Physicists, 006.360 Mathematical Methods for Engineers III, and

136.119F is being introduced in French to replace the deleted course 013.299F (the English version of 136.119 was introduced in December of 1966).

There are a number of programme changes as well.

**Applied Mathematics - Statistics Joint Honours Programme**

**Mathematics - Actuarial Mathematics Joint Honours Programme**

**Mathematics - Physics Joint Honours Programme**

**Department of Microbiology**

Course 060.122 Essentials of Microbiology is to be modified, as the lab component of the course has not been given since 1984. The course is being moved from the service course offerings to the general listing, as it is a University 1 course. This change has the support of the Faculty of Nursing.

**Department of Physics & Astronomy**

Course 016.335 Physical Electronics is being deleted, as it has not been taught for at least ten years.

Course 016.090 Preparing for University Physics is being modified by removing the outdated reference to "Mathematics 40S" and clarifying and simplifying the wording.

Because the high school pre-requisites have changed, the following are being modified: 016.102 General Physics I, 016.102F Physique générale I, 016.105 Physics I: Mechanics and 016.105F Physique I: la mécanique.

Course 016.201 Circuit Theory and Introductory Electronics is to be modified, as the Faculty of Engineering recently introduced a new course, 130.116, with significant overlap with 016.201. The two courses should not be held concurrently, and credit should not be given for both.

Course 016.265 Classical Mechanics I is being modified to update the mathematics course numbers.

As they are no longer required by the Faculty of Engineering, the following service courses are being deleted: 016.118 Introductory Dynamics 016.229 Introductory Modern Physics IIC, 016.283 Modern Physics IIIA, and 016.335 Nuclear Physics IIII.

Service course 016.360 Mechanics A is to be modified because a first year level understanding of mechanics is required to enter the course.

There are changes to programme requirements.

**Department of Statistics**

Arising from the re-numbering of courses in Mathematics, the following courses need to be modified:
005.305 Introduction to Probability Theory and Its Applications, 005.350 Intermediate Statistical Theory I and 005.360 Intermediate Statistical Theory II.

Service course 005.250 Introductory Probability and Statistics for Electrical Engineers is being deleted. It will be replaced by service course 005.2ES Contemporary Statistics for Engineers, which will suit the need of all Engineering students and programmes.

There are a number of changes to programme requirements.

Statistics - Actuarial Mathematics Joint Honours Programme

Statistics - Mathematics Joint Honours Programme

Department of Zoology

Course 022.457 Biology of Fishes will be deleted. It will be replaced by two 3-credit hour courses, 022.4XX Biology of Fishes and 022.4XY Systematics and Biogeography of Fishes, which will add flexibility for students.

Courses 022.254 Human Physiology II and 022.254 Physiologie du corps humain II are to be modified by changing the pre-requisite.

Course 022.350 Limnology is to be modified by a slightly modified course description and an altered pre-requisite course.

There are a number of programme changes.

Courses Offered in Other Faculties and Schools Acceptable for Credit In Science

Faculty of Physical Education and Recreation Studies

Course 123.402 Resource-Based Outdoor Recreation/Education is being added at the request of the Environmental Science Programme, and it has the support of the Faculty of Physical Education and Recreation Studies.

14. Faculty of Social Work

Course 047.408 Current Issues in Social Welfare will be modified. This course is a social work elective, and the modification will permit any student who does not have the pre-requisite 047.131 but who has adequate preparation to take the course with permission of the instructor.
15. **Centre for Higher Education Research and Development**

In 1989, the Senate Committee on Curriculum and Course Changes was charged with the responsibility of approving, on behalf of Senate, the introduction, modification or abolition of Certificate Programmes.

In 1984, the Centre for Higher Education Research and Development was asked to develop a Certificate Course in University Management. These courses are rarely offered at this campus, but are instead taught at various locations across the country.

CHERD is now proposing to offer seven new courses under this Certificate Programme. As these courses are all delivered off-campus, additional library resources are not required.

The Senate Committee on Curriculum and Course Changes approved the introduction of the following new courses:

**Tribunal Training Programmes (30 credit hours)**
Will focus on the holding of formal hearings on both academic and non-academic matters. The workshop is specifically designed to equip administrators and faculty with the knowledge and skills necessary to conduct these hearings.

**University Committees and Decision Making (20 credit hours)**
Course work will explore the roles committees play in decision making, the issues involved in faculty appointments, promotion and tenure, student admission, progress and discipline and curriculum development. Focus will be on practical and legal issues affecting committees and decision making progress.

**Faculty in Transition (10 credit hours)**
The focus of the workshop will be the recruitment and retention of new faculty.

**Powerful Writing for University Administrators (20 credit hours)**
Intensive two-day course designed to help administrators write convincingly for different audiences so that their text stands out and is acted on.

**Labour Relations and Collective Bargaining in Higher Education (30 credit hours)**
Participants will improve their effectiveness as negotiators and bargaining team members and learn how to avoid the pitfalls inherent in the complex world of labour relations and collective bargaining.

**Internationalization of Higher Education (30 credit hours)**
Deals with ways of expanding and strengthening the international dimensions of a post-secondary institution's teaching, research and service roles. Emphasis will be placed on the process and planning of internationalization, the internationalization of the curriculum, and faculty development of international initiatives.

**University-Faculty Relations in a Unionized Setting: Living with a Collective Agreement and Resolving Disputes Without Rancor (20 credit hours)**
Focuses on the informal resolution of problems, whenever such resolution is possible and on the identification of likely outcomes of formal resolution processes, as well as how collective agreements may need to evolve to minimize these problems.
Recommendations

The Senate Committee on Curriculum and Course Changes recommends that curriculum and course changes from the units listed below be approved without debate:

**Faculty of Agricultural and Food Sciences**

- Agriculture Diploma Curriculum
- Department of Food Science
- New Introductory Economics Courses

**Faculty of Arts**

- Canadian Studies
- Department of Classics
- Department of Economics
- Film Studies Programme
- Department of French, Spanish & Italian
- Department of German & Slavic Studies (German)
- Department of History
- Department of Icelandic
- Interdisciplinary Course Numbers
- Latin American Studies Programme
- Department of Linguistics
- Department of Near Eastern & Judaic Studies
- Department of Psychology
- Department of Religion
- Department of Sociology
- Department of Français (St. Boniface College)
- Department of Traduction (St. Boniface College)

**Faculty of Education**

- Department of Curriculum: Humanities & Social Sciences
- Re-Numbering of B.Ed. Courses

**Faculty of Engineering**

- Management Minor
- Department of Electrical & Computer Engineering
- Department of Mechanical & Industrial Engineering

**Faculty of Law**

**Faculty of Management**

- Revisions to International Business Major
- Other Curriculum and Regulation Changes
School of Medical Rehabilitation

Occupational Therapy Programme

School of Music

Faculty of Nursing

Faculty of Pharmacy

Faculty of Physical Education and Recreation Studies

Faculty of Science

Actuarial Mathematics Honours Programme
Introductory Biology Programme
Department of Botany
Department of Chemistry
Department of Computer Science
Computer Science - Mathematics Joint Honours Programme
Department of Geological Sciences
Department of Mathematics
Applied Mathematics - Statistics Joint Honours Programme
Mathematics - Actuarial Mathematics Joint Honours Programme
Mathematics - Physics Joint Honours Programme
Department of Microbiology
Department of Physics & Astronomy
Department of Statistics
Statistics - Actuarial Mathematics Joint Honours Programme
Statistics - Mathematics Joint Honours Programme
Department of Zoology
Courses Offered in Other Faculties and Schools Acceptable for Credit in Science

Faculty of Social Work

Respectfully submitted,

Dean B. L. Dronzek, Chair
Senate Committee on Curriculum and Course Changes


Isigp
## 1. Faculty of Agricultural and Food Sciences

### Agriculture Diploma Curriculum

Courses to be deleted:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.061</td>
<td>Welding</td>
<td>-3</td>
</tr>
<tr>
<td>034.062</td>
<td>Shop Methods</td>
<td>-3</td>
</tr>
<tr>
<td>034.063</td>
<td>Water Management</td>
<td>-3</td>
</tr>
<tr>
<td>034.064</td>
<td>Agricultural Buildings</td>
<td>-3</td>
</tr>
<tr>
<td>034.065</td>
<td>Environments in Agricultural Buildings</td>
<td>-3</td>
</tr>
<tr>
<td>035.040</td>
<td>Animal Biology</td>
<td>-3</td>
</tr>
<tr>
<td>035.041</td>
<td>Animal Nutrition</td>
<td>-3</td>
</tr>
<tr>
<td>035.061</td>
<td>Beef Cattle</td>
<td>-3</td>
</tr>
<tr>
<td>035.062</td>
<td>Dairy Cattle Production</td>
<td>-3</td>
</tr>
<tr>
<td>035.063</td>
<td>Sheep Production</td>
<td>-3</td>
</tr>
<tr>
<td>035.064</td>
<td>Swine Production</td>
<td>-3</td>
</tr>
<tr>
<td>035.065</td>
<td>Poultry Principles and Practices</td>
<td>-3</td>
</tr>
<tr>
<td>035.066</td>
<td>Horse Production and Management</td>
<td>-3</td>
</tr>
<tr>
<td>033.060</td>
<td>Farm Insects</td>
<td>-3</td>
</tr>
<tr>
<td>039.040</td>
<td>Crop Production Principles</td>
<td>-4</td>
</tr>
<tr>
<td>039.060</td>
<td>Forage Crop Production</td>
<td>-3</td>
</tr>
<tr>
<td>039.061</td>
<td>Special Crops</td>
<td>-3</td>
</tr>
<tr>
<td>039.062</td>
<td>Weed Control</td>
<td>-3</td>
</tr>
<tr>
<td>039.063</td>
<td>Plant Diseases</td>
<td>-3</td>
</tr>
<tr>
<td>039.065</td>
<td>General Horticulture</td>
<td>-3</td>
</tr>
<tr>
<td>039.073</td>
<td>Commercial Vegetable Production</td>
<td>-3</td>
</tr>
<tr>
<td>040.040</td>
<td>Formation and Properties of Soils</td>
<td>-3</td>
</tr>
<tr>
<td>040.041</td>
<td>Soil Productivity and Land Use</td>
<td>-3</td>
</tr>
<tr>
<td>040.060</td>
<td>Soil Conservation and Management</td>
<td>-3</td>
</tr>
<tr>
<td>040.061</td>
<td>Soil Fertility and Fertilizers</td>
<td>-3</td>
</tr>
<tr>
<td>061.040</td>
<td>Introduction to Agricultural Economics</td>
<td>-3</td>
</tr>
<tr>
<td>061.041</td>
<td>Agricultural Marketing</td>
<td>-3</td>
</tr>
<tr>
<td>061.042</td>
<td>Introduction to Farm Business Management</td>
<td>-3</td>
</tr>
<tr>
<td>061.043</td>
<td>Economics of Farm Business Management</td>
<td>-3</td>
</tr>
<tr>
<td>061.060</td>
<td>Agribusiness Management</td>
<td>-3</td>
</tr>
<tr>
<td>061.061</td>
<td>Farm Business Finance</td>
<td>-3</td>
</tr>
<tr>
<td>061.062</td>
<td>Merchandising and Selling</td>
<td>-3</td>
</tr>
<tr>
<td>061.063</td>
<td>Farm Property Appraisal</td>
<td>-3</td>
</tr>
<tr>
<td>061.064</td>
<td>Agricultural Policy</td>
<td>-3</td>
</tr>
<tr>
<td>061.065</td>
<td>Advanced Agricultural Marketing</td>
<td>-3</td>
</tr>
<tr>
<td>061.066</td>
<td>Advanced Farm Business Management</td>
<td>-3</td>
</tr>
<tr>
<td>061.067</td>
<td>Agriculture and the Law</td>
<td>-3</td>
</tr>
<tr>
<td>065.040</td>
<td>Introductory Communication and Learning Skills</td>
<td>-3</td>
</tr>
<tr>
<td>065.090</td>
<td>Field Studies</td>
<td>-3</td>
</tr>
<tr>
<td>065.092</td>
<td>Farm Planning Project</td>
<td>-4</td>
</tr>
</tbody>
</table>

Courses to be introduced:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.061</td>
<td>Shop Methods (O-0;3-L)</td>
<td>+4</td>
</tr>
</tbody>
</table>

Principles of operation of lathes, mills, drills, grinders and saws. Intensive instruction in the use of
precision measuring tools. Laboratory project requiring the use of the above machines and tools. Students may not hold credit for 334.0YB and the former 334.062.

034.0YC Water Management (3-L:0-0)
Surveying including use of the level: instrument and steel tape, agricultural drainage, dugouts and wells for farm water supply, irrigation, pump selection, the Water Rights Act. Students may not hold credit for 334.0YC and the former 334.063.

034.0YD Agricultural Buildings and Environments (3-L:0-0)
Factors that impact the practicality of farm buildings. Components of buildings, including materials and construction techniques. Techniques of maintaining building environments to facilitate production and/or storage. Students may not hold credit for 334.0YD and the former 334.064 or 335.065.

035.0XA Animal Biology and Nutrition (3-L:0-0)
An introduction to animal structure and function. Genetics, growth and reproduction will be related to animal production. Further, the digestive systems of various livestock species will be studied and related to types of feedstuffs that each species can utilize. The general function of nutrients within animals will also be discussed. Nutrient content of feedstuffs and application to nutrient requirements will be discussed. Students may not hold credit for 335.0XA and the former 335.040 or 335.041.

035.0YA Beef Cattle Production and Management (3-L:0-0)
Beef cattle industry; the types of beef cattle enterprises and factors affecting profitability of production. Application of principles of nutrition, genetics and physiology in the management of beef cattle enterprises. Pre-requisite: 335.0XA or equivalent. Students may not hold credit for 335.0YA and the former 335.061.

035.0YB Dairy Cattle Production and Management (3-L:0-0)
A study of current production practices in Canada's dairy industry with focus on nutrition, reproduction, genetics, health and replacement rearing and marketing. Pre-requisite: 335.0XA or equivalent. Students may not hold credit for 335.0YB and the former 335.062.

035.0YC Swine Production & Management (0-L:0-4)
Swine industry; the types of swine enterprises and factors affecting profitability of production. Application of principles of nutrition, genetics and physiology in the management of swine. Pre-requisite: 335.0XA or equivalent. Students may not hold credit for 335.0YC and the former 335.064.

035.0YD Poultry Production and Management (3-L:0-0)
The poultry industry: marketing system, breeding, hatchery practices, management and feeding of large scale turkey and chicken enterprises. Pre-requisite: 335.0XA or equivalent. Students may not hold credit for 335.0YD and the former 335.065.

035.0YE Horse Production and Management (0-L:3-L)
Principles of horse production, including genetics and breeding, reproductive management, nutrition and health. Applications to major sections of the horse industry. Pre-requisite: 335.0XA or equivalent. Students may not hold credit for 335.0YE and the former 335.066.

035.0YF Special Topics in Livestock Management (3-0)
Selected topics of current interest in livestock management. Pre-requisite: written consent of Director of the School of Agriculture.
030.0YA  Pest Management and Farm Insects (3-L:0-0)
Characteristics, damage and identification; insecticide use and safety; life histories and control of common Manitoba livestock, field and farmyard insects. General principles of pest management in agriculture will also be discussed. Students may not hold credit for 030.0YA and the former 030.060.

030.0YA  Forage and Pasture Management (3-L:0-0)
For forage crops and the continuaion of improved and unimproved pasture land, a discussion of production practices including choice of species and cultivars of forage crops, cultural management including tillage practices, pest control, forage harvesting, grazing management and seed production. Pre-requisite: 065.0XB. Students may not hold credit for 030.0YA and the former 039.080.

030.0YB  Special Crops (3-L:0-0)
Production practices of special crops for Manitoba including: quality and grade, crop and cultivar selection, cultural requirements including tillage, pest control, fertility requirements, harvesting, rotation and utilization. Pre-requisite: 065.0XB. Students may not hold credit for 039.0YB and the former 039.061.

030.0YC  Weed Management (6-0:3-L)
General principles of pest management and pesticide use safety as they relate to weed control. Economic importance, principles of cultural, biological and chemical weed control, weed identification, introduction to herbicides and factors influencing their use and selectivity. Pre-requisite: 065.0XB. Students may not hold credit for 039.0YC and the former 039.062.

030.0YD  Plant Disease Management (3-L:0-0)
General principles of pest management and pesticide use safety as they relate to plant disease control. Discussion of diseases attacking field and horticultural crops including: disease symptoms, cycles, prevention and control. Pre-requisite: 065.0XB. Students may not hold credit for 034.0YD and the former 039.053.

030.0YE  Landscape Horticulture (6-0:3-L)
Principles of the production and use of horticultural plants in the rural and urban landscape including the establishment and value of shelterbelts. Topics include basic plant propagation, the principles of choosing and establishing ornamental trees, shrubs, herbaceous perennials, annuals, lawns, and multi-use fruit-bearing plants in the landscape, and development of a landscape plan. Students may not hold credit for 030.0YE and the former 039.055.

030.0YF  Diversification with Horticultural Crops (6-0:3-L)
Principles of the uniqueness of production of horticultural crops including vegetables, fruits, herbs, spices and nutraceuticals. The potential for including these alternative crops in Prairies agriculture will be discussed. Students may not hold credit for 039.0YF and the former 039.073.

030.0YG  Special Topics in Crop Management
Selected topics of current interest in Crop Management. Pre-requisite: written consent of Director of the School of Agriculture.

040.0XA  Soil Productivity and Land Use (6-0:3-L)
Soil classification systems; soils of Manitoba and their properties; soil productivity and its maintenance; soil fertility and testing, fertilizer recommendations; environmental concerns. Pre-requisite: 065.0XB. Students may not hold credit for 040.0XA and the former 040.041.
040.0YA  **Soil Conservation and Management (3-1-0-0)**  
Land capability for agriculture; storage, use of water and water use efficiency; saline and alkaline soils; soil acidity; soil erosion and conservation; tillage, cropping systems and rotations; fate of biosolids, pesticides. **Pre-requisite: 040.0XA. Students may not hold credit for 040.0YA and the former 040.060.**

040.0YB  **Soil Fertility (3-0-3-L)**  
Soil nutrients and their behaviour; evaluation of soil fertility including soil testing for precision agriculture; crop response to fertilizers; manufacture, properties, reactions and applications of fertilizer. **Pre-requisite: 040.0XA. Students may not hold credit for 040.0YB and the former 040.081.**

061.0XA  **Agricultural Economics and Marketing I (3-1-0-0)**  
Introduction to key economic concepts and business principles and their application to Canadian agribusiness. **Students may not hold credit for 061.0XA and the former 061.040 or 061.041.**

061.0XBA  **Agricultural Economics and Marketing II (0-0-3-L)**  
The application of economic analysis in the study of marketing; concepts, policy, practices and institutions. **Pre-requisite: 061.0XA. Students may not hold credit for 061.0XBA and the former 061.065.**

081.0XC  **Financial Management I (3-1-0-0)**  
Study of accounting principles and financial information for the preparation and presentation of financial statements to facilitate the management of farms and agricultural businesses. **Students may not hold credit for 081.0XC and the former 081.042.**

081.0XCD  **Financial Management II (0-0-3-L)**  
Study of analysis of financial statements and financial information by decision makers managing the finances of farms and agricultural businesses. **Pre-requisite: 081.0XC. Students may not hold credit for 081.0XCD and the former 081.043.**

081.0YA  **Agribusiness Management (3-1-0-0)**  
The application of economic, accounting and management principles to organizing, operating and managing an agribusiness. **Students may not hold credit for 081.0YA and the former 081.060.**

091.0YB  **Agricultural Finance and Credit (0-0-3-L)**  
Application of financial management concepts in evaluating investment options and risk in farm and agribusiness decision-making. **Pre-requisite: 081.0XC. Students may not hold credit for 091.0YB and the former 081.061.**

081.0YC  **Merchandising and Sales**  
Analyzing food consumption, farm input usage and marketing trends and translating these into effective selling and distribution programs. Examination of the selling function and sales management. **Students may not hold credit for 081.0YC and the former 081.062.**

081.0YD  **Agricultural Policy (0-0-3-L)**  
Review of agriculture, international trade and food safety policies affecting the production and distribution of agricultural commodities and food products. **Students may not hold credit for 081.0YD and the former 081.064.**
061.0YE  **Farm Business Management (2-0-3-L)**
Application of decision-making principles in terms of farm production, finance, and marketing. **Prerequisite:** 061.0XD. Students may not hold credit for 061.0YE and the former 061.005.

061.0YP  **Financial Risk Management**
Various approaches to managing market risk will be studied. This includes forward pricing, hedging and options along with insurance, diversification, and technology to manage production risk. **Prerequisites:** 061.0XB and 061.0XD.

061.0YG  **Special Topics in Business Management**
Selected topics of current interest in Business Management. **Prerequisite:** written consent of Director of the School of Agriculture.

065.0XA  **Communication and Learning Skills (2-0-3)**
A course designed to improve learning skills and abilities in written and oral communication. Students may not hold credit for 065.0XA and the former 065.040.

065.0X3  **Introduction to Soils and Crops (3-1-0-0)**
Topics covered will include soil forming factors; soil characteristics, climate, nutrient supply, and crop production, biology of crop plants, crop establishment and protection, harvest management, farming systems, and crop rotations.

065.0YA  **Management Planning Project I (1-3-0-0)**
Development of an objectives-driven plan that deals with production, personnel, marketing, and financial management of a farm or off-farm business. On-site visits will be used to illustrate and reinforce management principles and practices, and address issues raised in class. **Prerequisite:** all required courses from first year. Students may not hold credit for 065.0YA and the former 065.092.

065.0YB  **Management Planning Project II (0-3-1-3)**
Refinement of the plan developed in Management Planning Project I with emphasis on generating and analyzing a complete set of financial statements for a farm or off-farm business. Presentation of the management plan in both written and verbal form. **Prerequisite:** 065.0YA. Students may not hold credit for 065.0YB and the former 065.092.

065.0YC  **Special Topics in General Agriculture**
Selected topics of current interest in General Agriculture. **Prerequisite:** written consent of Director of the School of Agriculture.
Table 1. Existing and Proposed Regulations and Program Descriptions for Diploma in Agriculture (September 22, 1999)

The following table summarizes the changes proposed for the regulations and program descriptions for the Agriculture Diploma program. All other regulations (e.g., transfers of credit, scholastic standards, etc.) remain as described for the existing program.

<table>
<thead>
<tr>
<th>Requirements for the Diploma in Agriculture</th>
<th>Requirements for the Diploma in Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>To qualify for the Diploma in Agriculture a student must have obtained a Cumulative GPA of at least 2.50 and a grade of “D” or better in courses totaling 25 credit hours including all those on the prescribed list. Elective courses in which failures were obtained may be substituted for and need not be repeated, except to help meet the requirements of the scholastic standards described previously.</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part-Time vs. Full-Time Status for Students</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A student is considered to be equivalent to full-time status if at least 60% of the normal full-time course load is attempted in that academic term or session. (A normal full-time course load is usually 17 to 20 credit hours during the regular session.) A student will be allowed to take a partial course load, with permission of the director of the School of Agriculture and the payment of pro-rated fees.</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Dean’s Honour Roll</th>
<th>Dean’s Honour Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students registered in at least 36 credit hours and who obtain a scholastic GPA of 3.5 or higher will be placed on the Dean’s Honour Roll.</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROGRAMS</th>
<th>PROGRAMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The core curriculum of prescribed courses, common to all students, provides a broad yet integrated education in the production, management, and marketing of agricultural products. Students are taught to use this knowledge to evaluate the technical and economic feasibility of a variety of alternative agricultural practices.</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prescribed Courses for all Students in Agriculture Diploma</th>
<th>Prescribed Courses for all Students in Agriculture Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year, Autumn Term</td>
<td>First Year, Fall Term</td>
</tr>
<tr>
<td>Course No.</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>031.611</td>
<td>Farm Power</td>
</tr>
<tr>
<td>035.00A</td>
<td>Animal Nutrition</td>
</tr>
<tr>
<td>039.04X</td>
<td>Crop Production Principles</td>
</tr>
<tr>
<td>040.04A</td>
<td>Farm Management</td>
</tr>
<tr>
<td>040.04A</td>
<td>Farm Business Management</td>
</tr>
<tr>
<td>050.04X</td>
<td>Farm Power Principles</td>
</tr>
<tr>
<td>056.04X</td>
<td>Introduction to Farm Business Management</td>
</tr>
<tr>
<td>058.04X</td>
<td>Farmland and Resource Management</td>
</tr>
<tr>
<td>Total credit hours</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year, Spring Term</th>
<th>First Year, Spring Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course No.</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>035.00A</td>
<td>Animal Nutrition</td>
</tr>
<tr>
<td>036.04A</td>
<td>Crop Production Principles</td>
</tr>
<tr>
<td>040.04A</td>
<td>Farm Business Management</td>
</tr>
<tr>
<td>042.04X</td>
<td>Farm Business Management II</td>
</tr>
<tr>
<td>042.04A</td>
<td>Introduction to Farm Business Management</td>
</tr>
<tr>
<td>061.04X</td>
<td>Farm Power Principles</td>
</tr>
<tr>
<td>Total credit hours</td>
<td>10</td>
</tr>
</tbody>
</table>

| plus 2 courses, according to option | plus 2 courses, according to option |

Page -24-
<table>
<thead>
<tr>
<th>Existing Program</th>
<th>Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Second Year</strong></td>
<td><strong>Second Year</strong></td>
</tr>
<tr>
<td>085.01 Farm Insects (full term)</td>
<td>085.02 Farm Management and Farm Insects (full term)</td>
</tr>
<tr>
<td>085.04 Advanced Agricultural Marketing (full term)</td>
<td>085.04 Management Planning Project I (fall term)</td>
</tr>
<tr>
<td>085.05 Agricultural and the Law (spring term)</td>
<td>085.06 Management Planning Project II (spring term)</td>
</tr>
<tr>
<td>085.08 Field Studies (summer + fall term)</td>
<td>Total credit hours</td>
</tr>
<tr>
<td>085.09 Farm Planning Project (both terms)</td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Total credit hours**

**plus courses, according to option**

**Total credit hours for prescribed courses, common for all students**

**59**

**Note:** These additional courses will consist of those required within an option plus free electives, in accordance with the four options described as follows:

**Options**

In order to accommodate a modest level of specialization, the student will be required to elect one of four options by the end of first term, first year. Each of these four options has a series of required courses. However, within each option there are also special interest electives available to the student who wishes to blend training available in two or more options areas, or to increase somewhat the degree of specialization.

**Farm and Agribusiness Option:** This option offers more in-depth education in farm business management to those people who intend to manage farms. It also is designed to prepare people for careers as farm business managers and as business owners in the agricultural services sector (agricultural lending, fertilizer, and seed and chemical sales, etc.).

Preceded Courses for Farm and Agribusiness Option

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.001</td>
<td>Agribusiness Management</td>
<td>3</td>
</tr>
<tr>
<td>085.004</td>
<td>Agricultural Policy</td>
<td>3</td>
</tr>
<tr>
<td>085.006</td>
<td>Advanced Farm Business Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.010</td>
<td>Farm Machinery</td>
<td>3</td>
</tr>
<tr>
<td>085.023</td>
<td>Water Management</td>
<td>3</td>
</tr>
<tr>
<td>085.044</td>
<td>Agricultural Buildings</td>
<td>3</td>
</tr>
<tr>
<td>085.065</td>
<td>Environment and Agricultural Buildings</td>
<td>3</td>
</tr>
<tr>
<td>085.066</td>
<td>Materials Handling and Electrical Controls</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.031</td>
<td>Farm Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>085.052</td>
<td>Merchandising and Selling</td>
<td>3</td>
</tr>
<tr>
<td>085.053</td>
<td>Farm Property Agronomy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total prescribed credit hours, within option: 15 or 15**

**Plus 21 to 22 credits of electives, to complete 95 credit hours within the program.**

**Business Management Option:** This option offers more in-depth education in business management to those people who intend to manage farms or work as employees, managers and/or business owners in the agricultural services sector (agricultural lending, fertilizer, and seed and chemical sales, etc.).

Prescribed Courses for Business Management Option

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.057</td>
<td>Agribusiness Management</td>
<td>4</td>
</tr>
<tr>
<td>085.067</td>
<td>Farm Business Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.081</td>
<td>Agricultural Finance and Credit</td>
<td>6.7 or 9</td>
</tr>
<tr>
<td>085.082</td>
<td>Marketing and Sales</td>
<td>6.7 or 9</td>
</tr>
<tr>
<td>085.083</td>
<td>Agricultural Policy</td>
<td>6.7 or 9</td>
</tr>
<tr>
<td>085.084</td>
<td>Financial Risk Management</td>
<td>6.7 or 9</td>
</tr>
</tbody>
</table>

**Plus one Elective from the following:**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>085.085</td>
<td>Farm Power</td>
<td>3</td>
</tr>
<tr>
<td>085.086</td>
<td>Water Management</td>
<td>3</td>
</tr>
<tr>
<td>085.087</td>
<td>Agricultural Buildings and Environment</td>
<td>3</td>
</tr>
<tr>
<td>085.088</td>
<td>Materials Handling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total prescribed credit hours, within option: 15 or 15**

**Plus 21-23 credit hours of electives, to complete 93 credit hours within the program.**
<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.060</td>
<td>Farm Machinery</td>
<td>4</td>
</tr>
<tr>
<td>040.060</td>
<td>Soil Conservation and Management</td>
<td>3</td>
</tr>
<tr>
<td>075.060</td>
<td>Forage Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>035.065</td>
<td>General Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>034.063</td>
<td>Water Management</td>
<td>3</td>
</tr>
<tr>
<td>039.065</td>
<td>General Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>039.065</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
</tbody>
</table>

Total prescribed credit hours within option: 19

Plus 18 credit hours of electives to complete 53 credit hours in the program.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.062</td>
<td>Weed Control</td>
<td>3</td>
</tr>
<tr>
<td>039.063</td>
<td>Plant Diseases</td>
<td>3</td>
</tr>
<tr>
<td>040.061</td>
<td>Soil Fertility and Fertilizers</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, select Orientation A or B

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.050</td>
<td>Farm Machinery</td>
<td>4</td>
</tr>
<tr>
<td>040.050</td>
<td>Soil Conservation and Management</td>
<td>3</td>
</tr>
<tr>
<td>075.050</td>
<td>Forage Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>035.055</td>
<td>Special Crops</td>
<td>3</td>
</tr>
<tr>
<td>039.055</td>
<td>General Horticulture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total prescribed credit hours within option: 24

Plus 17 credit hours of electives to complete 93 credit hours in the program.

Crop Management Option: This option is designed to emphasize soil and crop management. It is designed for people who plan to manage farms where field or horticultural crops are the primary farm enterprise or for those people who are interested in careers in industries or businesses that provide services to these types of farms (e.g., crop supply businesses).

Prescribed Courses for Crop Management Option

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.060</td>
<td>Farm Machinery</td>
<td>4</td>
</tr>
<tr>
<td>039.060</td>
<td>Plant Diseases</td>
<td>4</td>
</tr>
<tr>
<td>040.060</td>
<td>Soil Conservation and Management</td>
<td>4</td>
</tr>
<tr>
<td>040.061</td>
<td>Soil Fertility</td>
<td>1</td>
</tr>
</tbody>
</table>

Plus at least one of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>075.060</td>
<td>Forage Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>035.065</td>
<td>General Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>034.063</td>
<td>Water Management</td>
<td>3</td>
</tr>
<tr>
<td>034.065</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
</tbody>
</table>

Total prescribed credit hours within option: 19

Plus 18 credit hours of electives to complete 53 credit hours in the program.

Crop Management Orientation B - Horticulture

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>034.063</td>
<td>Water Management</td>
<td>3</td>
</tr>
<tr>
<td>039.065</td>
<td>General Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>039.065</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
</tbody>
</table>

Total prescribed credit hours within option: 24

Plus 17 credit hours of electives to complete 93 credit hours in the program.
<table>
<thead>
<tr>
<th>Existing Program</th>
<th>Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock Management Option - This option is designed to emphasize the principles of livestock production, with some degree of specialized attention to beef, dairy, swine, poultry or sheep production. It is designed for people who plan to manage farms where livestock production is the primary enterprise or for those who are interested in the agricultural service industries that support livestock production (e.g., feed suppliers).</td>
<td>Livestock Management Option - This option is designed to emphasize the principles of livestock production, with some degree of specialized attention to beef, dairy, swine, poultry or horse production. It is designed for people who plan to manage farms where livestock production is the primary enterprise or for those who are interested in the agricultural service industries that support livestock production (e.g., feed suppliers).</td>
</tr>
<tr>
<td>Prescribed Courses for Livestock Management Option</td>
<td>Prescribed Courses for Livestock Management Option</td>
</tr>
<tr>
<td>Course No.</td>
<td>Course No.</td>
</tr>
<tr>
<td>035.020</td>
<td>035.020</td>
</tr>
<tr>
<td>035.050</td>
<td>030.074</td>
</tr>
<tr>
<td>Forage Crop Production</td>
<td>Range and Pasture Management</td>
</tr>
<tr>
<td>Plan at least one of the following:</td>
<td>Plan at least one of the following:</td>
</tr>
<tr>
<td>035.021</td>
<td>035.021</td>
</tr>
<tr>
<td>Beef Cattle</td>
<td>Beef Cattle</td>
</tr>
<tr>
<td>035.022</td>
<td>035.022</td>
</tr>
<tr>
<td>Dairy Cattle Production</td>
<td>Dairy Cattle Production</td>
</tr>
<tr>
<td>035.023</td>
<td>035.023</td>
</tr>
<tr>
<td>Sheep Production</td>
<td>Sheep Production</td>
</tr>
<tr>
<td>Plan at least one of the following:</td>
<td>Plan at least one of the following:</td>
</tr>
<tr>
<td>035.024</td>
<td>035.024</td>
</tr>
<tr>
<td>Swine Production</td>
<td>Swine Production</td>
</tr>
<tr>
<td>035.025</td>
<td>035.025</td>
</tr>
<tr>
<td>Poultry Principles and Practices</td>
<td>Poultry Principles and Practices</td>
</tr>
<tr>
<td>Plan at least one of the following:</td>
<td>Plan at least one of the following:</td>
</tr>
<tr>
<td>034.060</td>
<td>034.060</td>
</tr>
<tr>
<td>Farm Machinery</td>
<td>Farm Machinery</td>
</tr>
<tr>
<td>034.065</td>
<td>034.065</td>
</tr>
<tr>
<td>Environment in Agricultural Buildings</td>
<td>Environment in Agricultural Buildings</td>
</tr>
<tr>
<td>3 or 4</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Total prescribed credit hours, within option 13 or 16</td>
<td>Total prescribed credit hours, within option 19</td>
</tr>
<tr>
<td>Plan 21 or 22 credit hours of electives, to complete 99 credit hours in the program.</td>
<td>Plus 22 credit hours of electives, to complete 93 credit hours in the program.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Existing Program</td>
<td>Proposed Program</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>General Agriculture Option</strong>&lt;br&gt;This option is designed to expose the student to crop and livestock production, agricultural economics&lt;br&gt;and agricultural engineering beyond the exposure contained in the core curriculum. It is designed for those people who intend to manage diversified farm operations and for those who desire a general education in applied agricultural science.</td>
<td><strong>General Agriculture Option</strong>&lt;br&gt;This option is designed to expose the student to crop and livestock production, agricultural economics&lt;br&gt;and agricultural engineering beyond the exposure contained in the core curriculum. It is designed for those people who intend to manage diversified farm operations and for those who desire a general education in applied agricultural science.</td>
</tr>
<tr>
<td><strong>Prescribed Courses for General Agriculture Option</strong>&lt;br&gt;Course No.</td>
<td><strong>Prescribed Courses for General Agriculture Option</strong>&lt;br&gt;Course No.</td>
</tr>
<tr>
<td>Course No.</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>034.466</td>
<td>Materials Handling and Electrical Controls</td>
</tr>
<tr>
<td>034.469</td>
<td>Farm Machinery</td>
</tr>
<tr>
<td>034.461</td>
<td>Welding</td>
</tr>
<tr>
<td>034.462</td>
<td>Shop Methods</td>
</tr>
<tr>
<td>034.463</td>
<td>Water Management</td>
</tr>
<tr>
<td>034.464</td>
<td>Agricultural Buildings</td>
</tr>
<tr>
<td>02-1465</td>
<td>Environment in Agricultural Buildings</td>
</tr>
<tr>
<td>034.461</td>
<td>Beef Cattle</td>
</tr>
<tr>
<td>033.462</td>
<td>Dairy Cattle Production</td>
</tr>
<tr>
<td>033.463</td>
<td>Sheep Production</td>
</tr>
<tr>
<td>033.464</td>
<td>Swine Production</td>
</tr>
<tr>
<td>033.465</td>
<td>Poultry Principles and Practices</td>
</tr>
<tr>
<td>033.469</td>
<td>Forage Crop Production</td>
</tr>
<tr>
<td>039.461</td>
<td>Special Crops</td>
</tr>
<tr>
<td>039.463</td>
<td>General Horticulture</td>
</tr>
<tr>
<td>033.460</td>
<td>Soil Conservation and Management</td>
</tr>
<tr>
<td>043.07A</td>
<td>Soil Conservation and Management</td>
</tr>
<tr>
<td>043.060</td>
<td>Special Crops</td>
</tr>
<tr>
<td>043.066</td>
<td>General Horticulture</td>
</tr>
<tr>
<td>043.060</td>
<td>Soil Conservation and Management</td>
</tr>
<tr>
<td>043.066</td>
<td>Special Crops</td>
</tr>
<tr>
<td>061.07A</td>
<td>Agronomy Management</td>
</tr>
<tr>
<td>061.07B</td>
<td>Agricultural Policy</td>
</tr>
<tr>
<td>Total prescribed credit hours, within option: 19 or 20</td>
<td>Total prescribed credit hours, within option: 20</td>
</tr>
</tbody>
</table>

Plan 11 or 18 credit hours of electives, to complete 93 credit hours in the program.
<table>
<thead>
<tr>
<th>Existing Program</th>
<th>Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional Courses</strong> (includes electives and courses required within options)</td>
<td><strong>Course No.</strong></td>
</tr>
<tr>
<td><strong>Course No.</strong></td>
<td><strong>Credit Hours</strong></td>
</tr>
<tr>
<td>033.060 Farm Machinery</td>
<td>6</td>
</tr>
<tr>
<td>034.061 Welding</td>
<td>2</td>
</tr>
<tr>
<td>034.062 Shop Methods</td>
<td>2</td>
</tr>
<tr>
<td>034.063 Water Management</td>
<td>3</td>
</tr>
<tr>
<td>034.064 Agricultural Buildings</td>
<td>3</td>
</tr>
<tr>
<td>034.065 Environment in Agricultural Buildings</td>
<td>3</td>
</tr>
<tr>
<td>034.066 Materials Handling and Electrical Controls</td>
<td>4</td>
</tr>
<tr>
<td>035.069 Animal Health and Welfare</td>
<td>3</td>
</tr>
<tr>
<td>035.07A Beef Cattle</td>
<td>4</td>
</tr>
<tr>
<td>035.07B Dairy Cattle Production</td>
<td>3</td>
</tr>
<tr>
<td>105.065 Sheep Production</td>
<td>3</td>
</tr>
<tr>
<td>035.064 Swine Production</td>
<td>3</td>
</tr>
<tr>
<td>035.065 Finance Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>035.066 Horse Production and Management</td>
<td>3</td>
</tr>
<tr>
<td>035.067 Bookkeeping</td>
<td>2</td>
</tr>
<tr>
<td>035.068 Forage Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>035.069 Special Crops</td>
<td>3</td>
</tr>
<tr>
<td>035.070 Wood Control</td>
<td>3</td>
</tr>
<tr>
<td>035.071 Plant Diseases</td>
<td>3</td>
</tr>
<tr>
<td>035.072 General Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>035.073 Plant Propagation</td>
<td>4</td>
</tr>
<tr>
<td>035.074 Landscape Plans</td>
<td>3</td>
</tr>
<tr>
<td>035.075 Landscape Design and Construction</td>
<td>3</td>
</tr>
<tr>
<td>035.076 Nursery Management</td>
<td>3</td>
</tr>
<tr>
<td>035.077 Greenhouse Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>035.078 Commercial Vegetable Production</td>
<td>3</td>
</tr>
<tr>
<td>035.079 Commercial Fruit Production</td>
<td>3</td>
</tr>
<tr>
<td>035.080 Soil Conservation and Management</td>
<td>3</td>
</tr>
<tr>
<td>035.081 Soil Fertility and Fertilizers</td>
<td>3</td>
</tr>
<tr>
<td>041.061 Agricultural Marketing</td>
<td>3</td>
</tr>
<tr>
<td>041.062 Farm Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>041.063 Marketing and Selling</td>
<td>3</td>
</tr>
<tr>
<td>041.064 Farm Business Management</td>
<td>3</td>
</tr>
<tr>
<td>041.065 Advanced Farm Business Management</td>
<td>3</td>
</tr>
<tr>
<td>045.061 Advanced Communication and Rural Leadership</td>
<td>3</td>
</tr>
<tr>
<td>045.062 Advanced Agriculture and Rural Leadership</td>
<td>3</td>
</tr>
<tr>
<td>045.063 Special Project</td>
<td>3</td>
</tr>
</tbody>
</table>
Department of Food Science

Courses to be deleted:

078.427 Market Milk Technology  
078.453 Processing of Plant Food Products

Courses to be introduced:

078.4XX  Introduction to Hazard Analysis and Critical Control Points (HACCP)  
This course will cover the principles related to hazard analysis and critical control points (HACCP), a food safety and self-inspection system that is widely endorsed internationally by industry, consumer and regulatory groups. HACCP examines chemical, physical and biological hazards and identifies critical control points involved in producing, manufacturing and processing of food products.

078.3XX  Baking Science and Technology (0-0-3-L)  
The science and technology of transforming wheat into quality baked foods. Focus will be on the biophysical and biochemical basis for the functionality of intrinsic wheat constituents, e.g. starch, and gluten proteins, and extrinsic ingredients, e.g. yeast, chemical leaveners, fats, oxidants, enzymes and other improvers. Principles of product formulations and modern processing techniques used to add value to wheat as diverse foods will also be covered.

NET CHANGE IN CREDIT HOURS: 0

New Introductory Economics Courses

Students will be permitted to take either 018.120 Principles of Economics or both 018.121 Introduction to Canadian Economic Issues and Policies and 018.122 Introduction to Global Environmental Economic Issues and Policies.

NET CHANGE IN CREDIT HOURS: 0

2. Faculty of Arts

Canadian Studies

Course to be introduced:

099.3XX  Canadian Identity in the 20th Century: An Interdisciplinary Approach  
An interdisciplinary lecture/seminar (art, economics, history, literature) course which will explore Canadian identity in the 20th century. Themes to be studied include the Aboriginal past, French/English colonization, land regions and ethnic diversity. Pre-requisite: 089.113 or six credit hours from the list of approved courses in Canadian Studies.

NET CHANGE IN CREDIT HOURS: +3
List of Approved Course in Canadian Studies

**History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>011.428</td>
<td>Topics in the Cultural History of Canada (C)</td>
</tr>
<tr>
<td>011.434</td>
<td>An Introduction to Archival Science (G) (H)</td>
</tr>
<tr>
<td>011.438*</td>
<td>Intellectual History of Canada (C) (H)</td>
</tr>
</tbody>
</table>

**Icelandic**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>012.223</td>
<td>Contemporary Icelandic-Canadian Literature</td>
</tr>
<tr>
<td>012.230</td>
<td>Icelandic-Canadian Literature (H)</td>
</tr>
<tr>
<td>012.346</td>
<td>Laura Goodman Salvorson</td>
</tr>
<tr>
<td>012.444</td>
<td>The Icelanders in Canada (H)</td>
</tr>
<tr>
<td>012.445</td>
<td>Stephan G. Stephansson (H)</td>
</tr>
</tbody>
</table>

**Interdisciplinary Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>099.113</td>
<td>An Introduction to Canadian Studies</td>
</tr>
<tr>
<td>099.231*</td>
<td>The Documentary and Canadian Film</td>
</tr>
<tr>
<td>099.243</td>
<td>The Canadian film</td>
</tr>
<tr>
<td>099.310</td>
<td>The Ukrainian Arts in Canada</td>
</tr>
<tr>
<td>099.3XX</td>
<td>Canadian Identity in the 20th Century. An Interdisciplinary Approach</td>
</tr>
<tr>
<td>099.441</td>
<td>Seminar in Canadian Studies (H)</td>
</tr>
</tbody>
</table>

(no further changes)

(Material to be added)
### Department of Classics

**Courses to be deleted:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>003.094</td>
<td>New Testament Greek</td>
<td>-6</td>
</tr>
<tr>
<td>003.095</td>
<td>Introduction to the Reading of Ancient Greek</td>
<td>-6</td>
</tr>
<tr>
<td>003.096</td>
<td>Introduction to the Reading of Latin</td>
<td>-6</td>
</tr>
<tr>
<td>003.124</td>
<td>Greek and Roman Culture and Civilization</td>
<td>-6</td>
</tr>
</tbody>
</table>

**Courses to be introduced:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>003.1AA</td>
<td>New Testament Greek</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>The grammar and syntax of New Testament Greek. Normally taught only in the Approved Teaching Centres. May be used for credit toward the Major or Minor in Greek only with written consent of department head. Students may not hold credit for both 003.1AA and 003.1AB or any of the former 003.095, 003.094 or 003.095.</td>
<td></td>
</tr>
<tr>
<td>003.1AB</td>
<td>Introduction to the Reading of Ancient Greek</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Readings in Ancient Greek Poetry and Prose with related exercises in grammar and composition intended to prepare students to read Classical and Hellenistic Greek. Students may not hold credit for both 003.1AB and 003.1AA or any of the former 003.093, 003.094 or 003.096.</td>
<td></td>
</tr>
<tr>
<td>003.1AC</td>
<td>Introduction to the Reading of Latin</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Readings in Latin prose and poetry with related exercises in grammar and composition with the aim of preparing students to read Classical and Medieval Latin. Students may not hold credit for both 003.1AC and either of the former 003.092 or 003.096.</td>
<td></td>
</tr>
<tr>
<td>003.1BB</td>
<td>Introductory Modern Greek I</td>
<td>+3</td>
</tr>
<tr>
<td></td>
<td>A practical introduction to the written and spoken language for those with little or no knowledge of Modern Greek. Personal instruction in script, vocabulary, aural comprehension, pronunciation and syntax is supplemented with the use of audio recording in the laboratory or via other media such as the Internet. Not for credit towards the major or minor in Classical Studies.</td>
<td></td>
</tr>
<tr>
<td>003.1BC</td>
<td>Introductory Modern Greek II</td>
<td>+3</td>
</tr>
<tr>
<td></td>
<td>The continuation of 003.1BB with further personal instruction in vocabulary, aural comprehension, pronunciation and syntax supplemented with the use of audio recordings in the laboratory or via other media such as the Internet. Pre-requisite: 003.1BB or written consent of department head. Not for credit towards the major or minor in Classical Studies.</td>
<td></td>
</tr>
<tr>
<td>003.1CA</td>
<td>Introduction to Ancient Greek Culture</td>
<td>+3</td>
</tr>
<tr>
<td></td>
<td>Ancient archaeological and literary evidence (in English translation) is the basis for a survey of the major social, political, religious, intellectual, artistic and literary institutions and achievements of the Greeks from the Bronze Age to the early Roman Imperial period. The Greeks are studied in the context of the Ancient Mediterranean world but also with reference to their continuing contributions to world civilization. Students may not hold credit for both 003.1CA and the former 003.124.</td>
<td></td>
</tr>
<tr>
<td>003.1CB</td>
<td>Introduction to Ancient Roman Culture</td>
<td>+3</td>
</tr>
<tr>
<td></td>
<td>Ancient archaeological and literary evidence (in English translation) is the basis for a survey of the major social, political, religious, intellectual, artistic and literary institutions and achievements of the Roman monarchy to onset of the Middle Ages. The Romans are studied in the context of the Ancient Mediterranean world but also with reference to their continuing contributions to world civilization.</td>
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</table>
Students may not hold credit for both 003.1CB and the former 003.124.

NET CHANGE IN CREDIT HOURS: +6
### CLASICAL STUDIES (003C)

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<tr>
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<th>YEAR III</th>
<th>YEAR IV</th>
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<tr>
<td>MAJOR</td>
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<td>Total: 48 hours of credit</td>
<td>003.1CA</td>
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<td>003.1CB</td>
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<th>YEAR III</th>
<th>YEAR IV</th>
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<tr>
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<td>003.1CB</td>
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(no changes to footnotes)

### 8.5.1 Program Information - Classical Studies

**Major Program**

(no changes)

**General Major**

A General Major in Classical Studies consists of 003.124 003.1CA and 003.1CB plus 24 hours of credit in Classical Studies. (no further changes to this paragraph)

**Advanced Major**

An Advanced Major in Classical Studies consists of 003.124 003.1CA and 003.1CB plus 24 hours of credit in Classical Studies. (no further changes to this paragraph)

**Minor Program**

(no changes)

**Minor**

A Minor in Classical Studies consists of 003.124 003.1CA and 003.1CB plus 24 hours of credit in Classical Studies. (no further changes)
### GREEK (003G)

<table>
<thead>
<tr>
<th>PROGRAM</th>
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<td>MAJOR</td>
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<tr>
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### 8.5.2 Program Information - Greek

**Major Program**

For entry to the Major, the prerequisite is a grade of “C” or better in 003.995 003.7AB or written consent of the department head. (no further changes to this paragraph)

(no change to next paragraph)

**Minor Program**

For entry to the Minor, the prerequisite is a grade of “C” or better in 003.995 003.7AB or written consent of the department head.

Combinations of courses for the Advanced Major and Minor programs, other than those listed above, may be permitted by written consent of the department head.

The following are civilization courses: 003.124, 003.1CA, 003.1CB, 003.246, 003.249, 003.260, 003.261, 003.267, 003.268, 003.271, 003.365, 003.366, 003.367, 003.371, 003.372, 003.373.

(no further changes)
## LATIN

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<th>PROGRAM</th>
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<td>MINOR</td>
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Total: 48 hours of credit

Total: 18 hours of credit

### 8.5.3 Program Information - Latin

**Major Program**

For entry to the Major, the prerequisite is a grade of "C" or better in 003:096 or written consent of the department head. (no further changes to this paragraph)

(no change to next paragraph)

**Minor Program**

For entry to the Minor, the prerequisite is a grade of "C" or better in 003:096 or written consent of the department head.

Combinations of courses for the Advanced Major and Minor programs, other than those listed above, may be permitted by written consent of the department head.

The following are civilization courses: 003:124; 003:1CA; 003:1CB; 003:246; 003:249; 003:260; 003:261; 003:267; 003:268; 003:271; 003:365; 003:366; 003:367; 003:371; 003:372; 003:373.

(no further changes)
Department of Economics

Courses to be introduced:

018.2XX  Political Economy I: Production and Distribution +3
A study of the theories, institutions, policies and relations of power in national and global economic society with reference to the production of market and non-market goods and services and the distribution of necessary and surplus output. Particular attention will be given to the role of the state in the regulation of markets and the distribution of surplus. Pre-requisite: 018.120 or both 018.121 and 018.122.

018.2XY  Political Economy II: Economic Growth and Fluctuations in a Global Environment +3
A study of the theories, institutions, policies and relations of power in national and global economic society with reference to economic growth, international trade and finance, economic fluctuations, inflation and unemployment. Particular attention will be given to the role of the state in the regulation of macroeconomic activity. Pre-requisite: 018.120 or both 018.121 and 018.122.

NET CHANGE IN CREDIT HOURS: +6

Film Studies Programme

Course to be introduced:

099.3LM  Advanced Filmmaking +3
This course is for students who have taken 099.314 Basic Filmmaking and offers an opportunity to pursue longer, more technically ambitious work. Students are required to shoot one (1) 10 minute 16mm film; transfer that film to video; edit and soundtrack it. Pre-requisite: a grade of "C+" or better in 099.344 and written consent of instructor.

NET CHANGE IN CREDIT HOURS: +3
Proposed modifications to the list of specified courses for the Film Major (Advanced)
1999/2000 General Calendar Page xxx

New material is shown highlighted
Deleted material is shown struck-out

List A
Faculty of Arts
Classics
003.269  Greek Literature in Translation  3
003.270  Latin Literature in Translation  3
003.368  Studies in a Classical Literary Genre I  3
003.369  Studies in a Classical Literary Genre II  3
003.370  Studies in a Classical Literary Genre III  3

English
004.120  Representative Literary Works  6
004.126  Twentieth-Century Literature in English  6
004.131  Literary Topics I  3
004.132  Literary Topics II  3
004.227*  Canadian Literature  6
004.234*  American Literature  6
004.235*  American Literature of the Twentieth Century  6
004.244*  Twentieth Century British Literature  6
004.250  Writing and Gender  3
004.285  British Literature of the Twentieth Century  3
004.286  American Literature to 1900  3
004.287  American Literature of the Twentieth Century  3
004.288  Canadian Literature to 1967  3
004.289  Canadian Literature after 1967  3
004.290  Genre  3
004.293  International Literature  3
004.296  Drama I  3
004.297  Drama II  3
004.310  Studies in Shakespeare  6
004.332*  Shakespeare  6
004.333*  Drama  6
004.334*  The Novel in English  6
004.350  Creative Writing  6
004.353  Forms of Discourse  6
004.360  Studies in Writing and Gender  6
004.367  Studies in the Novel  6
004.377*  Canadian Poetry  6
004.378*  The Canadian Novel  6
004.379  Advanced Creative Writing  6
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<tr>
<td>004.385</td>
<td>Contemporary American Novel</td>
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<tr>
<td>004.387</td>
<td>Studies in American Literature</td>
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<tr>
<td>004.388</td>
<td>Studies in Canadian Literature</td>
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<tr>
<td>004.391</td>
<td>Studies in Modern Literature</td>
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<td>004.392</td>
<td>Studies in Post-Modernism</td>
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<td>004.393</td>
<td>Studies in International Literature</td>
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<tr>
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<tr>
<td></td>
<td>French, Spanish and Italian</td>
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<tr>
<td>044.240</td>
<td>Le roman du 19e siècle (B)</td>
<td>3</td>
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<tr>
<td>044.241</td>
<td>Littérature du 18e siècle (B)</td>
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<td>044.242</td>
<td>Le théâtre du 20e siècle (B)</td>
<td>3</td>
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<td>044.243</td>
<td>Civilisation française (B)</td>
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<tr>
<td>044.350</td>
<td>Littérature du 17e siècle (B)</td>
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<td>044.351</td>
<td>Roman du 20e siècle (B)</td>
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<td>044.352</td>
<td>Poésie des 19e et 20e siècles (B)</td>
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<td>044.353</td>
<td>Littérature canadienne-française (B)</td>
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<td>044.358</td>
<td>Travail indépendant (A, B)</td>
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<tr>
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<td>German and Slavic Studies</td>
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<td>008.223</td>
<td>A Survey of German Culture</td>
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<td>008.237</td>
<td>Modern German Literature in Translation</td>
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<td>008.249</td>
<td>Introduction to German Literature Since 1500</td>
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<td>008.336</td>
<td>German Literature of the Twentieth Century</td>
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<td>Nineteenth-Century German Prose</td>
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<td>008.460</td>
<td>Twentieth-Century German Drama</td>
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<td>052.242</td>
<td>Ukrainian Canadian Literature</td>
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<td>052.363</td>
<td>Ukrainian Novel</td>
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<td>052.366</td>
<td>Ukrainian Literature in the West</td>
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<td>052.367</td>
<td>Contemporary Ukrainian Literature</td>
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<td>052.369</td>
<td>Ukrainian Masterworks in Translation</td>
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<td>052.453</td>
<td>Studies in the Russian Novel</td>
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<td>052.454</td>
<td>Modernism in Russian Literature</td>
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<td>052.455</td>
<td>Contemporary Russian Literature</td>
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<td>052.232</td>
<td>An Outline of Polish Literature</td>
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<td>Near Eastern and Judaic Studies</td>
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<td>055.221</td>
<td>Modern Hebrew Literature</td>
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List B
Faculty of Arts

Theatre

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<td>099.206*</td>
<td>History of the Theatre</td>
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<td>099.215</td>
<td>Theatrical Techniques: Onstage</td>
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<td>099.247</td>
<td>Fundamentals of Dramatic Analysis</td>
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<td>099.248</td>
<td>Theatre History</td>
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<td>099.321*</td>
<td>Contemporary Theatre Forms</td>
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<td>099.346</td>
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* No longer offered

School of Art

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or

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<td>054.340</td>
<td>Principles of Art Criticism</td>
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<td>054.358</td>
<td>Modern Art I</td>
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<td>054.369</td>
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<td>054.370</td>
<td>Modern Art III</td>
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NOTE: Combinations of courses for the Major and Minor programs, other than those listed above, may be permitted by written consent of the Chair of the Film Studies Committee.
Department of French, Spanish & Italian

French

Course to be deleted:
044.092 Introductory French

Course to be introduced:
044.1XX Introductory French
A study of the fundamental structures of French, with oral and written practice. For students with no prior knowledge of French, or who have studied French up to and including Senior 3 level or its equivalent. Students with Senior 4 French may not normally take the course. Not open to students who have previously obtained credit in 044.119, 044.120 or 044.125. Not for credit in French Major or Minor. Students may not hold credit for both 044.1XX and the former 044.092.

Courses to be modified:

044.120 French I (6)
Language study and practice in the classroom and language laboratory, and readings in French and French-Canadian culture. Students may not hold credit for both 044.120 and 044.119. Pre-requisite: Senior Matriculation French or "C" or better in 044.1XX (the former 044.092).

044.262 Grammaire et lexique (A) (3)
Revision intensive de la grammaire et enrichissement du vocabulaire. Students having obtained a grade of "B" in 044.120 or "C+" in 044.119 may not normally take 044.262 for credit. Pre-requisite: Exactly a "C" in 044.119 or exactly a "C" or "C+" in 044.120, or written consent of department head.
8.11 FRENCH, SPANISH AND ITALIAN (044)
8.11.1 Program Information: French (044F)

FRENCH (044F)
Acting Head: A. Osborne

(no changes to table)

Major Program
(no changes)

Minor Program
(no changes)

Honours Program
(no changes)

Other
(no changes to first paragraph)

The Language of instruction in all French courses except 044.1XX, 044.992 and 044.120 is French. In courses 044.1XX, 044.992 and 044.120, at the discretion of the instructor, English may be used to clarify difficult points of grammar and critical analysis of literature.

(no further changes)
Spanish

Course to be deleted:

044.090 Introductory Spanish

Course to be introduced:

044.1YY Introductory Spanish
A course designed for those with little or no previous knowledge of Spanish. The course includes grammar, reading and oral practice, with language laboratory exercises. An oral approach is utilized. The student is given glimpses of cultural aspects of Spain and Spanish America. Students with Grade 12 Spanish may not normally take the course for credit. Not open to students who have previously obtained credit in 044.126 or the former 044.122. Students may not hold credit for both 044.1YY and the former 044.090.

Courses to be modified:

044.126 Intermediate Spanish Language Review (3)
Intensive language review for students who have completed 044.1YY (the former 044.090) or who have been granted pre-requisite standing in 044.1YY (the former 044.090). Language study and practice in the classroom and language laboratory. Students may not hold credit for both 044.126 and the former 044.122. Pre-requisite: 044.1YY (the former 044.090) or written consent of department head.

044.220 Spanish American Culture and Civilization (3)
A picture of the geographical, political, economic, social, artistic and cultural forces in Latin America. Essays, cultural readings, newspaper articles, magazines and films are utilized to enhance awareness and to stimulate discussion. Pre-requisite: 044.125 or 044.127, or written consent of department head.

044.251 Survey of Spanish Civilization (3)
A study of the history of Spanish culture with special stress on its non-literary arts, and selected aspects of Spanish life. Students may not hold credit for both 044.251 and the former 044.222. Pre-requisite: 044.126 or 044.127, or written consent of department head.

044.252 Introduction to Spanish Literature (3)
This course will consist of an introduction to Spanish literary characteristics and the study of selected works from the major historical periods and genres. Students may not hold credit for both 044.252 and the former 044.222. Pre-requisite: 044.126 or 044.127, or written consent of department head.

044.253 Spanish American Literature I (3)
Spanish American Literature from Colonial Times to Modernism. The chronicles, lyric poetry, and age of rebellion, romanticism, modernism, are studied through selections from the works of Major figures. Students may not hold credit for both 044.253 and the former 044.225. Pre-requisite: 044.126 or 044.127, or written consent of department head.
Spanish American Literature II (3)
Spanish American Literature from Realism to Post-vanguardism. Realism, the novel of the Mexican revolution, post-modernist to post-vanguardist poetry, the contemporary narrative, are studied through selections from the works of major figures. Students may not hold credit for both 044.254 and the former 044.223. Prerequisite: 044.129 or 044.127, or written consent of department head.
Proposed modification to Spanish Majors and Minor Programs
1999-2000 General Calendar - Page 103

8.11.3 Program Information: Spanish (044S)
SPANISH
Acting Head: A. Osborne

<table>
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<td>(no changes)</td>
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<tr>
<td>MINOR</td>
<td>044.1XY</td>
<td>(no changes)</td>
<td>(no changes)</td>
<td>(no changes)</td>
</tr>
<tr>
<td></td>
<td>044.090</td>
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<td>Total: 18 hours of credit</td>
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<td></td>
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<tr>
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<td>(no changes)</td>
<td>(no changes)</td>
<td>(no changes)</td>
<td>(no changes)</td>
</tr>
</tbody>
</table>

(no changes to footnotes)

Major Program
For entry to the Major, the prerequisite is a grade of "C" or better in 044.1XY (the former 044.090) 044.090 or "C" or better in both 044.126 and 044.127.

Minor Program
For entry to the Minor, the prerequisite is a grade of "C" or better in 044.1XY (the former 044.090) 044.090 or "C" or better in both 044.126 and 044.127.
Other

Students entering the University with prior knowledge of Spanish may be allowed 'prerequisite standing' in course 044.1XY 044-090 by the Spanish section of the department. Special permission is required to enter a higher numbered course.

All Spanish courses except 044.1XY 044-090 are taught in Spanish

(no further changes)

Indicates material to be added

Indicates material to be deleted
Italian

Courses to be deleted:

044.091  Introductory Italian  5
044.123  Intermediate Italian  5
044.260  Advanced Italian  5

Courses to be introduced:

044.1ZZ  Introductory Italian  6
An introduction to the Italian language for students with little or no knowledge of Italian. The course emphasizes the learning and practice of vocabulary, grammar and the development of both written and spoken Italian. A language laboratory will help students practice and improve their oral Italian. Not open to students who have previously obtained credit in 044.2ZZ or the former 044.123. Students may not hold credit for both 044.1ZZ and the former 044.091.

044.2ZZ  Intermediate Italian  6
This course consists of a thorough review of grammatical structures for students with previous knowledge of Italian. Readings of a number of twentieth-century Italian authors are used as a basis for discussion. Language study and practice is emphasized in the classroom and in the language laboratory. Pre-requisites: 044.1ZZ or the former 044.091 or written consent of department head. Students may not hold credit for both 044.2ZZ and the former 044.123.

044.3ZZ  Advanced Italian  6
A selection of important works of 20th-century literature will be studied with special emphasis on realism and its impact on contemporary Italian culture. Part of the course will be devoted to reviewing problems of grammar, vocabulary and syntax. Composition and conversation are an integral part of this course, which will be taught wholly in Italian. Selections from authors and articles dealing with present-day issues are used as a basis for discussion in Italian. Selections will include writings by Silone, Buzzati, Calvino, Pirandello, Pavese and Solasio. Pre-requisites: 044.2ZZ or the former 044.123 or written consent of department head. Students may not hold credit for both 044.3ZZ or the former 044.260.

NET CHANGE IN CREDIT HOURS: 0
8.11.5 Program Information: Italian (0441)
ITALIAN
Acting Head: A. Osborne

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>YEAR I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
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<tr>
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<td>044.139</td>
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Minor Program
For entry to the Minor, the prerequisite is a grade of "C" or better in 044.12Z 044.091.

Other
All Italian courses except 044.12Z 044.091 are taught in Italian.

(no further changes)

Indicates material to be added
indicates material to be deleted
Department of German & Slavic Studies (German)

Courses to be deleted:

<table>
<thead>
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<th>Course Description</th>
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<tr>
<td>008.091</td>
<td>Beginning German</td>
<td>-6</td>
</tr>
<tr>
<td>008.091F</td>
<td>Introduction à l'allemand</td>
<td>-6</td>
</tr>
<tr>
<td>008.120</td>
<td>Intermediate German</td>
<td>-6</td>
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<tr>
<td>008.120F</td>
<td>Allemand Intermédiaire</td>
<td>-6</td>
</tr>
<tr>
<td>008.123</td>
<td>Continuing German: Grammar, Exercises, Selected Texts</td>
<td>-6</td>
</tr>
<tr>
<td>008.225</td>
<td>Deutsche Sprachpraxis I</td>
<td>-6</td>
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<tr>
<td>008.228</td>
<td>Business German</td>
<td>-6</td>
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<tr>
<td>008.228F</td>
<td>Cours d'allemand commercial</td>
<td>-6</td>
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Courses to be introduced:

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<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>008.1XX</td>
<td>Elementary German</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Four hours language and literature, plus language laboratory work. This course will not normally be offered at the University, but is given at the Canadian Mennonite Bible College. Students may not hold credit for both 008.1XX and 008.1XY or the former 008.090 or the former 008.091. Not open to students who have previously obtained credit for 008.2XX (the former 008.120).</td>
<td></td>
</tr>
<tr>
<td>008.1XYF</td>
<td>Introduction à l'allemand</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Trois heures de cours plus une heure de laboratoire de langue et une heure de conversation par semaine. Le cours est destiné aux étudiants aux étudiantes n'ayant aucune connaissance de l'allemand ou n'en ayant qu'une connaissance minime. Le cours comportera une initiation à la grammaire fondamentale mais l'accent sera mis sur le développement d'aptitudes à la lecture et à la conversation. La réussite à ce cours permet à l'étudiant(e) d'entrer dans les cours d'allemand 008.220 ou 008.221. Les étudiants ne peuvent pas cumuler les crédits des cours 008.111 et 008.110. Les étudiants qui possèdent déjà les crédits du cours d'allemand de secondaire 4 ou équivalent ne peuvent s'inscrire à ce cours. Les étudiants qui auraient déjà obtenu des crédits pour le 008.120 ou 008.123 ou l'ancien 008.091 ne peuvent pas s'inscrire à ce cours.</td>
<td></td>
</tr>
<tr>
<td>008.1XY</td>
<td>Beginning German</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Three hours of lectures, plus one hour each of language lab and conversation 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 008.2XX (the former 008.120) or 008.2XY (the former 008.123). Students may not hold credit for both 008.1XY and 008.1XX or the former 008.091 or the former 008.090. 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 008.2XX (the former 008.120) or 008.2XY (the former 008.123).</td>
<td></td>
</tr>
<tr>
<td>008.2XX</td>
<td>Intermediate German</td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Three hours of lectures and one hour of conversation class per week. Grammar review, exercises, development of practical oral skills, conversation and modern usage. Introduction to German poetry and prose. Students may not hold credit for both 008.2XX and 008.2XY or the former 008.120 or the former 008.123. Pre-requisite: Senior matriculation German, or 008.1XX (the former 008.090) or 008.1XY (the former 008.091), or written consent of department head.</td>
<td></td>
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</tbody>
</table>
008.2XXF  **Allemann intermédiaire**
Trois heures de cours et une heure de conversation par semaine. Révision de la grammaire, exercices, développement de l'expression orale et conversation. Introduction à la poésie et à la prose allemandes. Les étudiants ne peuvent pas cumuler les crédits pour le 008.220 et le 008.221 ou l'ancien 008.120. Préalable : Allemand de 12 années, une note de <C> ou plus dans le 008.110 ou 008.111 ou l'ancien 008.091 ou l'autorisation du professeur.

008.2XY  **Continuing German; Grammar, Exercises, Selected Texts**
Three hours of lectures and one hour of language lab work per week. A study of German grammar extending beyond that of course 008.1XY, but again emphasizing the development of reading and speaking skills. Like 008.2XX this course enables students to take 200 level courses. Students may not hold credit for both 008.2XY and 008.2XX or the former 008.123 or the former 008.120. Prerequisite: 008.1XY (the former 008.091) or written consent of department head.

008.3XX  **Deutsche Sprachpraxis I**
Modern German usage through conversation, translation (English-German) and practical exercises; study of contemporary fictional and non-fictional texts. Emphasis on vocabulary and basic structural and stylistic problems. Students may not hold credit for both 008.3XX and 008.3XY or the former 008.225 or the former 008.226. Prerequisite: 008.2XX (the former 008.120) or 008.2XY (the former 008.123).

008.3XY  **Business German**
Exercises in oral and written German and translation designed to improve the student's vocabulary and ability to understand the language of economics and commerce. A review of grammar is included, but the main emphasis of the course is on the development of practical language skills. Students may not hold credit for both 008.3XY and 008.3XX or the former 008.225 or the former 008.226. Prerequisite: 008.2XX (the former 008.120) or 008.2XY (the former 008.123) or written consent of department head.

008.3XYF  **Cours d'allemand commercial**
Initiation, au moyen d'exercices oraux et écrits, au vocabulaire commercial et aux techniques d'écriture dans le domaine des affaires. Une révision de la grammaire allemande est prévue mais l'accent sera mis sur la composition et la conversation appliquées au domaine commercial. L'étudiant(e) ne peut se faire créditer à la fois le 008.331 et le 008.330 ou l'ancien 008.226. Préalable : le 008.120, ou 008.123 ou l'approbation écrite du professeur ou de la professeure.

**NET CHANGE IN CREDIT HOURS:**

0
### 3.13 German and Slavic Studies

3.13.1 Program Information: German (008)

**German (008)**

*Acting Head: M. Shkandrij*

<table>
<thead>
<tr>
<th>Program</th>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
<th>Year IV</th>
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<td><strong>General</strong></td>
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<td>606.126</td>
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<tr>
<td>Total: 30 hours of credit</td>
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<td></td>
</tr>
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<td></td>
<td>608.691</td>
<td>606.123 or 606.123</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>008.2XX or 008.2XY</td>
<td>(no changes)</td>
<td>(no changes)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>008.1XX or 008.2XY</td>
<td>(no changes)</td>
<td>(no changes)</td>
<td></td>
</tr>
<tr>
<td><strong>Advanced</strong></td>
<td>008.1XX</td>
<td>008.2XX</td>
<td>(no changes)</td>
<td>(no changes)</td>
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<td><strong>Major</strong></td>
<td>008.690</td>
<td>606.126</td>
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<td>Total: 30 hours of credit (Not Currently Offered)</td>
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<td>(no changes)</td>
<td>(no changes)</td>
</tr>
<tr>
<td></td>
<td>608.691</td>
<td>606.123 or 606.123</td>
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<td>008.2XX or 008.2XY</td>
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<td>(no changes)</td>
<td>(no changes)</td>
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<td>008.1XX or 008.2XY</td>
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<td>(no changes)</td>
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<tr>
<td></td>
<td>008.1XX or 008.2XY</td>
<td>(no changes)</td>
<td>(no changes)</td>
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</tr>
<tr>
<td><strong>Minor</strong></td>
<td>008.1XX</td>
<td>008.2XX</td>
<td>(no changes)</td>
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<tr>
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<td>008.2XX or 008.2XX or 008.2XX or 608.120 or 608.120</td>
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<tr>
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<td>608.691</td>
<td>608.123 or 608.123</td>
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</tr>
<tr>
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<td>008.2XX or 008.2XY</td>
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<td>(no changes)</td>
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HONOURS 008.2XX or (no changes) (no changes) (no changes)
SINGLE 008.2XY¹
(Not Currently Offered) 666.120 or 666.123²

HONOURS 008.2XX or (no changes) (no changes) (no changes)
DOUBLE 008.2XY²
(Not Currently Offered) 666.120 or 666.123²
SPECIAL COURSES (no changes)

¹Students with sufficient ability in German, but without Grade 12 standing, may be granted written permission by the department head to enter 008.2XX (the former 008.120) or 008.2XY
(the former 008.123), 666.120 or 666.123.
²(no changes)

Advanced Major Program
(The Advanced Major Program is not currently offered).

General Major Program
For entry to the Major, the prerequisite is a grade of "C" or better in one of 008.1XX (the former 008.090), 008.1XY (the former 008.091), 008.2XX (the former 008.120), or 008.2XY (the former 008.123), 666.990, 666.991, 666.120 or 666.123; .... (no further changes to this section)

Minor Program
For entry to the Minor, the prerequisite is a grade of "C" or better in one of 008.1XX (the former 008.090), 008.1XY (the former 008.091), 008.2XX (the former 008.120), or 008.2XY (the former 008.123), 666.990, 666.991, 666.120 or 666.123; (no further changes)

Indicates material to be added
Indicates material to be deleted
**Department of History**

Courses to be deleted:

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<th>Course Title</th>
<th>Credit</th>
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<tr>
<td>011.292W</td>
<td>The History of France Since 1789 (E)</td>
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<tr>
<td>011.324</td>
<td>Protestantism and the Development of the</td>
<td>-3</td>
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<tr>
<td></td>
<td>Canadian Community, 1749-1970 (C,S)</td>
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</tr>
<tr>
<td>011.334</td>
<td>History of Europe, 1769 to 1870 (E)</td>
<td>-3</td>
</tr>
<tr>
<td>011.341</td>
<td>The British Empire and Commonwealth Since 1815 (G)</td>
<td>-3</td>
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<tr>
<td>011.344</td>
<td>Histoire de l'empire et du commonwealth depuis 1815</td>
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</tr>
<tr>
<td>011.380</td>
<td>Eastern Europe Since the French Revolution (E)</td>
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<tr>
<td>011.384</td>
<td>Peace and War in the Modern World (M,S)</td>
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</tr>
<tr>
<td>011.421</td>
<td>France in the Age of the Enlightenment and the</td>
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<tr>
<td></td>
<td>French Revolution (E)</td>
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<tr>
<td>011.449</td>
<td>The New Canada, 1867-96 (C)</td>
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Courses to be modified:

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<tr>
<td>011.126W</td>
<td>New Directions in History: Inquiries into the Cultural Basis</td>
<td>-42</td>
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<td>Of the Modern World (M) (S)</td>
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<tr>
<td></td>
<td>The history of cultural change focusing on such topics as leisure and</td>
<td></td>
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<tr>
<td></td>
<td>popular culture, sexuality and history, and the social consequences of</td>
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<tr>
<td></td>
<td>creativity and genius. The specific content will vary from year to year.</td>
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<tr>
<td>011.127W</td>
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<td>-42</td>
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<td>Of the Modern World (M) (S)</td>
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<td></td>
<td>The history of the social and cultural impact of factors such as changes</td>
<td></td>
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<tr>
<td></td>
<td>in technology and war and revolution. The specific content will vary from</td>
<td></td>
</tr>
<tr>
<td></td>
<td>year to year.</td>
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**NET CHANGE IN CREDIT HOURS:**

**-42**

**Department of Icelandic**

Courses to be deleted:

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<td>012.093</td>
<td>Modern Icelandic I</td>
<td>-6</td>
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<tr>
<td>012.123</td>
<td>Modern Icelandic II</td>
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Courses to be introduced:

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<th>Credit</th>
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<tbody>
<tr>
<td>012.1XX</td>
<td>Modern Icelandic I</td>
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<tr>
<td>012.2XX</td>
<td>Modern Icelandic II</td>
<td>+8</td>
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<td></td>
<td>Modern Icelandic usage through practical exercises and free composition. Study of fictional and non-fictional texts. Students may not hold credit for both 012.2XX and any of the former 012.120, 012.121 or 012.123. Pre-requisite: prior standing in 012.1XX, the former 012.090, the former 012.093 or a grade of 'C' or better in 012.1XX, the former 012.090, or the former 012.093.</td>
<td></td>
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**NET CHANGE IN CREDIT HOURS:**

**0**

Page -53-
### 8.15 ICELANDIC (012)

**Acting Head: D. Arnason**

<table>
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<tr>
<th>PROGRAM</th>
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<th>YEAR IV</th>
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<tbody>
<tr>
<td>MAJOR</td>
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<tr>
<td></td>
<td>012.122 or</td>
<td>(no changes)</td>
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<td></td>
</tr>
<tr>
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<td>012.2XX</td>
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<table>
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<tbody>
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<td>012.2XX</td>
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<td>SINGLE</td>
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<tr>
<td>OR DOUBLE²</td>
<td>(Not Currently Offered)</td>
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¹"Prior standing" in 012.093 012.1XX will be determined by means of a written test administered by the Department at time of registration.

²(no changes)

### 8.15.1 Program Information

**Major Program**

For entry to the Major, the prerequisite is a grade of "C" or better in either 012.093 012.1XX or 012.123 012.2XX. (no further changes)

**Minor**

For entry to the Minor, the prerequisite is a grade of "C" or better in either 012.093 012.1XX or 012.123 012.2XX.

(no further changes)
# DELETIONS

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<tr>
<td>099.092</td>
<td>Introduction to Japanese</td>
<td>(6)</td>
</tr>
<tr>
<td>099.093</td>
<td>Basic Sanskrit</td>
<td>(6)</td>
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<tr>
<td>099.094</td>
<td>Basic Hindi-Urdu</td>
<td>(6)</td>
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<td>099.101</td>
<td>Intermediate Chinese (Mandarin)</td>
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<td>099.102</td>
<td>Intermediate Japanese</td>
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<td>099.103</td>
<td>Intermediate Sanskrit</td>
<td>(6)</td>
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<td>099.104</td>
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<td>099.141W</td>
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<td>Asian Civilizations to 1500 (B)</td>
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<td>099.143W</td>
<td>Asian Civilization from 1500 (B)</td>
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<td>099.201</td>
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<tr>
<td>099.207W</td>
<td>South Asian Civilization</td>
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<td>099.214</td>
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<td>099.235</td>
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<td>099.236</td>
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<td>099.266</td>
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<td>099.345 The Animated Film</td>
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Women's Studies

099.153  Introduction to Women's Studies in the Humanities (3)
099.154  Introduction to Women's Studies in the Social Sciences (3)
099.250  Race, Class and Sexuality (3)
099.251  Women and Education (3)
099.252  Introduction to Feminist Theory (3)
099.253  Writing Women's Lives (3)
099.254  Special Topics in Women's Studies (3)
099.256  Women, Science and Technology (3)
099.350  Selected Topics in Women's Studies (3)
099.353  Readings in Women's Studies (6)
099.354  Readings in Women's Studies (3)
099.355  Feminist Community Organizing: Theories and Practices (3)
099.356  Feminist Perspectives on Violence Against Women (3)
099.357  Feminist Cultural Studies (3)
099.358  Feminist Approaches to Research (6)
099.359  Thinking Through the Body (3)
099.360  Advanced Feminist Theory (3)
8.13 Latin American Studies (Minor) (099L)

Program Coordinator: J.L. Chodkiewicz

The cross-disciplinary nature of the Latin American Studies Minor permits a student to gain a deeper understanding of the subject area and to take an optimum number of courses in Latin American affairs without being restricted to one discipline.

The Faculty of Arts offers a new and exciting option: a "Term in Mexico," from January to April. Students spend three and a half months in Morelia (Mexico) taking the equivalent of five half courses (15 credit hours) from the University of Manitoba while attending the Universidad Latina de America in Morelia, Mexico. The program includes homestay with Mexican families, a week of travel in Mexico and several day trips to picturesque villages and sites of anthropological or historical interest in the state of Michoacan (Capital: Morelia). For information and registration, consult the Coordinator of the Latin American Studies Program, Dr. J.L. Chodkiewicz, 443 Fletcher Argue Building, phone 474-6300.

A Minor in Latin American Studies consists of at least three full courses, or equivalent, from a minimum of two different departments chosen from the following list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>076.2AA**</td>
<td>Prehispanic Cultures of Mexico</td>
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<td>076.2BB**</td>
<td>Anthropological Perspectives on Contemporary Mexico</td>
<td>3</td>
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<td>076.366</td>
<td>Latin American Culture History</td>
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<td>076.368</td>
<td>Anthropological Perspectives on Current Issues in Latin America</td>
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<td>076.369</td>
<td>Peoples and Cultures of Contemporary Latin America</td>
<td>6</td>
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<tr>
<td>Economics</td>
<td>Development Economics</td>
<td>6</td>
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<td>018.339</td>
<td>Latin America</td>
<td>6</td>
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<td>Geography</td>
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<td>053.235</td>
<td>Colonial Latin America</td>
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<td>053.215</td>
<td>Independent Latin America</td>
<td>3</td>
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<tr>
<td>011.302</td>
<td>South America Since 1945</td>
<td>3</td>
</tr>
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<td>011.304</td>
<td>Mexico, Central America, and Cuba Since 1945</td>
<td>3</td>
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<td>011.487</td>
<td>Contemporary Latin America</td>
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<tr>
<td>Spanish</td>
<td>Spanish American Culture and Civilization</td>
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<tr>
<td>044.220</td>
<td>Spanish-American Literature I</td>
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044.254    Spanish-American Literature II
044.323    Spanish-American Fiction Since 1950
044.325    Realism in Spanish-American Fiction
044.326    Twentieth-Century Theatre and Poetry in Spanish America
044.369    Nineteenth-Century Theatre and Poetry in Spanish America
044.370*   The Novel of the Land and the Realistic Short Story in Spanish America
044.373*   The Spanish-American Essay and Twentieth-Century Poetry and Drama
044.374*   The New Spanish-American Novel and the Contemporary Short Story

*No longer offered
**Offered only in second term as part of the "Term in Mexico" option.

Knowledge of the Spanish language is not required since the literature on Latin America in English is extensive and adequate. However, the Latin American literature courses offered by the Department of French, Spanish and Italian require a reading knowledge of Spanish.

For entry to the Minor in Latin American Studies, the prerequisite is a grade of "C" or better in six hours of credit from the approved list.

Courses for the Minor, other than those listed above, may be permitted by written consent of the Program Coordinator.

For course descriptions, see departmental listings.

Further information may be obtained from the Program Coordinator, Professor J.L. Chodikiewicz, Department of Anthropology.
Department of Linguistics

Courses to be introduced:

126.1XX Language and Gender
In exploring the relationship between language and gender, this course addresses such questions as: how are gender differences manifested and perpetuated through language use?; is there such a thing as "women's language"?; how do gender differences influence communication between women and men?; how does gender interact with (for example) race, class and sexuality with respect to language use? In addition, we consider issues of language structure, including sexism in English and the relative success of gender-based language reform efforts.

126.1XY Rules of English Grammar
What are the criteria that are used to distinguish "good" from "bad" grammar? What are the rules we need to know in order to speak and write "properly"? In focussing on basic concepts in traditional grammar, this course reviews parts of speech, the English tense system, sentence types (active vs. passive), question formation and types of embedded clauses. It examines the rules of traditional grammar and explores the linguistic structures that lie behind the rules. This course is not intended for students learning English; it presupposes native or near-native competence in English.

NET CHANGE IN CREDIT HOURS: +6

Department of Near Eastern & Judaic Studies

Courses to be deleted:

055.091 Introductory Hebrew -6
055.092 Biblical Hebrew (A) -6

Course to be introduced:

056.1XX Biblical Hebrew (A)
An introductory course with emphasis on basic grammar and syntax. Students will learn to read simple biblical narratives. Students may not hold credit for both 056.1XX or 020.1XX or the former 055.092 and 020.092.

NET CHANGE IN CREDIT HOURS: -6

Department of Psychology

Courses to be modified:

017.241 Social Psychology I (3)
This course provides a basic introduction to the ways in which we affect and are affected by the behaviour of others. Topics typically include: methods used by social psychologists, attitudes and attitude change, social beliefs and judgements, conformity, and persuasion. Pre-requisite: 017.120 or both 017.121 and 017.122 or written consent of department head.

017.241F Psychologie sociale I (3)
Ce cours présente une introduction de base aux façons par lesquelles nous affectons et sommes affectés par les comportements des autres. Les thèmes abordés incluent: les méthodes utilisées
par les psychologues sociaux, les attitudes et le changement d'attitude, les croyances sociales et le jugement, la conformité et la persuasion. Préalable : 017.120 ou tous les deux 017.121 et 017.122 ou l'autorisation écrite du professeur.

017.242 Social Psychology II (3)
The course provides an introduction to basic social psychology topics not covered in 017.241, such as social norms and roles, group dynamics, prejudice, aggression, altruism, attraction and close relationships, and intergroup conflict. Pre-requisite: 017.120 or both 017.121 and 017.122 or written consent of department head.

NET CHANGE IN CREDIT HOURS: 0

Department of Religion

Course to be deleted:

020.092 Biblical Hebrew (A) -6

Course to be introduced:

020.1XX Biblical Hebrew (A) +3
An introductory course with emphasis on basic grammar and syntax. Students will learn to read simple biblical narratives. (Not acceptable for credit towards a Major or Minor in Religion.) Students may not hold credit for both 020.1XX or 035.1XX or the former 020.092 and 035.092.

NET CHANGE IN CREDIT HOURS: 0

Department of Sociology

Courses to be deleted:

077.250 Origins of Sociological Thought -3
077.250 Origines de la pensée sociologique -3
077.254 Social Inequality -3
077.254 Inégalités sociales -3
077.367 Sociological Theory I -3
077.367 Théorie sociologique I -3
077.368 Sociological Theory II -3
077.368 Théorie sociologique II -3
077.375 Comparative Social Systems -3
077.449 Theories of Social Psychology -3
077.450 Theories of Social Change -3

Courses to be introduced:

077.2XX Theoretical Foundations +3
A review of classical sociological theory. Focus will be on the central figures and schools of thought in sociology. Students may not hold credit for both 077.2XX and the former 077.367.

077.2XX Théories sociologiques classiques +3
Un aperçu de la théorie sociologique classique. Ce cours mettra l'accent sur les principaux
penseurs et les principales écoles de pensée en sociologie. Les étudiants(es) ne peuvent se faire créditer à la fois le 077.2XX et l'ancien 077.367.

077.2XY  **Critical Issues in Sociology**  
A form-specific, content variable course especially designed for Honours students. The intent of this course is to develop critical thinking and improve students' oral, writing and research skills. It is also designed to facilitate the creation of a cohesive cohort of Honours students through the use of group work and assignments. Pre-requisite: written consent of department head.

077.3XX  **Origins of Sociological Thought**  
A systematic introduction to sociological thought from ancient philosophy to the middle of the 19th century. Emphasis is placed on social thought that is to become the foundations of sociological theory. Students may not hold credit for both 077.3XX and the former 077.250.

077.3XX  **Origines de la pensée sociologique**  
Une introduction systématique à la pensée sociologique, de ses origines philosophiques jusqu'au milieu du 19ème siècle. Ce cours insistera sur la pensée sociale qui deviendra la base de la théorie sociologique. Les étudiants(es) ne peuvent se faire créditer à la fois le 077.3XX et l'ancien 077.250.

077.3XY  **Feminist Sociological Theory**  
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 praxis.

077.3XZ  **Theories in Social Psychology**  
Review of the predominant theoretical perspectives currently utilized in social psychology in relation to contemporary sociological concerns. Students may not hold credit for both 077.3XZ and the former 077.449.

077.3YY  **Contemporary Sociological Theory**  
A systematic comparison of contemporary sociological theories. Emphasis will be placed on the development of competing schools in modern sociology, highlighting the contributions of major theorists. Students may not hold credit for both 077.3YY and the former 077.368.

077.3YY  **Théories sociologiques contemporaines**  
Une comparaison systématique des théories sociologiques contemporaines. Ce cours mettra l'accent sur l'évolution compétitive des diverses écoles en sociologie et surtout sur l'apport des théoriciens les plus importants. Les étudiants(es) ne peuvent se faire créditer à la fois le 077.3YY et l'ancien 077.368.

077.3ZX  **Social Inequality**  
An examination of the social inequality in contemporary capitalist society from a comparative perspective. The course will critically examine theoretical explanations for various dimensions of social inequality, such as class, gender and race/ethnicity. Poverty, the distribution of wealth, elites, unemployment and the nature of work and the workplace in the context of globalization are among the indicators of social inequality which will be focused on. Students may not hold credit for both 077.3ZX and either of the former 077.254 or 077.244.

077.3ZX  **Inégalités sociales**  
Ce cours discute des inégalités sociales dans la société capitaliste actuelle. Il examine, de manière critique, les explications proposées au sujet des diverses dimensions de l'inégalité sociale, telles...
que: la classe sociale d'appartenance, les rôles sexuels l'appartenance ethnique. On y aborde, entre autres, les sujets suivants: la pauvreté, la répartition sociale de la richesse, le chômage, l'évolution des postes et des contextes de travail à l'ère de la globalisation. Les étudiants (es) ne peuvent se faire créditer à la fois le 077.282X et un des anciens 077.254 ou 077.244.

077.4XY Advanced Sociological Theory

A critical examination and analysis of selected sociological theories. Course content may vary from year to year depending upon the instructor's interest. Pre-requisite: written consent of department head.

Courses to be modified:

077.122 Introduction à la macro sociologie (3)

Introduction systématique à la perspective sociologique: points de vue théorique, méthodes et domaines de recherche. On initiera l'étudiant(e) à la culture, la stratification sociale, les mouvements sociaux, la population, les institutions politiques, les différents systèmes de la société. Préalable: le 077.121. L'étudiant(e) ne peut se faire créditer à la fois le 077.122 et 077.120.

077.247 Courtship and Marriage (3)

Male selection, marital interaction, adjustment, changing roles of wives and husbands, with special emphasis on division of labour, power relations, and sexual adjustment in contemporary Western marriage and across cultures. Experimental marriage forms will be examined.

077.247 Les fréquentations et le mariage (3)

Discussion comparative et interculturelle portant sur le choix du conjoint, les rôles au sein du ménage, les modèles d'interaction conjugal. Le cours insistera particulièrement sur les rapports conjuguels observables dans les sociétés développées contemporaines, sous l'angle du partage des tâches ménagères et des rapports de pouvoir au sein du couple.

077.264 Families in Societal Crisis (3)

An analysis of the impact of major social and economic pressure and change on families. The course will focus on institutions, legislation and policies that respond to families and social change. Pre-requisite: 077.246 or written consent of department head.

077.375 Sociology and Education (3)

A critical examination of schools at all levels and the challenges they face. Issues such as curriculum, classroom interaction, gender, race, class and equality of educational opportunities will be explored. The course should be useful to students interested in careers in education and counselling.

077.373 Société et éducation (3)

Un examen critique des enjeux de l'éducation et leur impact sur l'évolution de la société. On aborde des questions telles que: le curriculum, l'interaction au sein de la classe, compte tenu des caractéristiques socio-économiques des élèves (gêne, ethnie, niveau de revenu et profession des parents, etc.). Le cours intéressera particulièrement les personnes qui se préparent à faire carrière en éducation.

077.445 Honours Seminar (6)

An intensive discussion of selected sociological problems, culminating in a major Honours thesis. Pre-requisite: written consent of department head.

NET CHANGE IN CREDIT HOURS: +3
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<thead>
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<th>Year</th>
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<td>Year III</td>
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<td>Year IV</td>
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<td>60-65</td>
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</table>

Note: The above table represents a program of study, with each year requiring a specific combination of sociology courses to fulfill the degree requirements.
Indicates material to be deleted

(no further changes)

Program is not currently available

For any to the Honours Program, see Section 4. Basic Faculty Regulations for the Three Programs Leading to a B.A. The Honours Program.

(no changes)

Minor Program

(no changes)

Major Program

8.2.1 Program Information

Students enrolled in the Fourth Year of the Honours Program are permitted to substitute the Graduate course 077.443 for 077.448.

The Honours Program is not currently available.

Total: 30 hours of credit
Total: 24 hours of credit

Additional options

hours of credit in

Level in Psychology: 12
credit at the 200 or 300
level plus 6 hours of
Psychology at the 400
level.

hours of credit in

077.3XX, 077.3XX, 077.3XX,
077.4XX, 077.4XX, 077.4XX
plus

hours of credit in

077.4XX, 077.4XX, 077.4XX,
077.4XX, 077.4XX, 077.4XX

6 hours of credit from

077.4XX, 077.4XX, 077.4XX,
077.4XX, 077.4XX, 077.4XX

HONOURS
A minor in Français for the Baccalauréat ès arts général program requires:
- 144.111 (Grammaire et laboratoire) (3)
- 144.109 (Rédaction universitaire) (3)
- 12 credits of which three must be at the 300 or 400 level.

A major in Français for the Baccalauréat ès arts général program requires:
- 144.111 (Grammaire et laboratoire) (3)
- 144.109 (Rédaction universitaire) (3)
- 24 credits of which 9 credits must be at the 300 or 400 level.

The CUSB would like to make the program more flexible by adding three credit hour courses to the list of prerequisites. A minor program in Français would consist of:
- 144.109 (Rédaction universitaire) (3)
- three credit hours taken from 144.111 (Grammaire et laboratoire), 144.107 (Lectures dirigées) (3) and 144.102 (L'art de parler) (3).
- 12 credits of which three must be at the 300 or 400 level.

A major program in Français would consist of:
- 144.109 (Rédaction universitaire) (3)
- three credit hours taken from 144.111 (Grammaire et laboratoire), 144.107 (Lectures dirigées) (3) and 144.102 (L'art de parler) (3).
- 24 credits of which 9 credits must be at the 300 or 400 level.

The approval of this modification to the minor and major programs carries slight modifications to the description of some 200 level courses which specified the 144.111 and 144.109 as prerequisites. Therefore, CPAC is asked to approve the change of prerequisites for the following courses. The prerequisites should now read:

the 144.109 et un cours choisi parmi les suivants : 144.102, 144.107 ou 144.111.

144.243 Introduction au théâtre I (3)
144.254 Introduction au théâtre II (3)
144.263 Poésie et chanson dans la littérature française (3)
Department of Traduction (St. Boniface College)

Course to be introduced:

122.4XX  Initiation à la localisation  +3
La localisation est l'adaptation de logiciels pour qu'ils soient utilisables par des publics très variés. Cette adaptation étant aussi linguistique, le rôle du traducteur est essentiel dans l'équipe de localisation, mais très technique. Dans ce cours, les étudiants apprendront donc à utiliser divers outils informatiques indispensables à cette activité. Préalable : I3 122.211 ou l'autorisation du professeur.

NET CHANGE IN CREDIT HOURS:  +3

3. Faculty of Education

Department of Curriculum: Humanities and Social Sciences

Courses to be deleted:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>063.131</td>
<td>Teaching Language Arts</td>
<td>-6</td>
</tr>
<tr>
<td>063.151</td>
<td>Topics in Music Education</td>
<td>-3</td>
</tr>
<tr>
<td>063.159</td>
<td>Topics in Art Education</td>
<td>-3</td>
</tr>
<tr>
<td>063.160</td>
<td>Topics in Drama Education</td>
<td>-3</td>
</tr>
<tr>
<td>063.161</td>
<td>Topics in Social Studies Education</td>
<td>-3</td>
</tr>
</tbody>
</table>

Courses to be introduced:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>132.1XX</td>
<td>Teaching the Arts in Senior Years</td>
<td>+3</td>
</tr>
<tr>
<td>132.1XD</td>
<td>Teaching Social Studies in Senior Years</td>
<td>+3</td>
</tr>
<tr>
<td>132.1XB</td>
<td>Art Across the Curriculum</td>
<td>+3</td>
</tr>
<tr>
<td>132.1XC</td>
<td>Drama Across the Curriculum</td>
<td>+3</td>
</tr>
<tr>
<td>132.1XF</td>
<td>Teaching English Language Arts in Senior Years</td>
<td>+3</td>
</tr>
</tbody>
</table>

For specialists in art, drama and music, and those without a specialist background, the course will address common elements and issues in arts (art, music, drama etc.). Education at the Senior Years level.

A study of theoretical and practical issues relating to the curriculum, resources, instructional approaches and evaluation processes relevant to the teaching of Social Studies in the Senior Years. Includes the exploration of current issues and trends in Canadian Social Studies. A required course for students enrolled in Teaching History and Teaching Geography in the Senior Years.

This course will emphasize the importance of visual learning and its potential for teaching in the various curriculum areas at all levels. Opportunities for studio work, discussion and planning will be provided.

For all students, specialist and non-specialist, who wish to develop a greater understanding and practice of drama in the classroom across the curriculum.

The course will introduce students to the history, theories, principles, and practices of teaching English language arts at the Senior level.
# Proposed Renumbering of Courses for the Department of Curriculum, Teaching and Learning

## For the 2000-2001 Regular Session

<table>
<thead>
<tr>
<th>EXISTING #</th>
<th>PROPOSED #</th>
<th>COURSE TITLE &amp; CREDIT HOURS</th>
<th>COURSE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>063.105</td>
<td>132.100</td>
<td>Early Years Philosophy and Practice I (1)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). Students may not hold credit for both 132.100 and the former 063.105.</td>
</tr>
<tr>
<td>063.106</td>
<td>132.101</td>
<td>Early Years Curriculum and Instruction in Language and Literacy I (3)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). Students may not hold credit for both 132.101 and the former 063.106.</td>
</tr>
<tr>
<td>063.107</td>
<td>132.102</td>
<td>Early Years Curriculum and Instruction in Music and Movement I (1)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). Students may not hold credit for both 132.102 and the former 063.107.</td>
</tr>
<tr>
<td>063.108</td>
<td>132.103</td>
<td>Early Years Curriculum and Instruction in Art and Drama I (2)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). Students may not hold credit for both 132.103 and the former 063.108.</td>
</tr>
<tr>
<td>063.109</td>
<td>132.104</td>
<td>Early Years Curriculum and Instruction in Social Studies I (1)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). Students may not hold credit for both 132.104 and the former 063.109.</td>
</tr>
<tr>
<td>063.120</td>
<td>132.110</td>
<td>Introduction to Teaching Language Arts in the Middle Years (3)</td>
<td>An overview of curriculum, instructional approaches, and techniques relevant to language literacy education at the middle years level, with emphasis on oracy and reading instruction. Students may not hold credit for both 132.110 and the former 063.120.</td>
</tr>
<tr>
<td>063.121</td>
<td>132.111</td>
<td>Introduction to Teaching Social Studies in the Middle Years (1)</td>
<td>A study of the fundamentals of Social Studies Education in the Middle Years, with particular emphasis on the goals, curriculum approaches, content, and initial planning issues. Students may not hold credit for both 132.111 and the former 063.121.</td>
</tr>
<tr>
<td>063.122</td>
<td>132.112</td>
<td>Teaching Drama in the Middle Years (1)</td>
<td>An overview of the teaching strategies appropriate to teaching drama in the Middle Years. Students may not hold credit for both 132.112 and the former 063.122.</td>
</tr>
<tr>
<td>063.130</td>
<td>132.220</td>
<td>Teaching Art in Senior Years (3)</td>
<td>A study of curriculum and instruction approaches relevant to teaching the visual arts at the senior years level. Prerequisite: 132.120.</td>
</tr>
<tr>
<td>063.132</td>
<td>132.222</td>
<td>Teaching Geography in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of geography at the senior years level. Prerequisite: 132.123.</td>
</tr>
<tr>
<td>EXISTING #</td>
<td>PROPOSED #</td>
<td>COURSE TITLE &amp; CREDIT HOURS</td>
<td>COURSE DESCRIPTION</td>
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<tr>
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</tr>
<tr>
<td>063.158</td>
<td>132.167</td>
<td>English for the NNS (Non-Native Speaking) Teachers of ESL (3)</td>
<td>English language development for non-native speaking teachers of English as a second language. Focus is on teacher classroom and professional English.</td>
</tr>
<tr>
<td>063.162</td>
<td>132.168</td>
<td>Media Literacy (3)</td>
<td>This course will examine the role of the media in society and assist educators in all disciplines and levels to help students develop an informed and critical understanding of the mass media; including television, film, popular music, news and advertising, etc. Students may not hold credit for both 132.168 and the former 063.162.</td>
</tr>
<tr>
<td>063.163</td>
<td>132.169</td>
<td>Recent Developments in Curriculum: Humanities and Social Sciences (3)</td>
<td>The study of selected topics in curriculum and instruction in the humanities and social sciences.</td>
</tr>
<tr>
<td>063.164</td>
<td>132.170</td>
<td>Teaching Canadian Studies (3)</td>
<td>An introduction to Canadian Studies as a school subject, K-S4, touching on recent developments, and concentrating on questions of program development, teaching strategies, and resources. Students may not hold credit for 132.170 and the former 063.214.</td>
</tr>
<tr>
<td>063.190</td>
<td>132.196</td>
<td>Early Years School Experience I (6)</td>
<td>Practical teaching experience in Early Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Early Years level. Students may not hold credit for both 132.196 and the former 063.190.</td>
</tr>
<tr>
<td>063.191</td>
<td>132.197</td>
<td>Middle Years School Experience I (3)</td>
<td>Practical teaching experience in Middle Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Middle Years level. Students may not hold credit for both 132.197 and the former 063.191.</td>
</tr>
<tr>
<td>063.192</td>
<td>132.198</td>
<td>Senior Years School Experience I (6)</td>
<td>Practical teaching experience in the schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the senior years level.</td>
</tr>
<tr>
<td>063.221</td>
<td>132.201</td>
<td>Early Years Curriculum and Instruction in Language and Literacy (3)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.222</td>
<td>132.202</td>
<td>Early Years Curriculum and Instruction in Music and Movement II (2)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.223</td>
<td>132.203</td>
<td>Early Years Curriculum and Instruction in Art and Drama II (1)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.224</td>
<td>132.204</td>
<td>Early Years Curriculum and Instruction in Social Studies II (2)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>EXISTING</td>
<td>PROPOSED</td>
<td>COURSE TITLE &amp; CREDIT HOURS</td>
<td>COURSE DESCRIPTION</td>
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</tr>
<tr>
<td>081.105</td>
<td>132.105</td>
<td>Early Years Curriculum and Instruction in Mathematics I (2)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in Early Years education (Kindergarten to Grade 4). <em>Students may not hold credit for both 132.105 and the former 081.105.</em></td>
</tr>
<tr>
<td>081.106</td>
<td>132.106</td>
<td>Early Years Curriculum and Instruction in Science and Health I (2)</td>
<td>An introductory, interdisciplinary study of curriculum and instruction in Early Years education (Kindergarten to Grade 4). <em>Students may not hold credit for both 132.106 and the former 081.106.</em></td>
</tr>
<tr>
<td>081.120</td>
<td>132.113</td>
<td>Introduction to Teaching Science in the Middle Years (1)</td>
<td>This course will explore Middle Years science curricular content and issues. It will also provide teaching and learning models and tools for structuring science knowledge and drawing relationships among theory, evidence, and values in science. <em>Students may not hold credit for both 132.113 and the former 081.120.</em></td>
</tr>
<tr>
<td>081.121</td>
<td>132.114</td>
<td>Introduction to Teaching Mathematics in the Middle Years (3)</td>
<td>An overview of Middle Years mathematics curricula. <em>Students may not hold credit for both 132.114 and the former 081.121.</em></td>
</tr>
<tr>
<td>081.130</td>
<td>132.226</td>
<td>Teaching Biology in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of biology at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>081.131</td>
<td>132.227</td>
<td>Teaching Chemistry in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of chemistry at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>081.132</td>
<td>132.228</td>
<td>Teaching General Science in Senior Years (3)</td>
<td>The study of curriculum and instructional approaches relevant to the teaching of General Science at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>081.133</td>
<td>132.124</td>
<td>Teaching Human Ecology in Senior Years I (3)</td>
<td>The study of curriculum and instructional approaches relevant to the teaching of Human Ecology at the senior years level.</td>
</tr>
<tr>
<td>081.134</td>
<td>132.229</td>
<td>Teaching Human Ecology in Senior Years II (3)</td>
<td>A continuation of the study of curriculum and instructional approaches relevant to the teaching of Human Ecology at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>081.135</td>
<td>132.125</td>
<td>Teaching Mathematics in Senior Years I (3)</td>
<td>A study of curriculum and instructional approaches relevant to teaching Mathematics at the senior years level.</td>
</tr>
<tr>
<td>081.136</td>
<td>132.230</td>
<td>Teaching Mathematics in Senior Years II (3)</td>
<td>A continuation of the study of curriculum and instructional approaches relevant to teaching Mathematics at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>081.137</td>
<td>132.126</td>
<td>Teaching Physical Education/Health Education in Senior Years I (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of physical education and health education at the senior years level.</td>
</tr>
<tr>
<td>081.138</td>
<td>132.231</td>
<td>Teaching Physical Education/Health Education in Senior Years II (3)</td>
<td>A continuation of the study of curriculum and instructional approaches relevant to the teaching of physical education and health education at the senior years level. <em>Prerequisite: 132.127.</em></td>
</tr>
<tr>
<td>EXISTING #</td>
<td>PROPOSED #</td>
<td>COURSE TITLE &amp; CREDIT HOURS</td>
<td>COURSE DESCRIPTION</td>
</tr>
<tr>
<td>------------</td>
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<td>--------------------</td>
</tr>
<tr>
<td>081.156</td>
<td>132.181</td>
<td>Computer-Based Multimedia in Education (3)</td>
<td>An examination of computers in education focusing on the utilization and creation of educational computer-based multimedia. <em>Students may not hold credit for both 132.181 and the former 081.156. Prerequisite: 132.199 or the former 081.182 or 081.218 or 043.306 or written permission of the instructor.</em></td>
</tr>
<tr>
<td>081.182</td>
<td>132.199</td>
<td>Teacher and Technology (3)</td>
<td>An introduction of educational and information technology in the classroom. Focus will be on the utilization of technology, the development of information skills for teachers and critical analyses of the potential of educational technology. <em>Students may not hold credit for 132.199 and the former 081.182 or 081.218 or 081.202.</em></td>
</tr>
<tr>
<td>081.220</td>
<td>132.205</td>
<td>Early Years Curriculum and Instruction in Mathematics II (2)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>081.221</td>
<td>132.206</td>
<td>Early Years Curriculum and Instruction in Science and Health II (2)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>081.230</td>
<td>132.213</td>
<td>Teaching Science in the Middle Years (3)</td>
<td>This course will examine learning in middle years science from multi-perspectives. Contemporary teaching and learning models will be assessed. Unit and lesson plans will be developed using multi-voices in science.</td>
</tr>
<tr>
<td>081.231</td>
<td>132.214</td>
<td>Teaching Mathematics in the Middle Years (3)</td>
<td>A study of instructional approaches needed to teach mathematics at the Middle Years level.</td>
</tr>
<tr>
<td>081.232</td>
<td>132.215</td>
<td>Teaching Physical Education in the Middle Years (2)</td>
<td>This course introduces students to the rationale for, and methods of, teaching of health and physical education in the Middle Years grades.</td>
</tr>
<tr>
<td>081.240</td>
<td>132.240</td>
<td>Teaching in the Middle Years (2)</td>
<td>Examines the assumptions underlying the goals of Middle Years education. Topics include unit and lesson planning, special topics in adolescent development, classroom management, student evaluation, and integrating curriculum.</td>
</tr>
</tbody>
</table>
4. Faculty of Engineering

Management Minor

The following statement is to be published in the General Calendar:

"MANAGEMENT MINOR
The minor in Management offered by the Faculty of Management is available to Engineering students. The minor consists of any 18 credit hours of Management courses; students must meet all pre-requisite requirements. Depending on the approval of your Engineering Department, courses used for the minor may also be used to fulfill course requirements in Engineering. Admission requirements for the minor are based on all courses transferred to engineering, or completed while in engineering; the requirements are a minimum of 30 credit hours with a minimum Cumulative Grade Point Average (CGPA) of 3.00. The Faculty of Management has approved 10 new students per year for entry to the minor; admission is competitive."

It is recommended that the designation "Management Minor" be included on transcripts for students who have completed the minor.

Department of Electrical & Computer Engineering

Courses to be modified:

130.118 Introduction to Electric Circuits (3-1.5:0-0) or (0-0:3-1.5) (4)
Resistors; DC Circuits; Circuit Theorems and analysis methods; Energy storage elements; RC and RL circuit transient response; Alternating current steady state circuit analysis; Power in AC Circuits.
Co-requisite: 136.171. Not to be held with 016.261 or the former 024.210.

130.201 Technical Communications (1-3:0-0) 3 or (0-0:1-3) 3
Students work collaboratively in teams and develop strong project management skills. Focus is on the connection between engineering and communication design; the importance of audience analysis; a clear definition of the technical issues and the criteria by which to measure a design or solution; well-designed graphic aids which support the text; and clear writing and speaking. Pre-requisite: 004.13 1 or 004.132.

NET CHANGE IN CREDIT HOURS:
0

Department of Mechanical & Industrial Engineering

Mechanical Engineering Industry Internship Programme (MEIIP)

It is recommended that the Mechanical Engineering Industry Internship Programme (MEIIP) be approved.

Course to be introduced:

025.4XX Mechanical Engineering Industry Internship (IIP) 0
Supervised work experience, normally of 12-16 months duration, concluded by a work report. Pass-Fail grade only.

NET CHANGE IN CREDIT HOURS:
0
7. School of Medical Rehabilitation

Occupational Therapy Programme

Course to be deleted:

068.146 Basic Clinical Sciences -6

Courses to be introduced:

068.1AA Basic Clinical Sciences +3
A lecture and tutorial course covering basic physiology related to membrane, muscle, pain and the cardiovascular, respiratory, endocrine, and immune systems. 44 hours.

068.4XY Re-Entry Fieldwork +8
Self-directed period of fieldwork preparation followed by a 7-week fieldwork education experience under the supervision of a registered occupational therapist. Course evaluated on a pass/fail basis. Pre-requisites: an earned degree in occupational therapy, permission of Head of Division of Occupational Therapy.

NET CHANGE IN CREDIT HOURS: +5

8. School of Music

Course to be deleted:

033.093 Rudiments of Music -3

Course to be introduced:

033.1XX Rudiments of Music +3
An introduction to fundamental aspects of music such as sound generation, notation, melodic and harmonic construction, with emphasis on an aural approach. (Formerly 033.093).

NET CHANGE IN CREDIT HOURS: 0

9. Faculty of Nursing

Course to be introduced:

049.2XX Pharmacology in Nursing Practice +3
This course introduces nursing students to the basic concepts and principles related to pharmacology (pharmacokinetics, pharmacodynamics, pharmacotherapeutics) and the nurse's role in drug therapy. The major classifications of drugs will be examined along with issues arising from the use of drug therapy in contemporary society. Pre-requisites: 022.132 Anatomy of the Human Body and 022.133 Physiology of the Human Body.

NET CHANGE IN CREDIT HOURS: +3
NET CHANGE IN CREDIT HOURS:

11. Faculty of Physical Education and Recreation Studies

Physical Education Programme

Course to be deleted:
057.132 Foundations of Physical Education -3

Courses to be introduced:
057.1AA Foundations of Physical Education and Exercise Science (3-0:0-0) +3
An introduction to physical education and exercise science as a profession and a discipline, including an overview of sub-disciplines, resources, and careers; a personal physical assessment; and principles for achieving physical fitness. May not be held with the former 057.132.

057.4AA Exercise for Older Adults +1
Practical activity course which focuses on the design and implementation of effective exercise programmes for older adults. Evaluated on a Pass/Fail basis. Pre-requisites: 057.164 Group Fitness Activities, 057.262 Resistance Training, 057.264 Exercise to Music, 057.450 Aging Adult Development, Health and Fitness.

Course to be modified:
057.450 Aging Adult Development, Health and Fitness (3-0:0-0) 3
The study of the aging processes and the effects of exercise and lifestyle factors on the health and fitness of the aging adult. This course is intended for the upper undergraduate student as well as for students taking the Option in Aging. Pre-requisite: 057.261.

NET CHANGE IN CREDIT HOURS: +1

12. Faculty of Science
Introductory Biology Programme

Service courses to be deleted:

071.130 General Science for Elementary Teachers (L) -6
071.130 Sciences pour professeurs à l'élémentaire (L) -6

NET CHANGE IN CREDIT HOURS: -12

Department of Botany

Courses to be modified:

001.402 Forest Botany (3) L
Lectures, laboratories and assignments dealing with the structure, diversity and dynamics of plant communities in forested ecosystems. Particular emphasis will be placed on the Boreal Forest region. Pre-requisites: 001.201 (or the former 001.230) and 001.237 (022.237 or 065.237), or consent of department head.

001.421 Principles of Plant Pathology (3) L
A study of the interactions of casual agents, environment, and host plants in the development of disease. Special attention will be given to diseases of local and regional significance. Laboratory exercises will illustrate the basic techniques of plant pathology. Offered in 1999-2000 and in alternate years thereafter. Not to be held with the former 001.450. Pre-requisites: 001.202 (or the former 001.230) and 001.221 (or the former 001.321) or 001.322, or consent of department head.

NET CHANGE IN CREDIT HOURS: 0
The change is:

1. Footnote 4 changes from “Electives chosen during Years II, III, and IV must include at least 9 credit hours from 013.239, 013.249, 006.235, 006.245, 016.220, 016.225, 016.226, 016.335” to “Electives chosen during Years II, III, and IV must include at least nine credit hours of Science courses other than Chemistry at the 200 level or higher."
Proposed Program:

COMPUTER SCIENCE - MATHEMATICS JOINT PROGRAM (074M)

The Departments of Computer Science and Mathematics offer a Joint Honours program for students wishing in-depth study in both Computer Science and Mathematics.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOINT HONOURS</td>
<td>074.101 and 074.102 (B)</td>
<td>074.206, 074.208*, 074.222.</td>
<td>074.303, 074.317, 074.337, 074.343, 074.430, 074.431 (or 074.442)</td>
<td>Two of 074.329, 074.335, 074.338, One of 074.429, 074.435, 074.438, Plus an additional 3 credit hours of 300 or 400 level Computer Science.</td>
</tr>
<tr>
<td>123 CREDIT HOURS</td>
<td>074.103 (B), 074.169 (B), (or 074.150* and 074.170 (B))</td>
<td>074.223, 074.232LA, 074.234, 074.235</td>
<td>074.303</td>
<td>013.340, 013.345, 013.338, 013.372</td>
</tr>
<tr>
<td></td>
<td>005.100 (C)</td>
<td>or 136.2GA</td>
<td>074.398, 074.400, 013.346, 013.465</td>
<td>Plus 12 credit hours from the following courses, including at least 6 credit hours at the 400 level: 013.347, 013.349, 013.375, 013.376, 013.452, 013.456, 013.465</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>In the above chart, University I and Year II are part of a revised program; please see note 5.</td>
<td>In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.</td>
<td></td>
</tr>
<tr>
<td>A &quot;W&quot; course must be taken in Year I or II</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A "W" course must be taken in Year I or II

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOINT COOPERATIVE OPTION HONOURS</td>
<td>074.101 and 074.102 (B)</td>
<td>074.206, 074.208*, 074.222.</td>
<td>074.303, 074.317, 074.337, 074.343, 074.398*, 074.430, 074.431 (or 074.442), 074.498*</td>
<td>Two of 074.329, 074.335, 074.338, One of 074.429, 074.435, 074.438, Plus an additional 3 credit hours of 300 or 400 level Computer Science.*</td>
</tr>
<tr>
<td>123 CREDIT HOURS</td>
<td>074.103 (B), 074.169 (B), (or 074.150* and 074.170 (B))</td>
<td>074.223, 074.232*, 074.234, 074.235</td>
<td>074.303</td>
<td>013.340, 013.345, 013.338, 013.372</td>
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<tr>
<td></td>
<td>005.100 (C)</td>
<td>or 136.27H, 074.25SR plus one of 136.21A or 136.23A</td>
<td>074.398</td>
<td>013.346, 013.465</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>University I and Year II are part of a revised program; please see note 5.</td>
<td>Plus 12 credit hours from the following courses, including at least 6 credit hours at the 400 level: 013.347, 013.349, 013.375, 013.376, 013.452, 013.456, 013.465</td>
<td></td>
</tr>
<tr>
<td>A &quot;W&quot; course must be taken in Year I or II</td>
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</tbody>
</table>

A "W" course must be taken in Year I or II

The Changes are:

1. 013.234, 013.235 and 013.237 have been replaced by 136.2HF, 136.2LA, 136.2SR and one of 136.2JA or 136.2GA in Year II.

2. The entry grade for 136.130 has been increased to a 'B'.

3. Footnote 5 and the sentences in the chart have been added to explain the transition.

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### Proposed Program:

**GEOLOGICAL SCIENCES (007)**

**Head:** N.M. Halden  
**General Office:** 240 Wallace Building  
**Telephone:** (204) 474-9371

**PROGRAM**  
**UNIVERSITY 1**  
**YEAR II**  
**YEAR III**  
**YEAR IV**  

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
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<tbody>
<tr>
<td><strong>HONOURS</strong></td>
<td>007.123 (B), or 007.124 (B), (or 007.134 (B) or 007.144 (B) and one of: 007.135, 007.136, or 007.137 (B))</td>
<td>007.205, 007.244, 007.250, 007.252, 007.253, 007.256, 007.260, 007.277, 007.331</td>
<td>007.311, 007.313, 007.390, 007.430, 007.449, 007.452, 007.467, 007.487, 007.489</td>
<td>Plus 34 credit hours of Geological Sciences electives from: 007.329, 007.342, 007.349, 007.374, 007.375, 007.381, 007.428, 007.429, 007.431, 007.432, 007.433, 007.449, 007.452, 007.466, 007.481, 007.483, 007.487</td>
</tr>
<tr>
<td><strong>GEOLOGY</strong> (007G)</td>
<td>129 CREDIT HOURS</td>
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<tr>
<td><strong>GEOPHYSICS</strong> (or 007G)</td>
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<td><strong>(007P)</strong></td>
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<tr>
<td><strong>126 CREDIT HOURS</strong></td>
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</tbody>
</table>
| Plus 6 credit hours of electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Geological Sciences electives  
Plus 18 credit hours of Science electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Geological Sciences electives  
Plus 3 credit hours of electives as approved by the Department |

| HONOURS | 007.123 (B), or 007.124 (B), (or 007.134 (B) or 007.144 (B) and one of: 007.135, 007.136, or 007.137 (B)) | 007.206, 007.250, 007.253, 015.237, 016.240, 136.2BA**, 136.2BB** | 007.244, 007.252, 007.374, 007.381, 007.474*, 006.343*, 006.360*, 016.250, 016.260, 016.261 | 007.311, 007.425, 007.432, 007.433, 007.467, 007.481, 073.483, 073.487 |
| **GEOPHYSICS** (or 007G) | | Plus 6 credit hours of electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Geological Sciences electives  
Plus 6 credit hours of Science electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Geological Sciences electives  
Plus 3 credit hours of electives as approved by the Department |
| **(007P)** | | | | |
| **126 CREDIT HOURS** | | | | |
| Plus 6 credit hours from the Faculty of Arts, which should include the "W" course  
Plus 18 credit hours of Geological Sciences electives  
Plus 6 credit hours from the Faculty of Arts, which should include the "W" course  
Plus 18 credit hours of Science electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Geological Sciences electives  
Plus 3 credit hours of electives as approved by the Department |

| FOUR YEAR | 007.123 (C+), or 007.124 (C+), (or 007.134 (C+) or 007.144 (C+) and one of: 007.135, 007.136, or 007.137 (C+)) | 007.244, 007.250, 007.252, 007.253, 007.256, 007.260 | 007.206, 007.277, 007.311, 007.331, 007.390, 007.430 | 007.313, 007.425, 007.432, 007.433, 007.467, 007.481, 073.483, 073.487 |
| **MAJOR IN** | | | | |
| **GEOLOGY** (or 007G) | | Plus 9 credit hours of Geological Sciences electives  
Plus 9 credit hours from: 007.329, 007.342, 007.349, 007.374, 007.375, 007.381, 007.428, 007.429, 007.431, 007.432, 007.433, 007.449, 007.452, 007.466, 007.481, 007.483, 007.487 |
| **(007P)** | | | | |
| **120 CREDIT HOURS** | | | | |
| Plus 6 credit hours from the Faculty of Arts, which may include the "W" course  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 18 credit hours of Science electives  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 9 credit hours from: 007.329, 007.342, 007.349, 007.374, 007.375, 007.381, 007.428, 007.429, 007.431, 007.432, 007.433, 007.449, 007.452, 007.466, 007.481, 007.483, 007.487 |

| FOUR YEAR | 007.123 (C+), or 007.124 (C+), (or 007.134 (C+) or 007.144 (C+) and one of: 007.135, 007.136, or 007.137 (C+)) | 007.206, 007.250, 007.253, 015.237, 016.240, 136.2BA**, 136.2BB** | 007.244, 007.252, 007.374, 007.381, 006.343*, 006.360*, 016.250, 016.260, 016.261 | 007.313, 007.425, 007.432, 007.433, 007.467, 007.481, 073.483, 073.487 |
| **MAJOR IN** | | | | |
| **GEOPHYSICS** (or 007G) | | Plus 9 credit hours of Geological Sciences electives  
Plus 9 credit hours from: 007.329, 007.342, 007.349, 007.374, 007.375, 007.381, 007.428, 007.429, 007.431, 007.432, 007.433, 007.449, 007.452, 007.466, 007.481, 007.483, 007.487 |
| **(007P)** | | | | |
| **120 CREDIT HOURS** | | | | |
| Plus 6 credit hours from the Faculty of Arts, which may include the "W" course  
A Science background is recommended  
A "W" course and an "M" course must be taken in University I or Year II  
Plus 9 credit hours from: 007.329, 007.342, 007.349, 007.374, 007.375, 007.381, 007.428, 007.429, 007.431, 007.432, 007.433, 007.449, 007.452, 007.466, 007.481, 007.483, 007.487 |
3. Computer Science 074.101 is no longer an entry requirement for the Geophysics Honours and Major programs. It must be completed by the end of Year III.

4. Mathematics 136.2BA and 136.2BB replace 013.234 (013.239 and 013.249) in the list of required courses in Year II of the Geophysics Honours and Major programs. It is noted in footnote 3 that 136.2HA and 136.2HB may be taken in place of 136.2BA and 136.2BB. The credit hours in Year II of the Honours program have been increased from 30 to 32.

5. 006.343 and 006.360 replace 013.355 (or 006.325 and 006.347) in Year III of the Honours Geophysics program and 006.325 and 006.347 in Year III of the Geophysics Major program as the recommended courses, however Footnote 5 permits 006.325 and 006.347 to be used in place of 006.343 and 006.360.

6. 007.433 has been moved to Year IV of the Honours Geophysics program and the credit hours for Year III reduced to 34.

7. For the Geophysics programs only, the 3 Engineering Mathematics courses that are 4 credit hour courses (006.360, 136.2BA and 136.2BB) will count as 4 credit hour courses. The credit hours of electives specified in Year IV of the Honours Geophysics have been reduced to 3 to accommodate the extra hour in each of the three Engineering Mathematics courses.
grade of "C+" or better in 136.130 or 136.131 (or the former 013.146) and a grade of "C+" or better in one of 136.169, 136.170, 136.171 or 136.173 (or the former 013.149, 013.159, or 006.126).

136.2DA  **Linear Algebra II**  +3
A continuation of 136.130 (136.131 or the former 013.146). Finite dimensional vector spaces; linear transformations and matrices; eigenvalues and eigenvectors; diagonalization and applications; inner product spaces. Not to be held with 136.2LA or the former 013.235, 013.245, or 013.246. Pre-requisites: 136.130 or 136.131 (or both the former 013.146), and one of 136.150, 136.151, 136.152, 136.153 or 136.169 (or the former 013.139, 013.159, or 006.125).

136.2DAF  **Algèbre linéaire II**  +3

136.2LA  **Linear Algebra with Applications**  +6
Vector spaces, linear transformations, inner product spaces, eigenvalues and eigenvectors, orthogonal and Hermitian matrices, and applications. Not to be held with 136.2DA (or the former 013.246, 013.235 or 013.245). Pre-requisites: a grade of "C+" or better in 136.130 or 136.131 (or the former 013.146) and a grade of "C+" or better in one of 136.169, 136.170, 136.171 or 136.173 (or the former 013.149, 013.159, or 006.126).

136.2EA  **Applied Graph Theory**  +3
Graphs, planar graphs, directed graphs. Applications such as scheduling, assignments, timetabling, tournaments, networks with algorithms. Not to be held with the former 006.230. Pre-requisite: 136.130 or 136.131 (or the former 013.146).

136.2EF  **Combinatorial Mathematics**  +6
An introduction to several areas of current interest in combinatorial mathematics, including techniques of enumeration, graphs, block designs and generalizations, linear recursions. Not to be held with the former 013.247. Pre-requisite: an average of "C" or better in six credit hours of Year 1 Math courses with the exception of 136.100, 136.101, 136.102 (054.102) and 136.119 (or the former 013.123), or consent of instructor.

136.2EFF  **Mathématiques combinatoires**  +6
Une introduction à certains sujets d'intérêt courant en mathématiques combinatoires, c'est-à-dire les techniques d'énnumération, les graphes, les dessins de blocs et les généralisations, les récursions linéaires. L'étudiant ne peut se faire créditer le 136.2EFF à la fois avec l'ancien 013.247. Préalable : une moyenne de "C" ou plus dans un cours d'introduction en sciences mathématiques à l'exception de 136.100, 136.101, 136.102 (054.102) et 136.119 (ou un cours de Mathématiques de l'ancien niveau 100 à l'exception de l'ancien 013.123), ou consentement du département.

136.2FA  **Introduction to Number Theory**  +3
Topics may include divisibility, unique factorization, linear and quadratic congruences, Fermat's theorem. Not to be held with the former 013.226. Pre-requisite: an average of "C" or better in six credit hours of Year 1 Mathematics courses with the exception of 136.100, 136.101, 136.102 (054.102) and 136.119 (or the former 013.123), or consent of instructor.
136.2HB **Calculus III B** +3
Introductory analysis, sequences and series. *Not to be held with 136.2HF, or the former 013.234, 006.237, 006.238, 006.244, or 013.249.* Pre-requisite: one of 136.169, 136.170, 136.171 or 136.173 (or the former 013.149, 013.159, or 006.126). Co-requisite: 136.130 or 136.131 (or the former 013.146).

136.2HBF **Analyse, suites et séries.** +3

136.2HF **Calculus** +6
Sequences, series and power series. Differentiation and integration of real-valued functions of several real variables. *Not to be held with 136.2HA1, 136.2HB or the former 013.239, 013.249, 013.234, 006.227, 006.237, 006.238, 006.243 or 006.244.* Pre-requisites: a grade of "C+" or better in 136.130 or 136.131 (or the former 013.146) and a grade of "C+" or better in one of 136.169, 136.170, 136.171 or 136.173 (or the former 013.149, 013.159, or 006.126).

136.2JA **Ordinary Differential Equations with Applications I** +3
An introduction to the theory of ordinary differential equations, and practical techniques of solution, principally relating to first order and linear higher order equations; linear systems. Applications to problems in science and other selected areas. *Not to be held with the former 006.202, 006.226, 006.235.* Pre-requisites: 136.130 or 136.131 (or the former 013.146). Co-requisite: 136.2HA (or the former 013.239) or 136.2HF (or the former 013.234).

136.2JAF **Équations différentielles ordinaires et leurs applications I** +3

Courses to be modified:

006.320 **Numerical Mathematics II (3)**
Numerical differentiation and Gaussian quadrature; curve-fitting by splines; numerical methods for initial-value problems, boundary-value problems, and transforms; problems involving large, sparse or ill-conditioned linear systems. *Not to be held with the former 006.331.* Pre-requisites: 136.2GA (or the former 006.220), 136.2JA (or the former 006.235, 006.226), 136.2HA (or the former 013.239) and 136.2HB (or the former 013.249) (or 136.2HF (or the former 013.234)), and either 074.101 (or the former 074.120) or 074.123, or consent of instructor.

006.320F **Mathématiques numériques II (3)**
Différentiation numérique; quadrature Gaussienne; lissage à l'aide de splines; méthodes numériques pour les problèmes à valeurs initiales et problèmes aux frontières; transformations; problèmes ou intervenants les systèmes de grande taille, épars ou mal conditionnés. L'étudiant ou l'étudiante ne peut se faire créditer le 006.320 à la fois avec l'ancien 006.331. Préalables : 136.2GA (ou l'ancien 006.220), 136.2JA (ou l'ancien 006.235, 006.226), 136.2HA (ou l'ancien 013.239) et
006.442  Tensor and Variational Calculus (3)
An introduction to tensor calculus, differential forms, and variational principles on differentiable and Riemannian manifolds. Pre-requisites: the former 006.245 or 006.236, and six credit hours of 200 level calculus or consent of department. Co-requisite: one of 013.332, 013.340, 013.355 or consent of instructor.

013.332  Advanced Calculus (6)
Uniform convergence of series and integrals. Transformations, inverse and implicit function theorems. Vector analysis including Green’s and Stokes’ theorems. Not to be held with 013.340. Pre-requisites: 136.2HA (or the former 013.239), 136.2DA (or the former 013.246) and 136.2HB (or the former 013.249) or consent of instructor.

013.333  Modern Algebra (6)
An introduction to the structures and methods of modern algebra: groups, rings, fields; homomorphisms, quotients, substructures. Not to be held with 136.2AG (or the former 013.229) or 013.345. Pre-requisites: 136.2DA (or the former 013.246) and an additional six credit hours of 200 level mathematics courses, or consent of instructor.

013.338  Metric Spaces (3)
Definition of metric spaces; examples. Compactness, connectedness and continuity in metric spaces. Applications to analysis. Not to be held with 013.336. Pre-requisites: 136.2HF (or the former 013.234) and 136.2SR (or the former 013.237) or consent of instructor.

013.340  Advanced Calculus (6)
Vector analysis. The Riemann-Stieltjes integral, uniform convergence of series and integrals, power series and Fourier series. Not to be held with 136.2AG (or the former 013.229) or 013.345. Pre-requisites: 136.2DA (or the former 013.246) and an additional six credit hours of 200 level mathematics courses, or consent of instructor.

013.345  Advanced Algebra (6)
An introduction to abstract algebra with topics taken from among the theories of groups, rings, modules, fields and lattices. Not to be held with 136.2AG (or the former 013.229) or 013.333. Pre-requisites: 136.2LA (or the former 013.235) and 136.2SR (or the former 013.237) or consent of instructor.

013.347  Combinatorial Mathematics and Probability (6)
Counting principles, generating functions, recursion, combinatorial designs, graph theory. Pre-requisites: 136.2LA (or the former 013.235) and 136.2SR (or the former 013.237) or consent of instructor.

013.349  Theory of Numbers (6)
Divisibility, congruences; quadratic residues and reciprocity; introduction to analytic and algebraic number theory. Pre-requisites: 136.2HF (or the former 013.234) and 136.2SR (or the former 013.237) or consent of instructor.

013.370  Problem-Solving Seminar (6)
A seminar in problem solving in mathematics. Students will be actively involved in presenting and solving problems at a relatively advanced level. Pre-requisites: one of 136.169, 136.170, 136.171 or 136.173 (or the former 013.149, 013.159, or 006.126), plus 12 credit hours of 200 level or higher mathematics courses (excluding 136.2AF (or the former 013.228), 136.2AG (or the former 013.229), or the former 013.238), or consent of instructor.
136.2AFFM   Les systèmes des nombres, la géométrie et les applications  +6
Cours d'introduction pour futurs professeurs de mathématiques à l'élementaire. L'on étudiera les systèmes des nombres, la géométrie et l'analyse combinatoire élementaire. L'étudiant ne pourra se faire créditer à la fois le 136.2AF et l'ancien 013.228.

136.2AGM   Introduction to Algebraic Structures  +6
An introduction to sets, logic and algebraic structures with applications to arithmetic and geometry, for prospective teachers of elementary school mathematics. Not to be held with 013.333, 013.345 or the former 013.229. Pre-requisite: 136.2AF or the former 013.228.

136.2AGFM   Introduction aux structures algébriques  +6
Introduction à la théorie des ensembles, à la logique mathématique et aux structures algébriques avec application à l'arithmétique et à la géométrie. Ce cours est pour futurs professeurs de mathématiques à l'élementaire. L'étudiant ne pourra se faire créditer ce cours avec le 013.333 ou le 013.345 ou l'ancien 013.229. Préalable : 136.2AF (ou l'ancien 013.228).

136.2BA   Mathematical Methods for Engineers I (L)  +4
Fundamental techniques for solving engineering problems including series, elements of linear algebra, and ordinary differential equations. For Engineering and Geophysics students only. Not to be held with the former 006.237, 006.238, 006.244 or 006.260. Pre-requisite: one of 136.169, 136.170, 136.171 or 136.173 (or the former 006.126, 013.149 or 013.159).

136.2BB   Mathematical Methods for Engineers II (L)  +4
Laplace transforms and calculus of several variables including partial differentiation, multiple integrals, and applications. For Engineering and Geophysics students only. Not to be held with the former 006.227, 006.228, 006.243 or 006.261. Pre-requisite: one of 136.169, 136.170, 136.171 or 136.173 (or the former 006.126, 013.149 or 013.159). 136.2BA (or the former 006.260) also recommended.

136.2BC   Introductory Numerical Methods for Engineers (L)  +4
Numerical methods applied to problems in engineering; roots of nonlinear equations and systems of linear equations, numerical differentiation and integration, initial-value problems. For Engineering students only. Not to be held with 136.2GA (or the former 006.220, 006.270 or 010.344). Pre-requisite: 074.101 (or the former 074.111 or 074.112). Co-requisite: 136.2BA (or the former 006.260).

Service courses to be modified:

006.343   Mathematical Methods and Complex Analysis (4)
Theory and applications of complex function theory; complex Fourier series, Laplace transformation and its complex inversion; series solution of differential equations. For Engineering and Geophysics students only. Not to be held with 006.325. Pre-requisite: 136.2BB (or the former 006.261 or 006.238) or consent of department.

013.355   Advanced Mathematics for Physicists (6)
A course for students in Honours Physics. Pre-requisites: 136.2HF (or the former 013.234) or both of 136.2HA (or the former 013.239) and 136.2HB (or the former 013.249), or consent of instructor.

006.360   Mathematical Methods for Engineers III (3) L
Vector integral calculus, series solutions of ordinary differential equations, Fourier series, and an introduction to partial differential equations. For Engineering and Geophysics students only. Not to
### Proposed Program:

#### MATHEMATICS (136), (006), (013)

Head: G. Woods

General Office: 342A Machray Hall Telephone: (204) 474-8703

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<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
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<tr>
<td>HONOURS 120 CREDIT HOURS</td>
<td>(or 136.150' and 136.170' (B)), 005.100', 074.101'</td>
<td>In the above chart, University I and II are part of a revised program; please see note 8.</td>
<td>Both of the courses (unless already taken) 136.2EA and 136.2GA</td>
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<td>Plus 6 credit hours from the Faculty of Arts, which should include the “W” course</td>
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A “W” course must be taken in Year I or II

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<th>PROGRAM</th>
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<tr>
<td></td>
<td>(or 136.150' and 136.170' (B)), 005.100', 074.101'</td>
<td>In the above chart, University I and II are part of a revised program; please see note 8.</td>
<td>Plus an additional 12 credit hours from among the above and 013.347, 013.349, 013.373, 013.374, 013.376, 013.455, 013.456, 013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
<td>013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the “W” course</td>
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A “W” course must be taken in Year I or II

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<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>UNIVERSITY II</th>
<th>UNIVERSITY III</th>
<th>UNIVERSITY IV</th>
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<tbody>
<tr>
<td>APPLIED MATHEMATICS HONOURS DOUBLE MINIMUM 120 CREDIT HOURS</td>
<td>Arranged in consultation with departments concerned</td>
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#### JOINT APPLIED MATHEMATICS-STATISTICS HONOURS

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<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>UNIVERSITY II</th>
<th>UNIVERSITY III</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>(or 136.150' and 136.170' (B)), 005.100', 074.101'</td>
<td>In the above chart, University I and II are part of a revised program; please see note 8.</td>
<td>Plus at least an additional 3 credit hours from among the above and 013.347, 013.349, 013.373, 013.374, 013.376, 013.455, 013.456, 013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
<td>013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the “W” course</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A “W” course must be taken in Year I or II

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>UNIVERSITY II</th>
<th>UNIVERSITY III</th>
<th>UNIVERSITY IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLIED MATHEMATICS HONOURS DOUBLE MINIMUM 120 CREDIT HOURS</td>
<td>Arranged in consultation with departments concerned</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MATHEMATICS JOINT HONOURS COMPUTER SCIENCE-MATHEMATICS

See Section 4.13 Statistics

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>UNIVERSITY II</th>
<th>UNIVERSITY III</th>
<th>UNIVERSITY IV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(or 136.150' and 136.170' (B)), 005.100', 074.101'</td>
<td>In the above chart, University I and II are part of a revised program; please see note 8.</td>
<td>Plus at least an additional 3 credit hours from among the above and 013.347, 013.349, 013.373, 013.374, 013.376, 013.455, 013.456, 013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
<td>013.457, 013.460, 013.463, 013.465, 013.468, 013.469</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the “W” course</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

A “W” course must be taken in Year I or II

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>UNIVERSITY II</th>
<th>UNIVERSITY III</th>
<th>UNIVERSITY IV</th>
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</thead>
<tbody>
<tr>
<td>MATHEMATICS JOINT HONOURS COMPUTER SCIENCE-MATHEMATICS</td>
<td>See Section 4.5 Computer Science</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MATHMATICS
THREE YEAR
GENERAL

MATHMATICS
MINOR
(For students in
other faculties)

136.130', 136.150' and 136.170' (or 136.169) plus a minimum of 9 credit hours from 136.120 and 200 and (or) 300 level Mathematics (006, 013 and/or 136 numbered courses).

MATHMATICS PROGRAM INFORMATION

136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.131 may be taken in place of 136.130 and vice versa; 136.171 or 136.173 may be taken in place of 136.170 and vice versa.

005.100 and 074.101 do not have to be taken in Year I, but they have to be taken by the end of Year II.

016.360 may be substituted for 016.105

013.373 is required of all students; it may be taken in first term of either Year III or IV.

Students considering graduate work in pure mathematics should note that many graduate programs require a student to rectify any deficiencies in 013.448, 013.452, 013.462, 013.463.

The requirements for entry to the Faculty of Science programs are the same as Mathematics programs. Students are responsible for all prerequisites and corequisites of the courses required or selected in all programs above.

Unless otherwise specified, a minimum grade of “C” must be achieved for any course stipulated as prerequisite to a further course in Mathematics.

NOTE: Students entering either the Faculty of Arts or Science, and intending to take courses from the Department, are strongly advised to speak to a Science Student Advisor or the Faculty Advisor in the Department concerning an appropriate choice of mathematics courses.

Applied Mathematics
Honours Requirements and Optional Courses

This program provides students with an in-depth study of the fundamentals of classical and modern applied mathematics, and prepares them for entry to graduate programs in applied mathematics and other related fields.

The requirements for entry to the Honours program are 136.130 (B), 136.169 (B) or 136.151' and 136.171' (B). In addition, students must satisfy the Faculty of Science requirements for entry to Honours programs.

To graduate with the Honours degree, students must present a grade of “C” or better on courses which are used to meet the Applied Mathematics component of their degree program.

Recommended List of Electives for Years II, III and IV


Computer Science: 074.206, 074.208, 074.213, 074.219, 074.222, 074.223, 074.309, 074.310, 074.317, 074.337, 074.343, 074.348, 074.349, 074.442, 074.449.


Approved Actuarial Mathematics courses.

Other courses may be elected with Departmental approval.

Four Year Major in Applied Mathematics

This program is intended for students who wish to acquire a good and fairly specialized knowledge of useful mathematics and of some of the fields in which this knowledge may be applied.

To enter the Four Year Major in Applied Mathematics, a student must have a “C+” in either 136.169 or two of 136.130, 136.151', or 136.171', one of which must be either 136.151', or 136.171', and have satisfied all Faculty requirements for entry to the program. It is recommended that students take the above 9 credit hours of 100 level mathematics courses in their initial 30 credit hours, however, students should take at least 136.151', and 136.130.

To graduate with the Four Year Major degree, students must present a grade of “C” or better on courses which are used to meet the Applied Mathematics component of their degree program.

Four Year Major in Applied Mathematics with Option

(Computer Science, Economics, Management Sciences, Statistics)

These programs are broader than the Four Year Major in Applied Mathematics. They provide a sound general knowledge of applied mathematics together with a significant number of courses in the option area. Courses in the Computer Science option provide training in aspects of computer science which are most useful to the practicing mathematicians. Courses in the Economics, Management Sciences and Statistics options are fundamental to each area and provide a strong, mathematical basis for further study.

To enter the Four Year Major in Applied Mathematics with one of the above four options, a student must have a “C+” in either 136.169 or two of 136.130, 136.151', or 136.171', one of which must be either 136.151', or 136.171', and have satisfied all Faculty requirements for entry to the program. It is recommended that all students take 9 credit hours of 100 level mathematics courses in their initial 30 credit hours; however, students should take at least 136.130 and 136.150.

To graduate with the Four Year Major degree, students must present a grade of “C” or better on courses which are used to meet the Applied Mathematics component of their degree program.

Page -105-
The changes are:

1. All current Applied Mathematics courses, except for 136.2AB (formerly 006.241) and service courses, will be listed as "Honours and Major courses." All introductory courses currently numbered "136" will be categorized as "First Year Courses." The following courses will remain as "General courses": 136.2AB, 136.2FF, 136.2FA, 136.2HA, 136.2HB, 136.2DA, 136.2EF.

2. Applied Mathematics Honours: 136.120 and 016.105 have been deleted from University 1. Computer Science 074.101 and Statistics 005.100 may now be taken in University 1 or Year II and Footnote 2 reflects this. 136.151 and 136.171 have been changed to 136.150 and 136.170. The credit hours required from the options list has been reduced to 27 from 30. Year II courses have been deleted and replaced by the new 136.2SR, 136.2LA, 136.2GA, 136.2HF and 136.2JA. 006.230 has been deleted in Year II and replaced by 136.2EA, has been added as a required course in Year III. 006.220 has been deleted from Year III and replaced by 136.2GA in Year II.

The Mathematics Honours, the Mathematics Honours Double, the Applied Mathematics Honours, the Mathematics Four Year Major and Applied Mathematics Four Year Major programs now have a common first and second year.

3. The first two years of the Applied Mathematics and the Mathematics Major programs have been made the same. 136.120 has been deleted in University 1 and Statistics 005.100 and Computer Science 074.101 have been added as required courses in University 1 or Year II. Computer Science 074.102 has been deleted from the Mathematics Major program.

4. The Applied Mathematics Four Year Major with Computer Science option program has been revised to require 136.150 and 136.170 in lieu of 136.151 and 136.171 in University 1. The second year courses have been replaced by 136.2DA, 136.2GA, 136.2HA, 136.2HB and 136.2JA. 136.2EA has been added to the required courses in Years III and IV. Computer Science 074.227 has been deleted in the Software pattern and will be replaced by 074.371.

5. The Applied Mathematics Four Year Major with Economics option, Management Sciences option and Statistics option programs have made the same changes to the Mathematics courses as the previous program. In addition Economics 018.121 and 018.122 have been added as alternatives to 018.120.

6. The Applied Mathematics Three Year General and Minor programs have been deleted and amalgamated with the Mathematics General and Minor programs.

7. Footnote 2 has been deleted due to a prerequisite change to Physics 016.360.

8. Footnote 7 has been added to explain the transition regarding 006.245.
The changes are:

1. 136.120 has been deleted from University 1 and the elective credit hours increased to 9.
2. A grade of "B" has been added to 136.2HA and 136.2HB, which replaced 013.239 and 013.249, respectively. Footnote 5 has been added, recommending 136.2HF in place of 136.2HA and 136.2HB.
3. Footnote 6 has been deleted. 013.246 (3 credit hours) has been replaced by the full course 136.2LA.
4. 006.235 and 006.220 have been replaced by 136.2JA and 136.2GA, respectively.
5. 136.2SR has been added.
6. 006.245 has been deleted from Year II.
7. The number of credit hours of electives in Year II has been reduced from 9 to 6.
8. 136.2EA replaces 006.230 on the options list.
9. Footnotes 7 has been added to explain the transition in courses.
Proposed Program:

MATHEMATICS - PHYSICS AND ASTRONOMY JOINT PROGRAM (013P)

The Departments of Mathematics and Physics and Astronomy offer a Joint Honours program for students wishing in-depth study in both Mathematics and Physics.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOINT HONOURS</td>
<td>136.130(B), 136.151! and 136.171(B), (or 136.169(B)), 016.105 (B) (or 016.102(B) or 016.107 (B), 005.100, 074.101</td>
<td>016.226, 016.240, 016.250, 016.260, 016.261, 016.265, 136.2HF, 136.2LA, 136.2SR, 016.341, 016.369</td>
<td>013.338, 013.340, 013.345, 013.372, 016.365, 016.370, 016.341, 016.369</td>
<td>013.371, 013.373, 013.452, and another 6 credit hours of 400 level Mathematics and Honours courses, 016.343, 016.366, 016.437 plus 3 credit hours from 300 and 400 level Physics Honours courses</td>
</tr>
<tr>
<td>138 CREDIT HOURS</td>
<td>In the above chart, University 1 and Year II are part of a revised program, please see note 5.</td>
<td>In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.</td>
<td>In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.</td>
<td>In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.</td>
</tr>
</tbody>
</table>

013.131 may be taken in place of 136.130; 136.150, 136.152 or 136.153 may be taken in place of 136.151; 136.170 or 136.173 may be taken in place of 136.171.

016.103 is not suitable for entry to the program. Students must also take 016.107 if they have already taken 016.103. Students can hold credit for both 016.103 and 016.107.

The prerequisite of 016.237 is waived. It is recommended that students audit 016.237 in second year.

The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. As there are no electives in Year I of the program, students should complete the University written English requirement in Year I. If not completed in Year I, a "W" course must be completed prior to Year III in addition to the required Year II courses. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

Important Note: All the various Honours and Major mathematics programs are currently being revised. Students who are registered in University 1 or Year II in 2000/2001 are to follow the above listed program requirements up to the end of Year II only. A revised program for Years III or IV should be available in September 2000; please contact the Department of Mathematics for information. The above listed program requirements for Years III or IV pertain only to students who are registered in Years III or IV in 2000/2001. (Letters in brackets indicate minimum prerequisite standing for further study.)

The Changes are:

1. Statistics 005.100 and Computer Science 074.101 have been added to University 1.
2. Mathematics 136.150 and 136.170 have been changed to 136.151 and 136.171 and footnote 1 changed accordingly.
3. 013.234, 013.235 and 013.237 have been deleted and replaced by 136.2HF, 136.2LA, 136.2SR and 136.2JA in Year II.
4. 013.464 has been deleted from the list of required courses in Year IV. Students can now choose any 6 credit hours 400 level Mathematics in Year IV.
5. Footnote 5 has been added to explain the transition.
moyenne minimale combinée de 70% dans les cours de physique 40S et Mathématiques précalculus 40S.

016.105 Physics I: Mechanics (3) L
A calculus-based introduction to classical mechanics which includes vectors, translational kinematics and dynamics, work and energy, linear momentum and collisions, rotational kinematics and dynamics, and oscillatory motion. This course is intended for students considering a programme of study in engineering or the physical sciences. Pre-requisites: Pre-Calculus Mathematics 40S (or equivalent) and Physics 40S (or equivalent) or 016.090 (grade of "C+"). It is strongly recommended that students attain a minimum of 80% as the average of their marks in Physics 40S and Pre-Calculus Mathematics 40S. Co-requisite: One of 136.150, 136.151, 136.152, 136.153 or 136.169 (or the former 006.125, 013.139 or 013.159).

016.105 Physique I : la mécanique (3) L
Une introduction, basée sur le calcul, à la mécanique classique. Les sujets suivants seront traités : les vecteurs, la dynamique et la cinématique du mouvement de translation, la cinématique de la rotation, l'énergie, le travail, le moment linéaire, les collisions, le mouvement oscillatoire. Ce cours est destiné particulièrement aux étudiants qui voudraient poursuivre leur programme d'études dans les sciences physiques ou en ingénierie. L'étudiant ne peut se faire créditer à la fois le 016.105 et 016.102 (ou l'ancien 016.121) et les anciens 016.118, 016.120 et 016.127. Préalables : Mathématiques précalculus 40S (300) (ou l'équivalent) et Physique 40S (300) (ou l'équivalent) ou le 016.090 (avec une note d'au moins "C+"). Une moyenne minimale combinée de 80% dans cours Physique 40S et Mathématiques précalculus 40S. Corequis : un de 136.150, 136.151, 136.152, 136.153 ou 136.169 (ou les anciens 006.125, 013.139 ou 013.159).

016.261 Circuit Theory and Introductory Electronics (3) L
DC and AC circuit analysis (including Kirchhoff's laws, equivalent circuits, complex impedance, RLC circuits); semiconductors, diodes, transistors, transistor amplifiers. Not to be held with 130.118 or the former 016.269. Pre-requisite: 016.260.

016.265 Classical Mechanics I (3)
The first in a sequence of three courses on intermediate to advanced level mechanics. Topics include dynamics of a particle, conservation theorems, rotation, rolling motion, oscillations, gravitation and central force motion, and associated mathematical methods. Pre-requisite: 016.107 (or the former 016.106). Co-requisites: 016.237, and 136.2HF (or 136.2HA and 136.2HB) or the former 136.234 (or 013.239 and 013.249)).

NET CHANGE IN CREDIT HOURS: -6

Service courses to be deleted:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>016.118</td>
<td>Introductory Dynamics (L)</td>
<td>-3</td>
</tr>
<tr>
<td>016.229</td>
<td>Introductory Modern Physics IIC</td>
<td>-3</td>
</tr>
<tr>
<td>016.353</td>
<td>Modern Physics IIIA (L)</td>
<td>-3</td>
</tr>
<tr>
<td>016.355</td>
<td>Nuclear Physics IIIM</td>
<td>-3</td>
</tr>
</tbody>
</table>
Proposed Program:

PHYSICS AND ASTRONOMY (016)

Head: G. Williams
General Office: 301 Allen Building  Telephone: (204) 474-9817

<table>
<thead>
<tr>
<th>PROGRAM</th>
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<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS</td>
<td>016.105 (B) or 016.102*</td>
<td>016.226, 016.237, 016.240,</td>
<td>016.341, 016.343, 016.365,</td>
<td>016.437, 016.453, 016.452*,</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>(B+) and 016.107 (or the former 016.106) (B), 016.265,</td>
<td>016.250, 016.260, 016.261*,</td>
<td>016.369, 016.370, 136.2DA</td>
<td>016.467, 006.325</td>
</tr>
<tr>
<td></td>
<td>136.130* (B), 136.130* (B), 136.170* (B), 136.263 (or both of 136.2HA and 136.2HB)</td>
<td>136.263, 136.264 (or both of 136.2HA and 136.2HB)</td>
<td>Plus 3 credit hours of electives with one of the following strongly recommended:</td>
<td>Plus 9 credit hours from 016.235, 016.236, 016.243, 016.254, 016.455, 016.458, 016.464</td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td></td>
<td></td>
<td>016.462, 016.463, or 013.464</td>
</tr>
</tbody>
</table>

Astronomy courses may be used in place of some of the above courses with permission of the department. Consult the department advisor for details.

A "W" course and an "M" course must be taken in Year I or II

### JOINT MATHEMATICS-
PHYSICS AND ASTRONOMY

HONOURS

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUR YEAR</td>
<td>016.105 (C+) or 016.102*</td>
<td>016.237, 016.240, 016.250,</td>
<td>016.266, 016.261, 016.265,</td>
<td>016.343, 016.365, 016.454,</td>
</tr>
<tr>
<td>MAJOR *</td>
<td>(B) and 016.107 (or the former 016.106) (C+), 016.266, 136.120, 136.130*,</td>
<td>016.263, 136.263, 136.264</td>
<td>016.370, 136.2HA, (or both of 136.2HA and 136.2HB)</td>
<td>016.325, 136.2DA</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>136.150* and 136.170*</td>
<td>Plus 12 credit hours from 300 and 400 level Honours Physics and Astronomy courses</td>
<td>Plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td></td>
</tr>
</tbody>
</table>

Astronomy courses may be used in place of some of the above courses with permission of the department. Consult the department advisor for details.

A "W" course must be taken in Year I or II

### THREE YEAR

GENERAL

A minimum of 12 credit hours from 016.220, 016.225, 016.226, 016.227, 016.228, 016.235, 016.270, 016.336, 016.380

MINOR

(For students in other faculties) 016.103 (C+)

A minimum of 12 credit hours from 016.220, 016.225, 016.226, 016.227, 016.228, 016.235, 016.270, 016.336, 016.380

*Students must achieve a minimum grade of "C" in all Honours Physics and Astronomy courses that are either required in the program or required as prerequisites to other Physics and Astronomy courses taken in the Honours program.

016.103 is not suitable for entry to the Honours and Four Year Major program. Students must also take 016.107 if they have already taken 016.103. Students can hold credit for both 016.103 and 016.107.

136.131 may be taken in place of 136.130, 136.150, 136.170, 136.19, 136.150 or 136.170 may be taken in place of 136.150, 136.171 or 136.173 may be taken in place of 136.170, 136.195 may be taken in place of 136.150 and 136.170.

*Honours Physics and Astronomy Honours Mathematics courses may be substituted for one of 016.437, 016.451 or 016.452 with permission of the Department.

*A minimum grade of "C" and an average of "C+" is required on these two Mathematics courses.

The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. As there are no electives in Year II of the program, students should complete the University written English requirement in Year I. If not completed in Year I, a "W" course must be completed prior to Year III in addition to the required Year II courses. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

IMPORTANT NOTE: The Four Year Major program need not be completed in the manner prescribed in the chart above. The chart indicates the recommended arrangement of the required courses and is meant to be a guide around which students can plan their program with a view to satisfying the prerequisites of the required courses.

Engineering 130.118 may be used in place of 016.261.

(Letters in brackets refer to minimum prerequisite standing required for further study.)
Department of Statistics

Courses to be modified:

005.305 Introduction to Probability Theory and Its Applications (3)
Development of the basic concepts of probability theory and application in areas of biostatistics, actuarial science, reliability theory, queueing theory. Not to be held with the former 005.225. Pre-requisites: 005.200 (or the former 005.201, 005.211 or 005.221) and 136.2HA (or the former 013.239) and 136.2HB (or the former 013.249).

005.350 Intermediate Statistical Theory I (3)
Basic probability theory, distribution theory, special distributions and functions of random variables. Not to be held with the former 005.331 or 005.341. Pre-requisites: 005.200. Co-requisite: 136.2HA (or the former 013.239) or 136.2HB (or the former 013.249).

005.360 Intermediate Statistical Theory II (3)
Transformations, sampling distributions, convergence and introduction to estimation and hypothesis testing. Not to be held with the former 005.331 or 005.341. Pre-requisite: 005.350. Co-requisite: whichever of 136.2HA (or the former 013.239) or 136.2HB (or the former 013.249) not yet taken.

NET CHANGE IN CREDIT HOURS: 0

Service course to be deleted:

005.250 Introductory Probability and Statistics for Electrical Engineers (L) -3

Service course to be introduced:

005.2ES Contemporary Statistics for Engineers (L) +3
Descriptive statistics, basic probability concepts, special statistical distributions, statistical inference-estimation and hypothesis testing, regression, reliability, statistical process control. This course is for Engineering students only. Not to be held with 005.100, 005.200, or the former 005.101, 005.201, 005.210, 005.211, 005.220, 005.221 or 005.250. Pre-requisite: one of 136.171, 136.170, 136.173, 136.168 or 136.169.

NET CHANGE IN CREDIT HOURS: 0
To enter the Four Year Major
completed in first year.

To continue in the Four Year Major
achieve a 2.00 cumulative grade point average on all courses
applied to.

each session. Students must
April and August
the Four Year Major in Year
must have a
the Faculty requirements for

The Change
Students will normally take 005.200 in second year and enter
the Four Year Major in Year 2 of the Major program if 005.200 is successfully

To continue in the Honours program a student must achieve a
and
student must have either a grade of
better with a minimum grade of
in 136.169.

To continue in the Honours program a student must achieve a
sessional grade point average of 2.50 or better

To enter the Honours program students must have a grade of
and

To enter the Four Year Major program students must have a “B” or
cumulative average of “B” or better with a minimum grade of “C+” in each of 136.150
and 136.170; or a minimum grade of “C+” in 136.169.

To continue in the Honours program a student must achieve a
sessional grade point average of 2.00 or better in

The department must approve a student’s Honours program
each session. Students must departmental approval for any
and all revisions to their programs.

Four Year Major Requirements
Students will normally take 005.200 in second year and enter
the Four Year Major in Year 3, however a student may enter
Year 2 of the Major program if 005.200 is successfully
completed in first year.

To enter the Four Year Major program in Statistics, students
must have a “C+” or better in 005.200 and either: an
average grade of “C+” or better with a minimum grade of
“C” in each of 136.150 and 136.170; or a minimum grade of “C” in 136.169. In addition, students must have satisfied
the Faculty requirements for entry to the Four Year Major.

To continue in the Four Year Major program a student must
achieve a 2.00 cumulative grade point average on all courses
applied to, and attempted in, the program as assessed after
each April and August examination series.

To graduate from the Four Year Major program a student
must have a 2.00 cumulative grade point average on all
Statistics (005) courses used to meet a program requirement.

The department must approve a student’s Four Year Major
program each session. Students must departmental approval for any
and all revisions to their programs.

In order to improve their academic backgrounds as well as
job opportunities, students should carefully elect the optional
courses in this program. They should particularly consider
the following sequence of courses in Economics and
Computer Science.

Economics: 018.120 (or 018.121 and 018.122), 018.245, 018.246, 018.247, 018.248, 018.317, 018.318, 018.373, 018.412, 018.413.

Computer Science (Software and Artificial Intelligence): 074.125, 074.127, 074.101 and 074.102, 074.205, 074.208, 074.213, 074.310 or 074.348, 074.420, 074.438.

Computer Science (Numerical Analysis and Graphics): 074.126, 074.127, 074.101 and 074.102, 074.206, 074.208, 074.213, 074.219, 074.314 or 074.349.

NOTE:
If students envisage, even after a gap, a Master’s in Statistics, it is
recommended they take 005.305, 005.347, 005.348, 005.414 and three
courses from among 005.458, 005.459, 005.462, 005.469 and
005.470.

Three Year General
As prescribed with all other Faculty regulations in Section
3.2, students in this program must select 30 credit hours of
200 and (or) 300 level courses from two (2) Science
departments. To satisfy the requirement in the Department of
Statistics, students must select a minimum of 12 credit hours
from the list in the above chart.

Prerequisite Information
Students are responsible for all prerequisites and corequisites
of the courses required or selected in all programs above.

Honours Requirements
Students will normally take 005.200 in second year and enter
Honours in Year 3, however a student may enter Year 2
Honours if 005.200 is successfully completed in first year.

To enter the Honours program students must have a “B” or
cumulative grade of “B” or better with a minimum grade of “C+” in each of 136.150
and 136.170; or a minimum grade of “C+” in 136.169.

To continue in the Honours program a student must achieve a
sessional grade point average of 2.50 or better as assessed after
each April and August examination series, with a
maximum of 6 credit hours of failures in each session. A
student must have either a grade of “C+” or better in
136.2HF or a grade of “C+” or better in each of 136.2HA
and 136.2HB.

The department must approve a student’s Honours program
each session. Students must departmental approval for any
and all revisions to their programs.

Four Year Major Requirements
Students will normally take 005.200 in second year and enter
the Four Year Major in Year 3, however a student may enter
Year 2 of the Major program if 005.200 is successfully
completed in first year.

To enter the Four Year Major program in Statistics, students
must have a “C+” or better in 005.200 and either: an
average grade of “C+” or better with a minimum grade of
“C” in each of 136.150 and 136.170; or a minimum grade of “C” in 136.169. In addition, students must have satisfied
the Faculty requirements for entry to the Four Year Major.

To continue in the Four Year Major program a student must
achieve a 2.00 cumulative grade point average on all courses
applied to, and attempted in, the program as assessed after
each April and August examination series.

To graduate from the Four Year Major program a student
must have a 2.00 cumulative grade point average on all
Statistics (005) courses used to meet a program requirement.

The department must approve a student’s Four Year Major
program each session. Students must departmental approval for any
and all revisions to their programs.

In order to improve their academic backgrounds as well as
job opportunities, students should carefully elect the optional
courses in this program. They should particularly consider
the following sequence of courses in Economics and
Computer Science.

Economics: 018.120 (or 018.121 and 018.122), 018.245, 018.246, 018.247, 018.248, 018.317, 018.318, 018.373, 018.412, 018.413.

Computer Science (Software and Artificial Intelligence): 074.125, 074.127, 074.101 and 074.102, 074.205, 074.208, 074.213, 074.310 or 074.348, 074.420, 074.438.

Computer Science (Numerical Analysis and Graphics): 074.126, 074.127, 074.101 and 074.102, 074.206, 074.208, 074.213, 074.219, 074.314 or 074.349.

NOTE:
If students envisage, even after a gap, a Master’s in Statistics, it is
recommended they take 005.305, 005.347, 005.348, 005.414 and three
courses from among 005.458, 005.459, 005.462, 005.469 and
005.470.

Three Year General
As prescribed with all other Faculty regulations in Section
3.2, students in this program must select 30 credit hours of
200 and (or) 300 level courses from two (2) Science
departments. To satisfy the requirement in the Department of
Statistics, students must select a minimum of 12 credit hours
from the list in the above chart.

*136.131 may be taken in place of 136.130; 136.151, 136.152
or 136.153 may be taken in place of 136.150; 136.171 or
136.173 may be taken in place of 136.170*

The Change is:

1. Economics 018.121 and 018.122 may be substituted for the optional full course
018.120 in the Statistics Major program.

2. 013.239 and 013.249 (or 013.234) have been replaced by 136.2HA and 136.2HB (or
136.2HF) in Year II of the Honours program.

3. 013.246 has been replaced by 136.2DA in Year II of the Honours program.

4. 013.239 and 013.249 have been replaced by 136.2HA and 136.2HB in the Four Year
Major program and in Footnote 6.

5. Computer Science 074.227 has been deleted and therefore removed from the
suggested optional courses in the Four Year Major program text.
Statistics - Mathematics Joint Honours Programme

Proposed Program:

**STATISTICS - MATHEMATICS JOINT PROGRAM (005M)**

The Departments of Statistics and Mathematics offer a Joint Honours program for students wishing in-depth study in Statistics and Mathematics.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOINT HONORS</td>
<td>005.100, 136.130(B), 136.169(B)</td>
<td>005.200</td>
<td>005.305, 005.347, 05.348</td>
<td>005.414* 005.452, 005.453*</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>(or 136.150*) and 136.170(B), 074.101*</td>
<td>136.22A, 136.2LA, 136.2SR, 136.2GA</td>
<td>(or 005.312 and 005.313*) 013.345* 013.373*, 013.452, 005.350 and 005.360,</td>
<td>013.338, 013.340, 013.372, Plus 6 approved credit hours</td>
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<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>Plus 6 approved credit hours</td>
<td>005.350 and 005.360,</td>
<td>Plus 6 approved credit hours</td>
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<td></td>
<td>Plus 9 credit hours</td>
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<tr>
<td></td>
<td>A &quot;W&quot; course must be taken in Year I or II*</td>
<td>In the above chart, University I and Year II are part of a revised program; please read note 7</td>
<td>In the above chart, Years III and IV are part of an old program which is being revised; please see note 7.</td>
<td></td>
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<tr>
<td></td>
<td>30 Hours</td>
<td>30 Hours</td>
<td>30 Hours</td>
<td>30 Hours</td>
</tr>
</tbody>
</table>

1. 013.131 may be taken in place of 136.130; 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.
2. May be taken in Year II.
3. May be taken in Year III.
4. 005.200 may be taken in Year I.
5. 003.312 and 003.313, with an average grade of "B" and a minimum grade of "C+" on each course, may be used in lieu of 005.347 and 005.348.
6. The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.
7. Important Note: All the various Honours and Major mathematics programs are currently being revised. Students who are registered in University I or Year I in 2000/2001 are to follow the above listed program requirements up to the end of Year II only. A revised program for Years III or IV should be available in September 2000; please contact the Department of Mathematics for information. The above listed program requirements for Years III or IV pertain only to students who are registered in Years III or IV in 2000/2001. (Letters in brackets indicate minimum prerequisite standing for further study.)

The Changes are:

1. 013.234, 013.235 and 013.237 have been deleted and replaced by 136.22A, 136.22B and 136.22C in Year II, and the number of credit hours of electives have been reduced from 9 to 6.
2. 074.101 has been added to University I or Year II (as outlined in Footnote 2) and the credit hours of electives have been reduced to 9.
3. The grade requirements for the first year Mathematics courses have been specified ('B' grades are required in 136.130 and 136.170 (or 136.169).
4. Footnote 7 and the sentences in the chart have been added to explain the transition.
Proposed Program:

**ZOOLOGY (022)**

Head: E. Huebner

General Office: Z320 Duff Roblin Building  Telephone: (204) 474-9245

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS SINGLE</td>
<td>071.125, 002.130, 002.131</td>
<td>022.215, 022.228, 022.232, 022.237 (001.237 or 065.237), 022.260, 002.277 and 002.278 (060.277 and 060.278) or 002.221 and 002.236 (060.236) and 002.237 (060.237)</td>
<td>022.353 and 022.354, 022.375, 022.400 and 022.411, 001.246</td>
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<tr>
<td>120 CREDIT HOURS</td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>Plus an additional 21 credit hours from the remaining 300 and 400 level Zoology courses and 6 hours from Botany. Microbiology or electives from a related field.</td>
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<tr>
<td>HONOURS DOUBLE MINIMUM</td>
<td>071.125, 002.130, 002.131</td>
<td>Arranged in consultation with departments concerned</td>
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<tr>
<td>120 CREDIT HOURS</td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>A &quot;W&quot; course and an &quot;M&quot; course must be taken in Year I or II</td>
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<tr>
<td>FOUR YEAR MAJOR*</td>
<td>071.125, 002.130, 002.131</td>
<td>022.232, 022.260, 022.277 and 022.278, 002.221 and 002.236 (060.221 and 002.236) (060.236) and 022.237 (060.237)</td>
<td>022.353 and 022.354, 022.400, 001.246</td>
<td></td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>Plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td>Plus an additional 21 credit hours from the remaining 300 or 400 level Zoology courses. 022.215, 022.228, 022.237 (001.237 or 065.237), 001.246</td>
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<tr>
<td></td>
<td></td>
<td>which must be taken in Year I or II</td>
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<tr>
<td>THREE YEAR GENERAL</td>
<td>A minimum of 12 credit hours from 200 and (or) 300 level Zoology courses or Botany 001.246 and 001.346</td>
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<tr>
<td>MINOR (For students in other faculties)</td>
<td>071.125</td>
<td>12 credit hours from 200 and 300 level Zoology courses or Botany 001.246 and 001.346</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOINT BOTANY-ZOOLOGY HONOURS AND FOUR YEAR MAJOR ECOLOGY PROGRAM</td>
<td>See Section 4.6 Ecology Program</td>
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</tr>
</tbody>
</table>

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Courses Offered in Other Faculties and Schools Acceptable for Credit in Science

Faculty of Physical Education and Recreation Studies

Course to be added:

123.402 Resource-Based Outdoor Recreation/Education (3)
Basic concepts of resource-based outdoor recreation/education including natural resources/ environmental awareness resource identification and assessment programmes and activities, outdoor programme planning and methods. Pre-requisites: 123.140.

13. Faculty of Social Work

Course to be modified:

047.408 Current Issues in Social Welfare (3-0:0-0) or (0-0:3-0) 3
Study of a particular area of social welfare to improve policies and practices. Students may select one seminar from several which are offered. These may vary from year to year. Pre-requisite: 131 or written permission of the instructor.

NET CHANGE IN CREDIT HOURS: 0
The University of Manitoba
Human Resources Department

Equity Services Office
Annual Report 1999

Submitted: November 1999
The Equity Services Office (ESO) is part of the Human Resources Department, University of Manitoba and provides services to the University Community in: Diversity Education, Employment Equity and Human Rights/Sexual Harassment Advice and Investigation. In response to comments in Senate last year we have attempted to streamline our report and at the same time provide you with more pertinent information. The first section will be a report from the Diversity Education Coordinator followed by the Human Rights/Sexual Harassment Advisor and Investigator. The next section will provide the reader with the critical issues that we have identified this year as well as the action we have taken or proposed action for the future. The final sections of the report will deal with matters related to Employment Equity and Mediation Service. We have also included graphs pertaining to incidents of sexual harassment/human rights as well the educational programming that was provided. This year the Human Resources Department reorganized its leadership structure. Below is a list of people who work within the ESO and on the following page you will find the new organizational chart that indicates where the ESO now reports.

EQUITY SERVICES STAFF

Diversity Education Coordinator: Cheryl Kristjanson
Employment Equity Officer: Mary Galloway
Equity Services Advisor: Maggie Duncan
Human Rights/Sexual Harassment Investigator: Jannine LeMere
University Mediation Service: Dan Bradshaw
DIVERSITY EDUCATION

A QUALITY DIVERSITY EDUCATION PROGRAM:

1. Is both responsive and responsible.
2. Acknowledges common ground as well as differences.
3. Addresses immediate needs and priorities.
4. Respects different views.
5. Evaluates initiatives, sets goals and anticipates future needs.

HOW DO WE DEFINE SUCCESS:

Currently, the emphasis is on individual accountability. Each individual is responsible for ensuring their behaviour does not violate the sexual harassment/human rights policies and the employment equity officer takes responsibility for the employment equity program. We will achieve success when we shift the onus from individual accountability to collective accountability.

HOW DO WE GET THERE?

1. Focus on immediate issues and opportunities.
2. Encourage groups to work together.
3. Participate in discussions of what we value and why.
4. Agree on new directions and/or solutions.

MY ROLE:

1. Increase the common understanding of existing policies/issues.
2. Facilitate discussion of conflicting issues, beliefs and values.
3. Outline areas that need rethinking or affirmation.
4. Ensure changes include a balanced view.

LISTING OF WORKSHOPS AVAILABLE ON REQUEST:

1. Human Rights / Sexual Harassment: Rights and Responsibilities
2. Inclusive Teaching Strategies
3. Diversity and Communication Styles
4. Coping with Harassment: Chilly Climate Issues
5. Evaluating Diversity Programs
6. Search Committee Issues
CRITICAL ISSUES AND ACTIONS

1. FEAR OF RETALIATION:
Many people on campus still feel uncomfortable reporting instances of sexual harassment or a human rights violation for fear this will result in further harassment or retaliation.

ACTION TAKEN:
In response to this concern, the Equity Services Office has developed a workshop entitled “First Responder”. The focus of this workshop will be to educate administrative heads on how to create an environment where people feel comfortable reporting and secondly how to deal with complaints in an appropriate manner.

2. HUMAN RIGHTS/SEXUAL HARASSMENT POLICIES VS FREEDOM OF EXPRESSION:
On occasion, there are situations where members of the University file a complaint based on one of our policies and the respondent defends their words/actions by stating it falls within academic freedom or freedom of expression.

ACTION TAKEN:
The Equity Services Office has developed a workshop entitled “Academic Freedom/Freedom Of Expression, Rights and Responsibilities”. The purpose of this workshop is to discuss where Academic Freedom and Freedom of Expression Rights may come in conflict with existing policies.

3. DIFFICULTY REACHING SUPPORT STAFF AND ADMINISTRATIVE UNITS:
The audience that has been the most difficult to access is support staff and administrative units.

RECOMMENDED ACTION:
In addition to providing annual workshops to New Faculty, Teaching Assistants, University One and requested workshops for faculty and students, it is recommended that the Equity Services Office will develop a three year rotational plan for all Administrative /Support Staff Units. The purpose would be to visit each unit on a scheduled rotational basis to provide educational programming. These units would also have the option to request additional services as needed.
No. of Educational Sessions

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Support Staff</th>
<th>Students</th>
<th>Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>33</td>
<td></td>
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</tbody>
</table>

Level of presentation

<table>
<thead>
<tr>
<th>Awareness</th>
<th>Action</th>
<th>Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>24</td>
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</tbody>
</table>
an ex-employee of the University this would not fall within the jurisdiction of our office, as the respondent is no longer a member of the University. That is not to say that our office would not provide any informal advice and assistance we could, but rather that we would not have the authority to intervene in such a situation.

If the parties and the behaviour appear to fall within our jurisdiction, then the next determination we would have to make would be to decide if the behaviour, as alleged, could potentially constitute sexual harassment or a human rights violation. For example, many individuals come to our office with complaints of bullying or abusive behaviour (generally called personal harassment) which does not fall within any human rights or sexual harassment definition of prohibited conduct. If this were the case, the office would not have the authority to intervene in the matter. We may attempt to help by providing advice and assistance or by making a referral to the Ombudsman’s office.

In a separate category altogether are “concerns” which are brought to the attention of the office. These may or may not evolve into informal or written complaints. They are generally situations of public knowledge which are often reported in the media and may involve a member of the University constituency. For example, from time to time articles or cartoons published in various University newspapers are brought to our attention. Before these “concerns” can be considered as complaints several things must happen including the presence of a bona fide complainant (the University may initiate an investigation in the appropriate circumstances), the determination of jurisdiction and a prima facie determination of whether the impugned behaviour could potentially fall within the definitions of the Policy. It is impossible to set out an exact path that each “concern” will follow, as every case is different.

We now wish to deal briefly with the issue of confidentiality. Each policy states that “all enquiries shall be treated in strict confidence.” While some may find this wording equivocal, the office interprets this section to mean that we do not normally share the details of any complaint, at an informal stage, with anyone unless the complainant authorizes us to do so. There are always exceptions to every rule. Examples might include situations where we felt the complainant was in imminent danger or where the matter was already in the public forum.

In the case of a formal or written complaint the Policies dictate that the respondent shall receive a copy of the complaint. This type of investigation is carried out in cooperation with an appropriate administrative officer. Aside from those individuals, other witnesses may need to be contacted. Everyone interviewed in the formal process is advised that the matter is confidential. They are instructed not to discuss it with anyone else. Both Policies provide that breaches of confidentiality may constitute interference or retaliation and thus be subject to disciplinary action.

Jannine LeMere
Investigation Officer
We are aware that many computer laboratories on campus have signs posted regarding the proper use of the computers within their laboratories. We are working collaboratively with computer services to ensure that all users are aware and understand these policies.

Other Activities

In addition to the handling of formal and informal investigations, the Sexual Harassment/Human Rights office was involved in a number of other matters. These included giving advice, counselling and assistance on an informal basis where no file was opened. This occurred on 47 separate occasions this year. Files were not opened because the matter may have been brief, the complainant may have wished to remain anonymous or the caller was seeking advice on behalf of someone else. In addition many complainants who wish to handle a situation themselves, come to or call our office first, to seek advice on ways to do this.

Further advice and assistance was given on 23 other matters where complainants presented with problems which did not fall under our Sexual Harassment or Human Rights policies. These matters concerned:

- matters of personal harassment
- employment performance issues
- relationship issues
- personal and office relationships

On average, two hours of time was devoted to each of these matters. With the advent of the Ombudsman's office some of the foregoing matters can be directed there in the future.

Many times an individual comes to the Equity Services Office seeking advice and a referral is made to another area on campus, for example (but not limited to):

- Aboriginal Student Centre
- Chaplains
- Counselling Service
- Dean, Director or Department Head of Unit
- Disability Services
- Human Resources
- International Centre for Students
- Office of the Ombudsman
- Security Services
- Student Advocacy
- Union
FORMAL INVESTIGATIONS

In this year's annual report we have attempted to provide more meaningful information to the reader about the nature of the cases we investigate by providing more factual details from the cases and greater explanations of their resolutions, while at the same time sanitizing the circumstances such that confidentiality is maintained.

The following summarizes most of the formal cases investigated in this reporting period:

Sexual Harassment

3084
A student filed a complaint in 1995 regarding sexual harassment she experienced at the University several years previous. Due to the harassment in her field placement she left her program of study and did not complete her degree. She sought the assistance of her faculty and the Equity Services Office to graduate. In the interim she had done sufficient course work and practical training in another jurisdiction such that the faculty was prepared to support her application to re-enter the University of Manitoba and graduate with her bachelor's degree. The Equity Services Office assisted this individual by co-authoring a letter to Admissions seeking their approval to allow her to re-enter the University. The student successfully completed her program at the University of Manitoba and graduated with her bachelor's degree.

3113
A student complained that one of her classmates had made inappropriate sexual and derisive comments about her to others while in her presence. These comments concerned the student's appearance and sexual activity. The student also complained that the respondent was planning acts of violence against her and had committed a criminal act. The complainant cited numerous witnesses to the comments. The respondent denied the behaviour, as did all of the witnesses. The complaint was not sustained. Assistance was provided to the complainant through the Dean's office and counselling.

3115
The University initiated this formal investigation on the basis of information received from a University residence. Two male students walked, uninvited, into a female student's room in the early morning hours. Non-consensual contact occurred between one male respondent and the two females who were in the room. The female student was eventually able to get the males to leave her room. The investigation found that the Policy had been breached with respect to the one male student who took an active role. He was expelled from the University.
status. In this case the professor's children were denied coverage because he was divorced from his spouse. The children therefore did not meet the definition of dependent, as they did not reside with the professor. The Equity Services Office assisted the professor and with his permission brought the case to the attention of the Human Resources Department. The matter was resolved by way of the professor receiving the same benefits a married person would have under the package. He was satisfied with this result and no longer wished to pursue a formal complaint.

**055**

A male student wished to file a formal complaint against a professor on the basis that he felt he had been discriminated against because of his colour. Although he described the professor's behaviour as “demeaning, prejudiced and slanderous,” in the complaint itself no correlation could be found between his allegations and the evidence. The substance of the complaint surrounded the professor's mark and comments on a paper the student had submitted. The Equity Services Office attempted to assist the student by referring the matter to mediation services. The student was advised that his complaint would not be investigated under the *Policy on Human Rights*.

**056**

Three students complained that a professor's language and demeanor in the classroom discriminated against homosexuals. The professor provided credible explanations in response to the allegations and cited the context in which some of the examples were used. It was determined that the *Policy on Human Rights* was not violated.

Jannine LeMere
Investigation Officer
SEXUAL HARASSMENT
FORMAL/INFORMAL
COMPLAINTS

1996 covers a 21-month period due to adjustment in year end

HUMAN RIGHTS
FORMAL/INFORMAL
COMPLAINTS

1998 covers a 15-month period due to adjustment in year end

SEXUAL HARASSMENT
GENDER OF COMPLAINANTS
AND RESPONDENTS

1 U.of M., 1 Mixed, 7 Male, 25 Female
Respondents
1 U.of M., 2 Mixed, 25 Male, 6 Female

HUMAN RIGHTS
GENDER OF COMPLAINANTS
AND RESPONDENTS

1 U.of M., 1 Mixed, 4 Male, 4 Female
Respondents
2 U.of M., 4 Mixed, 3 Male, 1 Female

Complainants
This complaint concerns offensive e-mail the respondent circulated to a group of students. When the complainant refused to start a romantic relationship with the respondent, he sent two e-mails to her circle of peers and associates at the University making derogatory sexual comments about her. The respondent was found to have been breached the Policy and was expelled from the University. This disposition was upheld on appeal to Senate.

The complainant and respondent had a casual dating relationship. The complainant decided to end it. The respondent was in a supervisory position to the complainant with respect to certain aspects of her practical training. On one occasion after the breakup the respondent cornered the complainant late at night when no one else was around. He trapped her in a room and made her feel vulnerable by yelling and swearing at her and preventing her from leaving for over an hour. On another occasion he forced his way into her current boyfriend's residence and created damage for which he was criminally charged. The respondent was found to have breached the Policy and his employment with the University was terminated. He was banned from the campus.

Both of these formal complaints were filed by a male student against two different female students. The male student had formerly been the subject of a complaint by one of the females. It appeared that these accusations were in retaliation for the former complaint against him. It was determined on the basis of the complaints that there was no prima facie breach of the Policy. Therefore the male student was advised that our office would not investigate the matter. While this matter was being considered the male student left the University.

Three students advised that they wished to file a formal complaint with respect to a certain professor's derisive language with respect to Aboriginal people. The students indicated that they wished to wait until they had completed their course work and received their marks before filing their complaint. Several attempts at contact were made with the students however in the end, none chose to respond, nor file a formal complaint.

A professor filed a formal complaint against the University claiming that its staff benefits package discriminated against individuals on the basis of their marital
In some instances referrals are made outside the university when it is clear that the matter is one that falls outside the jurisdiction of the University of Manitoba.

The following chart gives a breakdown of how our time was spent in the Human Rights and Sexual Harassment area of Equity Services for this reporting period:

Sexual Harassment/Human Rights/Other Activities of the Equity Services Office
By Nature of Complaint

- Sexual Harassment 34/114 matters = 30%
- Human Rights 10/114 matters = 9%
- Miscellaneous Contacts related to Sexual Harassment and Human Rights 47/114 matters = 41%
- Contacts not related to Sexual Harassment/Human Rights 23/114 matters = 20%

Total 100%

Maggie Duncan
Equity Services Advisor
INFORMAL COMPLAINTS

In response to comments received last year we have not included charts summarizing the individual cases for sexual harassment and human rights as it was felt they did not provide enough meaningful information for the reader. We have attempted to provide this same information through the graphs and charts on pages 12, 16 and 17.

Human Rights Activities

During the current reporting period there was 1 new file opened and 9 files carried over from the previous reporting period for a total of 10 files. Of these 10 files, 6 were informal and 4 were formal. More detail on formal investigations will follow.

Briefly the informal concerns involved:
- Discrimination on basis of:
  - gender
  - physical appearance
  - marital status
  - medical disability
  - sexual orientation
  - cultural background

Sexual Harassment Activities

During the current reporting period there were 16 new files opened, 1 file was reopened and 17 files were carried over from the previous reporting period for a total of 34 files. Of these 34 files, 22 were informal and 12 were formal. More detail on formal investigations will follow.

With respect to the informal cases, some of the concerns involved:
- inappropriate and unwelcome touching, behaviour and comment
- displaying of pornography on computer screens
- sexually harassing e-mails.

This year we have noted an increase in concerns from individuals who have observed members of the university community viewing pornography on their computers. We have also seen an increase in the number of concerns of the abuse of the university e-mail system. The University of Manitoba’s policy 238: Use of computer facilities outlines the use of the university’s computer facilities by all staff and students at the university. Our understanding of this policy is that when an individual violates this policy they can lose their computer privileges.
HUMAN RIGHTS/SEXUAL HARASSMENT

COMPLAINT PROCESS

Although the Policies on Human Rights and Sexual Harassment set out the step by step process to make a complaint, the interplay between the various sections of the respective policies is often confusing. We felt through this annual report we might be able to provide some clarification.

The Policies provide for two types of complaints: an informal complaint and a written complaint (which is often described as a formal complaint). When someone makes an informal complaint he or she is generally seeking advice and assistance from our office. The Equity Services Advisor would deal with the matter. The situation may be brought to our attention by a complainant or by an administrative officer. The action taken in such a situation would depend, to a great extent, on the wishes of the complainant. If the complainant simply wants advice with no action taken, that wish will be respected. If, on the other hand, the complainant wants our office to intervene in a situation, we will do so. The resolution of matters through an informal process depends, to a large degree, on the cooperation of both parties and their ability to agree on the essential elements of the dispute. An example of a resolution of an informal complaint might be that one party apologizes to the other. The informal process does not permit our office to impose any sanctions on anyone, nor to make formal findings of fact or credibility. This is so because there has not been an investigation of the matter. A complainant has the option to file a written complaint if the informal process did not achieve a satisfactory result in his or her view.

When a written complaint is filed, the Investigation Officer handles the matter. A copy of the written complaint is provided to the respondent (person alleged to have committed the offensive behaviour) and he or she is given an opportunity to respond in writing. Both parties are then interviewed, along with any other relevant witnesses. The investigation is carried out in cooperation with the appropriate Administrative Officer (usually a dean, director or department head).

At the conclusion of the evidence-gathering stage a written report is generated which makes findings of fact and determines whether the Policy has been violated. If there is a positive finding then the Administrative Officer will meet with the Vice-President (Administration) and determine an appropriate course of action. Their decision is then communicated to the complainant, respondent, Administrative Officer and Investigation Officer. Through the formal process sanctions can be imposed upon the parties.

Before embarking on either process, initial determinations such as jurisdiction with respect to the behaviour or the individuals allegedly involved must be made. For example, if something happened between two University of Manitoba students at a bar on Pembina Highway on the weekend this would generally not fall within the University's jurisdiction because being at the bar is not a University-related activity. If a University staff member is having problems with
4. **INAPPROPRIATE REFERRALS:**
We often have students and/or staff attend to the office with a complaint that does not fall under our policy.

**RECOMMENDED ACTION:**
In conjunction with the Student Advocacy Office and the Office of the Ombudsperson, it is recommended that Equity Services produce a joint brochure that outlines the responsibilities of each office.

5. **MANAGEMENT ISSUES:**
Occasionally, the Equity Services Office receives a complaint that someone has violated the sexual harassment/human rights policy by using language with a sexual or racial overtone in the workplace. Although this may be a violation of the policy, sometimes it is a result of initial work conflicts that have nothing to do with sexual harassment and or human rights. For example, two employees are in conflict about whose responsibility it is to complete a certain task. The disagreement is ongoing and eventually erupts into a shouting match where inappropriate language is used.

**RECOMMENDED ACTION:**
It is proposed that the Equity Services Office offer workshops to managers and administrative heads on how to integrate equity/diversity issues into performance reviews and how to develop/maintain respectful workplaces.

6. **EDUCATIONAL PROGRAMMING FOR RESPONDANTS**
As part of a finding, a recommendation may be made that a respondent attend educational sessions or seek counselling.

**ACTION TAKEN:**
The Equity Services Office in conjunction with counselling services has developed a formal process where respondents can participate in an individual educational program. Where education does not seem to be appropriate counselling may be suggested as an alternative.

Cheryl Kristjanson
Diversity Education Coordinator
7. Assessment Practices
8. Homophobia
9. Learning Styles
10. Stereotyping
11. Respectful Workplace Issues

- In addition, custom workshops will be developed on request

HOW TO REQUEST DIVERSITY EDUCATION:

1. Contact the Equity Services Office @ 474-7389.
2. All educational programming will be developed for your needs.
3. Services are available for faculty, support staff and students.
4. There are no costs involved.

Recommendations:

As I reflect on the value of the 200 educational sessions that were given over the past three years these thoughts come to mind.

1. These sessions have made a significant contribution in raising awareness of sexual harassment and human rights issues on campus. This is reflected in a substantial increase in the number of people who contact our office asking for informal assistance as well as an increase in the number of calls from people asking for advice on how to address an issue before it becomes a complaint.

2. If we want to continue to move forward we need to go beyond raising awareness and concentrate more efforts on the more difficult systemic issues that still exist. These concerns center on issues like: fear of reporting, retaliation, conflict of values and critiquing existing climates and policies. I would recommend that:
   - the Diversity Education Coordinator be an academic appointment so more time could be devoted to putting these issues into a research framework where proper data collection and analysis could be conducted.
   - the Equity Services Office report either to the President's Office or an Advocacy Committee consisting of representation from the Academic, Administrative and Student Communities.
Vice-President (Administration)
Michael McAdam

Director - Staff Relations
Lloyd Schreyer

Manager - HR Services
Dan Bradshaw

Manager - Staff Benefits
Barb Hanchard

Functional Responsibilities

- Budget/Admin.
- Health and Safety
- EAP
- Staff Relations (Support Staff and Academic)

- HR Consultants
- Equity Services
- HRIS
- Staff Development
- Organizational Development

Lead Hand in:

- Budget preparation
- Strategic Planning
- Senior Management Group
- HRIS Steering Committee

- HRIS Re-Engineering Committee(s)
- FIPPA Committee

- Pension Committee
- Staff Benefits Committee
- HRIS Re-Engineering Committee(s)
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November 4, 1999

To: Beverly Sawicki, University Secretary
From: Dan Bradshaw, Manager, Human Resource Services
Subject: Equity Services Office Annual Report 1999

This will serve as a request to submit the "Equity Services Office Annual Report 1999" to Senate for the Senate Executive Meeting of November 17, 1999 and the Senate General Meeting of December 1, 1999.

A copy of the report dated November 1999 is enclosed.

It is our intent that the following representatives from the Equity Services Office attend the above-noted Senate meetings in order to comment on the report and answer questions, should questions arise:

   Mr. Dan Bradshaw, Manager, Human Resource Services
   Ms. Maggie Duncan, Equity Advisor
   Dr. Mary Galloway, Employment Equity Officer
   Ms. Jannine LeMere, Human Rights/Sexual Harassment Investigator

If you have any questions regarding this matter, please telephone me at 474-6634.

Enclosure
cc Ms. Maggie Duncan
    Dr. Mary Galloway
    Ms. Jannine LeMere
1. The number of Zoology options over Year III and IV in the Honours program have been increased from 15 to 21 but there is no longer a requirement that 15 credit hours of the options be at the 400 level.

2. The requirement of 15 credit hours of Zoology courses, of which 9 credit hours must be at the 400 level, and the list of 6 credit hours from specified Zoology courses has been deleted from the Major program and replaced by "an additional 21 credit hours from the remaining 300 or 400 level Zoology courses."
Department of Zoology

Course to be deleted:

022.467 Biology of Fishes (L) -6

Courses to be introduced:

022.4XX Biology of Fishes +3
Lectures survey organ systems, life history, and the population biology of fishes. The ecological analysis of fish communities is addressed through a field trip and a series of workshops on the analysis of field data. Evaluation is based upon work related to the field trip and examinations based upon the lecture material. Pre-requisite: 022.232 or 022.250F.

022.4XY Systematics and Biogeography of Fishes (L) +3
A study of the evolutionary history, interrelationships and distribution patterns of the fish-like vertebrates. Laboratories will cover the identification of the major groups of fish-like vertebrates. Pre-requisite 022.232 or 020.250F. Co-requisite: 022.400.

Courses to be modified:

022.254 Human Physiology II (3)
An examination of homeostatic regulation by the body’s major effector organ systems (cardiovascular, respiratory, digestive, renal, and immune). May not be held with 022.133 (or the former 022.123) or the former 022.245). Pre-requisite: Standing in 022.253 or 022.353 or consent of instructor.

022.254 Physiologie du corps humain II (3)
Une étude de la régulation homéostatique par les systèmes effecteurs du corps (cardiovasculaire, respiratoire, digestif rénal et immunitaire). Un étudiant ou une étudiante ne peut se faire créditer à la fois le 022.254 et le 022.133 (ou l’ancien 022.123) ou l’ancien 022.245. Préalable : avoir réussi le 022.253 ou le 022.353 ou le consentement du professeur.

022.350 Limnology (3) L
Lectures and laboratories providing an introduction to the physics, chemistry and biology of lakes. Pre-requisite: 022.237 (001.237 or 065.237).

NET CHANGE IN CREDIT HOURS: 0
Proposed Program:

STATISTICS - ACTUARIAL MATHEMATICS JOINT PROGRAM (005A)

The Department of Statistics and the Warren Centre for Actuarial Studies and Research offer a Joint Honours program for students wishing to deepen study in Statistics and Actuarial Mathematics.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOINT HONOURS</td>
<td>005.100, 136.169, or 136.150* and 136.170*, 136.130*, 074.101</td>
<td>005.200*, 010.202, 010.212, 010.221, 013.2HP (or 013.2HA and 013.2HB), 013.2DA*, Plus 9 approved credit hours</td>
<td>005.305, 005.347 and 005.348 (or 005.312 and 005.313), 005.550, 005.360, 010.313, (whichever not yet taken), 010.323, 010.333, 010.353, 010.424, (or 010.434)</td>
<td>005.349, 005.414, 005.452, 005.453, 010.414, 010.424 or 010.434, 027.215, 074.126, Plus 6 approved credit hours</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>Plus 9 credit hours electives</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

1. 013.131 may be taken in place of 136.130; 136.151, 136.152 or 136.53 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.
2. 005.101 may be taken in Year I or II in the program.
3. The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.
4. 005.200 may be taken in Year I or II.
5. 013.246 has been replaced by 136.2DA and moved to Year II due to timetabling problems. Statistics 005.305 has been moved to Year III. The footnotes have been renumbered accordingly.
6. 013.234 (or 013.239 and 013.249) have been replaced by 136.2HF (or 136.2HA and 136.2HB).
7. Economics 018.121 and 018.122 are added as substitutes for the full course 018.120 in the list of recommended electives.
8. 013.235 and 013.246 have been replaced by 136.2LA and 136.2DA respectively in Footnote 5.

The Changes are:

1. 013.246 has been replaced by 136.2DA and moved to Year II due to timetabling problems. Statistics 005.305 has been moved to Year III. The footnotes have been renumbered accordingly.
2. 013.234 (or 013.239 and 013.249) have been replaced by 136.2HF (or 136.2HA and 136.2HB).
3. Economics 018.121 and 018.122 are added as substitutes for the full course 018.120 in the list of recommended electives.
4. 013.235 and 013.246 have been replaced by 136.2LA and 136.2DA respectively in Footnote 5.
Proposed Program:

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS</td>
<td>005.100,</td>
<td>005.200,</td>
<td>005.305,</td>
<td>005.414, 005.452, 005.453</td>
</tr>
<tr>
<td>120 CREDIT</td>
<td>136.169 (or 136.150) and 136.170P, 136.130'</td>
<td>136.2HA and 136.2HB (or 136.2HF), 136.2DA, 136.120'</td>
<td>005.348 (or 005.312 and 005.317), 005.350, 005.360</td>
<td>013.332</td>
</tr>
<tr>
<td>HONOURS</td>
<td>074.101'</td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td>Plus 18 credit hours*</td>
<td></td>
</tr>
<tr>
<td>120 CREDIT</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
</tr>
<tr>
<td>FOUR YEAR</td>
<td>005.100,</td>
<td>005.200,</td>
<td>005.312,</td>
<td>005.452, 005.453</td>
</tr>
<tr>
<td>MAJOR*</td>
<td>136.169 (or 136.150) and 136.170P, 136.130'</td>
<td>136.2HA, 136.2HB, 074.101' 136.120'</td>
<td>005.313, 005.350, 005.360</td>
<td>005.360</td>
</tr>
<tr>
<td>120 CREDIT</td>
<td>Plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td>Plus 15 credit hours</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
</tr>
<tr>
<td>A &quot;W&quot; course</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
</tr>
<tr>
<td>HONOURS</td>
<td>005.100,</td>
<td>005.200,</td>
<td>005.312,</td>
<td>005.452, 005.453</td>
</tr>
<tr>
<td>DOUBLE</td>
<td>136.169 (or 136.150) and 136.170P, 136.130'</td>
<td>136.2HA, 136.2HB, 074.101' 136.120'</td>
<td>005.313, 005.350, 005.360</td>
<td>005.360</td>
</tr>
<tr>
<td>MINIMUM</td>
<td>Plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td>Plus 15 credit hours</td>
<td>120 CREDIT HOURS</td>
<td>120 CREDIT HOURS</td>
</tr>
<tr>
<td>120 CREDIT</td>
<td>Plus 12 credit hours</td>
<td>Plus 18 credit hours from 005.301, 005.317, 005.318, 005.338, 005.349, and 005.458, 005.459, 005.462, 005.469, 005.470</td>
<td>Plus 12 credit hours*</td>
<td></td>
</tr>
<tr>
<td>THREE YEAR</td>
<td>005.100,</td>
<td>005.200,</td>
<td>005.312,</td>
<td>005.452, 005.453</td>
</tr>
<tr>
<td>GENERAL</td>
<td>(For students in other faculties)</td>
<td>Plus 12 credit hours from 005.301, 005.312, 005.313, 005.317, 005.318, 005.338, 005.349, 005.350, 005.359, 005.360, 005.469</td>
<td>005.452, 005.453</td>
<td></td>
</tr>
<tr>
<td>MINOR</td>
<td>005.100</td>
<td>005.200,</td>
<td>005.312,</td>
<td>005.452, 005.453</td>
</tr>
</tbody>
</table>

*005.200, 074.101 and 136.120 may be taken either in Year I or II.

*136.131 may be taken in place of 136.130; 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.

*005.312 and 005.313, with an average grade of "B" and a minimum grade of "C" on each course, may be used in lieu of 005.347 and 005.348.

*Of the electives required in Years II, III and IV, 18 credit hours are to be selected from one department which represents a field of application such as: Actuarial Mathematics, Botany, Microbiology, Zoology, Economics, Psychology or Sociology. (Mathematics, Applied Mathematics and Computer Science are excluded from this list.) In consultation with the department, combinations of courses from a coherent area of studies may be selected.

*Of these 24 credit hours, 15 credit hours are to be taken from either Computer Science, Mathematics and Applied Mathematics, or from one of the following departments: Actuarial Mathematics, Botany, Microbiology, Zoology, Economics, Psychology or Sociology.

*005.350 and 005.360 have corequisites of 136.2HA and 136.2HB. Therefore students who wish to take 005.350 and 005.360 should consider taking 136.130, 136.150 and 136.170 in Year I or II, as they are prerequisite to 136.2HA and 136.2HB.

*The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

*IMPORTANT NOTE: 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 with a view to satisfying the prerequisites of the required courses.

(Letters in brackets indicate minimum prerequisite standing for further study.)
The Changes are:

1. Mathematics 013.234 (or both of 013.239 and 013.249) have been replaced by the new 136.2HF (or both of 136.2HA and 136.2HB) in Year II of the Honours program.

2. Mathematics 013.355 has been replaced by Mathematics 136.2DA and 006.325 in Year IV of the Major program and Year III and IV of the Honours program.

3. 013.464 has been deleted from the list of options in Year IV of the Honours Program.

4. The 12 credit hours of options in Year IV of the Honours program has been reduced to 9 credit hours to accommodate 006.325.

5. Physics 016.335 has been deleted so it has been removed from the list of courses available in the General and Minor Program.

6. A sentence has been added to the Honours and Major program charts to permit the substitution of Astronomy courses for Physics courses in these programs.

7. Footnote 9 has been added. Students who took Engineering 130.118 (Introduction to Electrical Circuits) as part of an Engineering program or a pre-Engineering program in University 1 will have covered the material in Physics 016.261 (Circuit Theory and Introductory Electronics).
Department of Microbiology

Service course to be modified:

060.122 Essentials of Microbiology (3)
A review of the essential principles of microbiology including immunity, with emphasis on microbial disease. This course is intended for students in the Faculty of Nursing. Not to be held with the former 060.121. NOTE: 060.122 is offered primarily for students in the Faculty of Nursing but may be taken by students in other health care or related programmes by students in other faculties intending to enter the Faculty of Nursing. Although this course may then be used as an elective in an Arts or Science programme, it may not be used to meet a programme requirement of an Honours, Major, General or Minor programme in the Biological Sciences.

NET CHANGE IN CREDIT HOURS: 0

Department of Physics and Astronomy

Course to be deleted:

016.335 Physical Electronics (L) -6

Courses to be modified:

016.090 Preparing for University Physics (0)
A review of elementary physics, emphasizing the laws of mechanics, for students considering enrolling in a first-year University physics course. Mathematical techniques used in solving physics problems and the relevance of physics to everyday life will be stressed. Although this course may be used as part of the pre-requisite requirements for first-year physics courses, students are encouraged to take Physics 40S whenever possible.

016.102 General Physics I (3) L
A non-calculus survey course in Physics covering topics in mechanics and thermodynamics, with illustrations drawn from the medical and biological sciences. This course, together with the sequel 016.103, is recommended for students seeking either a single, comprehensive course in Physics or entry into health science programmes. It may also be used for entry into the Honours Physics programme (B+ or better) or the Major Physics programme (B or better). Pre-requisites: Either Physics 40S, 016.090 (with a grade of "C"), or equivalent; and either Pre-Calculus Mathematics 40S, Applied Mathematics 40S (with a 70% or better), or equivalent. It is strongly recommended that students take Pre-Calculus Mathematics 40S. It is also strongly recommended that students attain a minimum of 70% as the average of their marks in Physics 40S and Pre-Calculus Mathematics 40S.

016.102F Physique générale I (3) L
Ce cours d'initiation à la physique ne requiert pas de calcul et traite de certains thèmes tirés de la mécanique et de la thermodynamique avec des exemples pris des sciences biologiques et médicales. Ce cours, de même que le 016.103, est particulièrement conseillé aux étudiants désireux d'avoir une vue d'ensemble de la physique ou qui ont l'intention de s'orienter vers des études médicales. Il peut aussi servir comme cours de base pour un programme de spécialisation en physique ("B+" ou mieux) ou de majeure en physique ("B" ou mieux). Préalables: un de Physique 40S ou 016.090 (avec une note d'au moins "C"), ou l'équivalent, et un de Mathématiques précalcul 40S, Mathématiques appliquées 40S (avec une note d'au moins 70%) ou l'équivalent. Il est fortement recommandé que l'étudiant ait suivi le cours de Mathématiques 40S et qu'il ait obtenu une
Service course to be modified:

016.360 Mechanics A (3)
Vector dynamics of particles and systems of particles. Not to be held with 016.265 (or the former 016.233). Pre-requisites: 016.102 (grade of "B") or 016.105 (grade of "C+") and 136.2GA (or the former 006.220), 136.2JA (or the former 006.202, 006.226, 006.235) and either 136.2HA (or the former 013.239) or 136.2HF (or the former 013.234), or consent of department.

NET CHANGE IN CREDIT HOURS: -12
Proposed Program:

MATHEMATICS - ACTUARIAL MATHEMATICS JOINT PROGRAM (013M)
The Department of Mathematics and the Warren Centre for Actuarial Studies and Research offer a Joint Honours program for students wishing in-depth study in both Mathematics and Actuarial Mathematics.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 CREDIT HOURS</td>
<td>and 136.170 (B)</td>
<td>005.360, 136.2SR, 136.2LA, 013.338, 013.340, 013.353, 013.372 013.345</td>
<td>Plus 9 credit hours of approved electives</td>
<td>In above chart, Years III and IV are part of an old program which is being revised; please see note 4.</td>
</tr>
<tr>
<td></td>
<td>136.221 (B)</td>
<td>136.2HF, 136.2LA</td>
<td>013.323</td>
<td></td>
</tr>
<tr>
<td></td>
<td>005.100, 005.200 (B)</td>
<td>In the above chart, University I and Year II are part of a revised program; please see note 4.</td>
<td>Plus 3 credit hours of approved electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plus 9 credit hours of electives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A &quot;W&quot; course must be taken in Year I or II</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

136.131 may be taken in place of 136.130; 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.

The courses required in this program will satisfy the University mathematics requirement. The University written English must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement. (Letters in brackets indicate minimum prerequisite standing for further study.)

013.373 may be taken in Year 3 or 4.

Important Notes: All the various Honours and Major mathematics programs are currently being revised. Students who are registered in University I or Year II in 2000/2001 are to follow the above listed program requirements up to the end of Year II only. A revised program for Years III and IV should be available in September 2000; please contact the Department of Mathematics for information. The above listed program requirements for Years III or IV pertain only to students who are registered in Years III or IV in 2000/2001. (Letters in brackets indicate minimum prerequisite standing for further study.)

Honours Requirements:

To enter the Honours program in Mathematics - Actuarial Mathematics a student must have a minimum grade of B' in 136.130 and either 136.170 or 136.169.

Recommended Electives:

010.424, 010.434, Accounting and Finance 009.110, 009.220, Computer Science 074.101, 074.126, Economics 018.120 (or 018.121 and 018.122), 018.245, Statistics 005.347, 005.349.

136.131 may be taken in place of 136.130; 136.171 or 136.173 may be taken in place of 136.170.

The Changes are:

1. Economics 018.121 and 018.122 are added as substitutes for the full course 018.120 in the list of recommended electives.

2. 013.234, 013.235 and 013.237 have been replaced by 136.2HF, 136.2LA, 136.2SR and 136.2JA in Year II.

3. Footnote 4 and the 2 sentences in the chart have been added to explain the transition in courses.
Applied Mathematics - Statistics Joint Honours Programme

Proposed Program:

### APPLIED MATHEMATICS - STATISTICS JOINT PROGRAM (006S)

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLIED MATHEMATICS JOINT HONOURS</td>
<td>005.100, 136.130, 136.150, and 136.170 (B)</td>
<td>005.200, 136.23R, 136.2LA, 136.2GA and 136.2HA (B) and 136.2HB (B) (or 136.2HF), 136.2HA</td>
<td>005.305, 005.347*, 005.348*, 005.350, 005.360, 005.320, 006.325, 013.332</td>
<td>005.414, 005.452, 005.453, Plus 3 credit hours from 005.458, 005.459, 005.462, 005.469, 005.470</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course of electives. Plus 9 credit hours of electives</td>
<td>In the above chart, University I and Year II are part of a revised program; please see note 8</td>
<td>Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA (the former 006.235)*. In the above chart, Years III and IV are part of an old program which is being revised, please see note 8.</td>
<td>Option List below</td>
</tr>
</tbody>
</table>

A "W" course must be taken in Year I or Year II.

30 Hours | 30 Hours | 30 Hours | 30 Hours

1. 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.131 may be taken in place of 136.130; 136.171 or 136.173 may be taken in place of 136.170.
2. 074.101 may be taken in Year II.
3. The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement of this Calendar.
4. 005.200 may be taken either in Year I or II.
5. 136.2HF is highly recommended.
6. 005.312 and 005.313, with an average grade of "B" and a minimum grade of "C" on each course, may be used in lieu of 005.347 and 005.348.
7. Important Note: The former 006.235 satisfies this requirement; 006.235 was offered for the last time during 1999/2000, and a replacement will be offered as a third year course beginning in 2001/2002.
8. Important Note: All the various Honours and Major mathematics programs are currently being revised. Students who are registered in University I or Year II in 2000/2001 are to follow the above listed program requirements up to the end of Year II only. A revised program for Years III or IV should be available in September 2000; please contact the Department of Mathematics for information. The above listed program requirements for Years III or IV pertain only to students who are registered in Years III or IV in 2000/2001.
9. (Letters in brackets indicate minimum prerequisite standing for further study.)
10. NOTE: By suitable choice of courses, students will be able to take, if they wish, a small group of courses dealing with applications of mathematics in an allied field such as actuarial mathematics, computer science, engineering, mathematical economics, physics; e.g., in Physics, 016.360 and 016.361.

Joint Honours in Applied Mathematics-Statistics
This program is intended for students who wish to attain an Honours standard of proficiency in the two subjects.

Prerequisite Information
Students are responsible for all prerequisites and corequisites of the courses required or selected in the program above.

Entry Requirements and Optional Courses
Students will normally take 005.200 in second year and enter Honours in Year 3, however a student may enter Year 2 Honours if 005.200 is successfully completed in first year.

To enter the Honours program students must have a "B" or better in 005.200 and either and average grade of "B" or better with a minimum grade of "C" in each of 136.151 and 136.171, or a minimum grade of "C" in each of 136.151* and 136.171*, or a minimum grade of "C" in 136.169.

Option List
136.2EA, 027.215, 016.360, 016.361, and all 300 or 400 level Applied Mathematics (006) courses not already specified in the program.

1. 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.
Three Year General
As prescribed with all other Faculty regulations in Section 3.2, students in this program must select 30 credit hours from two (2) Science departments. To satisfy this requirement in Mathematics, students must select a minimum of 12 credit hours of mathematics courses as prescribed in the above chart.

Mathematics
Honours Requirements
To enter the Honours program in Mathematics a student must have a minimum grade of "B" in 136.130 and either 136.170 or 136.169. In addition, students must have satisfied the Faculty requirements for entry to the Honours program.

The program for students who elect Honours in Mathematics is as follows: Year II Mathematics courses as indicated in the chart above and 9 credit hours from such fields as physics, chemistry, actuarial mathematics, computer science, statistics, philosophy, or economics. Other fields may be elected with the approval of the Department.

Year III Mathematics courses as indicated in the chart above and an additional six (6) credit hours from the subject fields above or a third year Honours Mathematics course not already elected. Students performing satisfactorily in Year II may obtain permission to take an additional course.

Year IV Mathematics courses as indicated and six (6) credit hours from the subject fields above or an Honours mathematics course not already elected. Students performing satisfactorily in Year III may obtain permission to take an additional course.

Electives normally allowed are:
Statistics: 005.100, 005.200, 005.318, 005.347, 005.348, 005.350, 005.360, 005.414, 005.452, 005.453, 005.458, 005.459, 005.462, 005.469.
Mechanical Engineering: 025.349.

Other courses may be elected with permission of the Department. Students are required to obtain the approval of the Department concerning their choice of electives.

A student may elect Honours in Mathematics and one other field, subject to the approval of both Departments. The Mathematics prescription for a Double Honours program is as indicated in the above table.

Honours programs must be approved each year by the Department.

Four Year Major Requirements
To enter the Four Year Major in Mathematics, a student must have a "C+" in either 136.169 or in two of 136.130, 136.150 and 136.170, at least one of which must be either 136.150 or 136.170, and have satisfied all Faculty requirements for entry to the program. It is recommended that students take the above 9 credit hours of 100 level Mathematics courses in their initial 30 credit hours, however, students should take at least 136.130 and 136.150.

It is recommended that 005.200 be completed in Year II.

It is suggested that among their electives, students might choose courses in which mathematics is extensively used, for example, courses in physics, chemistry and certain courses in economics. For more detailed advice on this point students should talk to a Faculty member in the Department.

Three Year General
As prescribed with all other Faculty regulations in Section 3.2, students in this program must select 30 credit hours from two (2) Science departments. To satisfy this requirement in Mathematics, students must select a minimum of 12 credit hours of mathematics courses as prescribed in the above chart.

See a Science Student Advisor or the Faculty Advisor in the Department for information regarding entry to or completion of any of the above programs.

*136.131 may be taken in place of 136.130; 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.171 or 136.173 may be taken in place of 136.170.
### Mathematics Faculty of Arts

#### FOUR YEAR (or 136.169)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>136.25R, 136.2LA, 136.2GA, 136.2HF, 136.2IA</td>
<td>In the above chart, University I and Year II are part of a revised program; please see note 8.</td>
</tr>
<tr>
<td>006.320, 006.325, 006.329, 006.336, 006.337, 006.347, 013.332, 016.109, 136.2EA</td>
<td>(unless already taken)</td>
</tr>
</tbody>
</table>

In the above chart, Years III and IV are part of an old program which is being revised; please see note 8.

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 005.200 and 12 credit hours from 013.374, 016.360 (if not used in lieu of 016.105), 016.361 and Applied Mathematics (006) courses.

#### Computer Sciences Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
</table>

In the above chart, Years III and IV are part of an old program which is being revised; please see note 8.

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 005.200 and 9 credit hours from 013.347, 013.349, 013.375 and 013.376

#### Political Science

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>136.120, 136.130, 136.150, 136.170</td>
<td>006.320, 006.325, 006.337, 006.347, 013.332, 136.2EA (unless already taken)</td>
</tr>
</tbody>
</table>

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 005.100 and 005.200; plus 6 credit hours of Applied Mathematics (006) courses; plus one of the following patterns:

- "Software": 074.219, 074.349, 074.449; or
- "Graphics": 074.310, 074.348, 074.371; or
- "Theoretical Computer Science": 074.208, 074.213, 074.317 or 074.453; or
- "Hardware": 074.222, 074.233, 074.337 or 074.343; or
- "Artificial Intelligence": 074.319, two of: 074.419, 074.420, 074.436

#### Management Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.120, 136.131, 136.150, 136.170</td>
<td>006.320, 006.325, 006.336, 006.337, 006.347, 013.332, 136.2EA</td>
</tr>
</tbody>
</table>

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 005.100 and 005.200, 074.101, plus a 3 credit hour course in Applied Mathematics (006), plus 018.253 and 018.373, and at least two of 018.245, 018.246, 018.247 and 018.248

#### Management Sciences Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
</table>

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 018.120 (or both 018.121 and 018.122), 005.100, 005.200, 074.101, plus 072.215, 072.340 and six (6) credit hours Management Sciences courses approved by the department.

#### Management Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.120, 136.130, 136.150, 136.170</td>
<td>005.100, 018.120 (or both 018.121 and 018.122), 005.200, 074.101, plus 072.215, 072.340 and six (6) credit hours Management Sciences courses approved by the department.</td>
</tr>
</tbody>
</table>

A "W" course must be taken in Year I or II

#### Mathematics with Statistics Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>136.120, 136.130, 136.150, 136.170, 005.100, 005.101</td>
<td>006.320, 006.325, 006.329, 006.336, 006.337, 006.347, 013.332, 136.2EA</td>
</tr>
</tbody>
</table>

Plus one three credit hour course in ordinary differential equations beyond the level of 136.21A (the former 006.235), 074.101, plus 6 credit hours of 300 or 400 level Applied Mathematics (006) courses, plus 6 credit hours of 300 or 400 level Statistics courses.

A "W" course must be taken in Year I or II
be held with the former 006.324. Pre-requisites: 136.2BA (or the former 006.260) and 136.2BB (or the former 006.237, 006.238, 006.244, or 006.261).

006.371 Applied Discrete Mathematics (3) L
Sets, groups, graphs, and boolean algebra. For Engineering students only. Not to be held with 074.212 and 074.213. Pre-requisites: 136.2BB (or the former 006.261, or 006.238).

NET CHANGE IN CREDIT HOURS: -12
013.373  Differential Equations I (3)
An introductory course on the theory and methods of solution of ordinary differential equations. Not to be held with the former 006.245. Pre-requisites: 136.2HF (or the former 013.234) and 136.2LA (or the former 013.235).

013.374  Differential Equations II (3)
A continuation of 013.373. Advanced topics in the theory of ordinary differential equations. Pre-requisite: 013.373 (or the former 006.245 or 006.236) plus 013.332 as co-requisite, or consent of instructor.

013.375  Modern Geometry (3)
Topics in modern euclidean geometry, affine and projective geometry, inversive geometry, etc. Pre-requisites: 136.2HF (or the former 013.234) and 136.2LA (or the former 013.235) or consent of instructor.

013.376  Set Theory (3)
Axiom systems, cardinal and ordinal numbers, models of set theory, the axiom of choice, the generalized continuum hypothesis, etc. Pre-requisite: 136.2SR (or the former 013.237) or consent of instructor.

013.452  Real Variables (6)
Measure and integration on the real line and on abstract spaces. Classical Banach spaces of functions, and basic functional analysis. Pre-requisites: 136.2LA (or the former 013.235), 013.338 and 013.340 or consent of instructor.

013.457  Partial Differential Equations (6)
Derivation of and techniques for solution of the three classical second order linear partial differential equations (with suitable initial or boundary conditions). Some consideration of other types of partial differential equations. Not to be held with 006.347. Pre-requisites: 136.2LA (or the former 013.235) and 013.340 or consent of instructor.

NET CHANGE IN CREDIT HOURS: 0

Service courses to be deleted:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>006.260</td>
<td>Mathematical Methods for Engineers I (L)</td>
<td>-4</td>
</tr>
<tr>
<td>006.261</td>
<td>Mathematical Methods for Engineers II (L)</td>
<td>-4</td>
</tr>
<tr>
<td>006.270</td>
<td>Introductory Numerical Methods for Engineers (L)</td>
<td>-4</td>
</tr>
<tr>
<td>013.228M</td>
<td>Number Systems and Geometry with Applications</td>
<td>-6</td>
</tr>
<tr>
<td>013.228FM</td>
<td>Les systèmes des nombres, la géométrie et les applications</td>
<td>-6</td>
</tr>
<tr>
<td>013.229M</td>
<td>Introduction to Algebraic Structures</td>
<td>-6</td>
</tr>
<tr>
<td>013.229FM</td>
<td>Introduction aux structures algébriques</td>
<td>-6</td>
</tr>
<tr>
<td>013.238M</td>
<td>Modern Concepts of Pure Mathematics</td>
<td>-6</td>
</tr>
<tr>
<td>013.238FM</td>
<td>Concepts modernes en mathématiques pures</td>
<td>-6</td>
</tr>
</tbody>
</table>

Service courses to be introduced:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.2AFM</td>
<td>Number Systems and Geometry with Applications</td>
<td>+6</td>
</tr>
</tbody>
</table>

An introductory course for prospective teachers of elementary school mathematics. Topics include development of number systems, geometry and elementary combinatorics. Not to be held with the former 013.228.
136.2HB (ou l'ancien 013.249) (ou 136.2HF (ou l'ancien 013.234)), et le 074.101 (ou l'ancien 074.120) ou 074.123, ou le consentement du professeur.

006.325 Applied Complex Analysis (3)
Concepts and techniques of complex variable theory in the context of applied mathematics. Not to be held with 006.343. Pre-requisites: 136.2HA (or the former 013.239) and 136.2HB (or the former 013.249) (or 136.2HF (or the former 013.234)) or consent of department.

006.328 Mathematical Problems in the Biological Sciences (3)
Circulatory system, flow of blood. Enzyme kinetics. Cell populations. Diffusion in biology. Some ecological systems. Pre-requisites: the former 006.245 or 006.236, and 136.2DA (or the former 013.246), and 136.2HB (or the former 013.249) or consent of department.

006.329 Mathematical Theory of Operational Research (3)
Linear and non-linear optimization techniques of operational research such as linear systems, mathematical programming, networks, convexity, duality, classical optimization and non-linear programming; some assignments will be done using a computer. Pre-requisites: 136.2DA (or the former 013.246) or 136.2LA (or the former 013.235) or consent of department.

006.332 Techniques of Applied Analysis (3)
Applied mathematical topics such as asymptotics, transform theory and special functions. Pre-requisites: the former 006.245 or 006.236, 006.325, or consent of department. Co-requisite: 013.332 or consent of department.

006.334 Mathematical Elements for Computational Graphics (3)
Two- and three-dimensional transformations, affine and non-affine, descriptions of plane and space curves, and surfaces; development of Frenet-Serret frame; Gaussian curvature and surface fairness. Stress is placed on the mathematical and conceptual framework. May not be held with the former 006.333. Pre-requisites: 136.2HA (or the former 013.239) (or 136.2BB (or the former 006.261) or 136.2HF (or the former 013.234)) and 136.2GA (or the former 006.220) (or 136.2BC (or the former 006.270) or 074.219) or consent of department.

006.336 Applied Linear Algebra (3)
Topics in linear algebra and matrix methods with emphasis on applications such as eigenvalues, special matrices, error analysis, and iterative methods. Not to be held with the former 006.441. Pre-requisites: 136.2GA (or the former 006.220) and 136.2DA (or the former 013.246) (or 136.2LA (or the former 013.235)).

006.337 Introduction to Mathematical Modelling (3)
An introduction to the principles and techniques involved in the design, development, solution, testing and revision of mathematical methods of "real-world" phenomena illustrated through the discussion of "case studies". Not to be held with the former 006.240 or 006.250. Pre-requisites: 136.2GA (or the former 006.220) and the former 006.245 or 006.236. Co-requisite: 005.100.

006.347 Partial Differential Equations I (3)
Fourier series and introductory Sturm-Liouville theory. Derivation of wave, diffusion and Laplace equations. Solution by separation of variables. Not to be held with 013.457 (or the former 006.327). Pre-requisites: the former 006.245 or 006.236, and 136.2HA (or the former 013.239) and 136.2HB (or the former 013.249) (or 136.2HF (or the former 013.234)) or consent of department.
136.2FAF  Introduction à la théorie des nombres  +3
Les sujets étudiés pourront inclure la divisibilité, la factorisation unique, les congruences linéaire
et quadratique, le théorème de Fermat. L'étudiant ne peut se faire créditer le 136.2FA à la fois avec
l'ancien 013.226. Préalable: une moyenne de "C" ou plus dans un cours d'introduction en sciences
mathématiques à l'exception de 136.100, 136.101, 136.102 (054.102) et 136.119 (ou un cours de
Mathématiques de l'ancien niveau 100 à l'exception de l'ancien 013.123), ou consentement du
département.

136.2FF  Modern Geometry  +6
A modern approach to geometry through the use of geometric transformations. Topics may include
isometries, symmetries, similarities, circular inversion and groups. Not to be held with the former
013.224. Pre-requisite: 136.169 (or the former 013.169); or 136.150 (or 136.151, 136.152 or
136.153 or the former 013.139, 006.125, or 010.115), and one of 136.130, 136.131, 136.170,
136.171, or 136.173 (or the former 013.146, 013.149, or 006.126).

136.2FFF  Géométrie moderne  +6
Une approche moderne à la géométrie à l'aide de transformations géométriques. Les
sujets étudiés pourront inclure les isométries, les symétries, les similarités, l'inversion circulaire et les groupes.
L'étudiant ne peut se faire créditer le 136.2FF à la fois avec l'ancien 013.224. Préalables : 136.169
(or l'ancien 013.169); ou le 136.150 (ou les 136.151, 136.152, 136.153 ou les anciens 013.139,
006.125, ou 010.115), et un de 136.130, 136.131, 136.170, 136.171, 136.173 (ou les anciens
013.146, 013.149, ou 006.126).

136.2GA  Numerical Mathematics I  +3
Elementary techniques of numerical solution of mathematical problems: solution of equations, finite
differences, interpolation, systems of equations, numerical differentiation and integration. Hand
calculators are required. Not to be held with the former 010.344, 006.331, or 006.220. Pre-
requisites: 136.130 or 136.131 (or the former 013.146), 136.169 or 136.170 or 136.171 or 136.173
(or the former 006.126 or 013.149 or 013.159), 074.101 or equivalent.

136.2GAF  Mathématiques numériques I  +3
Techniques élémentaires de solution numérique de problèmes mathématiques : solution d'equation,
differences finies, interpolation, systèmes d'équations, différentiation numérique, intégration
numérique. La calculatrice est requise. L'étudiant ne peut se faire créditer à la fois 136.2GA et les
anciens 010.344, 006.220 ou 006.331. Préalables : 136.130 ou 136.131 (ou l'ancien 013.146),
136.169 ou 136.170 ou 136.171 ou 136.173 (ou les anciens 006.126 ou 013.149 ou 013.159) et
074.101 ou son équivalent.

136.2HA  Calculus IIIA  +3
Calculus of several variables. Not to be held with 136.2HF, or the former 013.234, 006.222,
006.223, 006.227, 006.228, 006.243, or 013.239. Pre-requisites: 136.130 (or the former
013.146) and one of 136.169, 136.170, 136.171, or 136.173 (or the former 013.149, 013.159, or
006.126).

136.2HAF  Calcul IIIA  +3
Calcul des variables multiples. L'étudiant ne peut recevoir de crédits pour plus d'un des cours
Préalables : 136.130 (ou 136.131 ou l'ancien 013.146) et un de 136.169, 136.170, 136.171 ou
**Courses to be deleted:**

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<thead>
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<tr>
<td>006.220</td>
<td>Numerical Mathematics I</td>
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</tr>
<tr>
<td>006.220F</td>
<td>Mathématiques numériques I</td>
<td>-3</td>
</tr>
<tr>
<td>006.230</td>
<td>Applied Graph Theory</td>
<td>-3</td>
</tr>
<tr>
<td>006.235</td>
<td>Ordinary Differential Equations with Applications I</td>
<td>-3</td>
</tr>
<tr>
<td>006.235F</td>
<td>Équations différentielles ordinaires et leurs applications II</td>
<td>-3</td>
</tr>
<tr>
<td>006.241</td>
<td>Mathematical Modelling without Calculus</td>
<td>-3</td>
</tr>
<tr>
<td>006.245</td>
<td>Ordinary Differential Equations with Applications II</td>
<td>-3</td>
</tr>
<tr>
<td>013.224</td>
<td>Modern Geometry</td>
<td>-6</td>
</tr>
<tr>
<td>013.224F</td>
<td>Géométrie moderne</td>
<td>-6</td>
</tr>
<tr>
<td>013.226</td>
<td>Introduction to Number Theory</td>
<td>-3</td>
</tr>
<tr>
<td>013.226F</td>
<td>Introduction à la théorie des nombres</td>
<td>-3</td>
</tr>
<tr>
<td>013.234</td>
<td>Calculus</td>
<td>-6</td>
</tr>
<tr>
<td>013.235</td>
<td>Linear Algebra and Geometry</td>
<td>-6</td>
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<tr>
<td>013.237</td>
<td>Basic Concepts of Mathematical Analysis</td>
<td>-6</td>
</tr>
<tr>
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<td>Calculus IIIA</td>
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<td>Calcul IIIA</td>
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<td>013.246F</td>
<td>Algèbre linéaire II</td>
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<td>013.247</td>
<td>Combinatorial Mathematics</td>
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<tr>
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<td>Mathématiques combinatoires</td>
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<tr>
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**Courses to be introduced:**

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<tbody>
<tr>
<td>136.119F</td>
<td>Sujets choisis en mathématiques</td>
<td>+6</td>
</tr>
</tbody>
</table>

This course offers an introductory overview of modern mathematics. The topics covered are drawn from number systems, geometry, and combinatorics. This course is terminal and serves as a prerequisite for no other course in the Mathematics Department. It cannot be included in any special or general major or minor in the Mathematical Sciences. A student cannot register for this course if they have already received credits for one of the following courses or if they are already enrolled: 136.100, 136.120, 136.130, 136.131, 136.150, 136.151, 136.152, 136.153, 136.168, 136.169, and the ancients 006.120, 006.121, 006.125, 006.144, 006.147, 010.115, 013.128, 013.139, 013.146, 013.159.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.2AB</td>
<td>Mathematical Modelling without Calculus</td>
<td>+3</td>
</tr>
</tbody>
</table>

This course shows how relatively elementary mathematics may be used in various disciplines by means of "case studies" where practical problems in science, social science, and other fields are examined. Stress will be laid on "discrete" models requiring only elementary matrix algebra. May not be used as part of a Major or Honours programme in the Mathematical Sciences. Not to be held with the former 006.240 or 006.241. Pre-requisite: 136.130 or 136.131 (or the former 013.146).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.2SR</td>
<td>Sets and Real Numbers</td>
<td>+3</td>
</tr>
</tbody>
</table>

The language of mathematics: logic, methods of proof, elementary set theory. Foundations of calculus: the real numbers, continuity. Not to be held with the former 013.237. Pre-requisites: a
The Changes are:

1. 136.151 and 136.171 have been added as the recommended Mathematics courses in University 1 for the Geophysics Honours and Major programs and footnotes 1 and 10 (in the text) have been changed accordingly.

2. Mathematics 136.130 has been deleted as an entry requirement for the Geophysics Honours and Major programs. If the student chooses to do the non-Engineering Mathematics courses, they would need to take 136.130 for prerequisite purposes, as noted in footnote 3.

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4. A cooperative option has been added. Students will be required to complete 3 work terms in the Summer Sessions immediately following Year II, Year III and Year IV. Unlike students in the Computer Science Cooperative option, they can not timetable work terms during the Regular Session because some of the required courses are offered only in the Regular academic session. Students would graduate in October after their last work term.

**Department of Geological Sciences**

Courses to be modified:

007.432  **Physics of the Earth-Seismology and Heat Flow (3)**
Seismology and the structure, physical properties and equations of state of the Earth's interior; thermal constitution and the history of the Earth. *Offered in 2000-2001 and in alternate years thereafter.* Pre-requisite: 007.206, and 016.237.

007.425  **Theory and Application of Geophysical Inversion Methods (3)**
Introduction to generalized and linear/non-linear inversion theory. Inversion techniques for the potential field, electrical and seismic data will be discussed. Application to global problems will also be discussed. *Offered in 1999-2000 and in alternate years thereafter.* Pre-requisites: 007.206 and 136.2BA or 136.130 or 136.131.

007.374  **Exploration Seismology (3)**
Collection of seismic data (land and sea); simple elastic wave theory; geometry of refraction and reflection seismology; rock velocity determination; seismic noise and signal; data corrections; data enhancement techniques; representation of data; survey procedures. *Offered in 2000-2001 and in alternate years thereafter.* Pre-requisites: 007.206, and one of 136.150, 136.151, 136.152, 136.153 or 136.169.

007.481  **Geophysical Data Analysis (3)**

007.474  **Geophysics Field Course (6)**
Three weeks of making geophysical surveys. Starts immediately following third year examinations. Maps and reports to be submitted at the end of the three week period. Students are responsible for costs of room and board during the field course. *Offered in 1999 Summer Session and in alternate years thereafter.* Not to be held with 007.426. Pre-requisite: 007.206.

007.433  **Physics of the Earth-Geomagnetism and Gravity (3)**
Geomagnetism and geoelectricity; paleomagnetism; figure, rotation and gravity of the Earth. *Offered in 2000-2001 and in alternate years thereafter.* Pre-requisite: 007.206 and 016.237.

**NET CHANGE IN CREDIT HOURS:** 0
Department of Computer Science

Course to be deleted:

074.122  Computers and the Modern World -6

Courses to be placed into Not Currently Offered:

074.226  Applied Computer Concepts (3) L
074.227  Introduction to Object Orientation (3)

NET CHANGE IN CREDIT HOURS: -6

Service course to be deleted:

074.100  Information Technology for Management (L) -3

NET CHANGE IN CREDIT HOURS: -3

The B.Sc. Major performance requirements are being amended to permit students to continue in the program if they receive less than a 2.00 sessional grade point average in the Summer Session as long as they maintain a 2.00 on all courses.

Current Major Requirements:

To continue in the Major program a student must have a minimum sessional Grade Point Average of 2.00 (C). To graduate with a Major degree, a student must present a minimum grade of “C” in each of 074.206, 074.208, 074.213, 074.222, 074.223, 074.343 and in each of the 27 credit hours of 300 and 400 level Computer Science courses that apply to the Computer Science component of their degree program.

Addition:

Students who achieve less than a 2.00 (C) sessional Grade Point Average in summer session will be allowed to continue in the Major program if they maintain a 2.00 (C) cumulative Grade Point Average.
# Department of Chemistry

## Proposed Program:

### CHEMISTRY (002)

**Head:** H. Duckworth  
**General Office:** 350 Parker Building  
**Telephone:** (204) 474-9321

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS</td>
<td>002.130 (B), 002.131 (B)</td>
<td>At least 12 credit hours from: 002.221, 002.222, 002.228, 002.229, 002.236, 002.237 (060.237), 002.238, 002.247, 002.236, 002.237 (060.237), 002.238, 002.247.</td>
<td>At least 18 credit hours from: any of 002.221, 002.222, 002.228, 002.229, 002.236, 002.237 (060.237), 002.238, 002.247, not yet taken, and 002.236, 002.237, 002.238, 002.239, 002.239, 002.239, 002.245, 002.457, 002.463, 002.469, 002.469, 002.469, 002.469, 002.469, 002.469.</td>
<td>002.460 and 002.461 Plus sufficient credit hours from Chemistry courses not yet taken to total a minimum of 60 credit hours Plus sufficient electives to total a minimum of 33 credit hours</td>
</tr>
<tr>
<td>12 CREDIT HOURS</td>
<td>016.105 (C) and 016.107 (C), or 016.102 (C+) and 016.103 (C+), 136.150 (C), plus one of 136.120, 136.130, 136.170, plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course Plus 6 credit hours of electives</td>
<td>Plus 12 credit hours of electives which may include 6 credit hours of Chemistry.</td>
<td></td>
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</tr>
<tr>
<td>FOUR YEAR MAJOR</td>
<td>002.130 (C+), 002.131 (C+), 016.105 and 016.107, or 016.102 and 016.103, 136.150, plus one of 136.120, 136.130, 136.170, plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course Plus 6 credit hours of electives</td>
<td>At least 12 credit hours from: 002.221, 002.222, 002.228, 002.229, 002.236, 002.237 (060.237), 002.238, 002.247, 002.236, 002.237 (060.237), 002.238, 002.247.</td>
<td>At least 18 credit hours from: any of 002.221, 002.222, 002.228, 002.229, 002.236, 002.237 (060.237), 002.238, 002.247, not yet taken, and 002.236, 002.237, 002.238, 002.239, 002.239, 002.239, 002.245, 002.457, 002.463, 002.469, 002.469, 002.469, 002.469, 002.469, 002.469.</td>
<td>002.460 Sufficient credit hours from Chemistry courses not yet taken to total a minimum of 57 credit hours Plus sufficient electives to total a minimum of 30 credit hours</td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>016.105 and 016.107, or 016.102 and 016.103, 136.150, plus one of 136.120, 136.130, 136.170, plus 6 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course Plus 6 credit hours of electives</td>
<td></td>
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<tr>
<td>MINOR</td>
<td>002.130 (C) and 002.131 (C)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(For students in other faculties)</td>
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<tr>
<td>THREE YEAR GENERAL</td>
<td></td>
<td>A minimum of 12 credit hours from: 002.221, 002.222, 002.229, 002.236, 002.237 (060.237), 002.238, 002.247.</td>
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<tr>
<td></td>
<td></td>
<td>Normally 002.221 and 002.222, plus an additional 6 credit hours</td>
<td></td>
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</tr>
<tr>
<td>JOINT MICROBIOLOGY- CHEMISTRY HONOURS AND BIOCHEMISTRY</td>
<td>See Section 4.11 Microbiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOUR YEAR MAJOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOINT MICROBIOLOGY- CHEMISTRY HONOURS IN BIOTECHNOLOGY</td>
<td>See Section 4.11 Microbiology</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

1. Certain courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

**IMPORTANT NOTE:** 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 with a view to satisfying the prerequisites of the required courses.

(Letters in brackets indicate minimum prerequisite standing for further study.)
# Actuarial Mathematics Honours Programme

## Proposed Program:

### ACTUARIAL MATHEMATICS (010)

Warren Centre for Actuarial Studies and Research  
Faculty of Management  
Director: M. Byrne  
General Office: 268 Drake Centre  
Telephone: (204) 474-7426

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS</td>
<td>136.169 (B), (or 136.150' and 136.170')</td>
<td>010.202, 010.212, 010.221, 005.200', 010.313, 010.323, 010.414, 010.415, whichever of 010.424 or 010.434, 010.434 not yet taken</td>
<td>010.424 or 010.434</td>
<td>005.347' or 005.312', 005.349', 013.246'</td>
</tr>
<tr>
<td>ACTUARIAL</td>
<td>136.130 (B), 136.2HF (or 136.2HA and 005.305, 005.360, 006.325)</td>
<td>027.215'</td>
<td>005.305, 005.350, 005.347', 013.246'</td>
<td></td>
</tr>
<tr>
<td>120 CREDIT HOURS</td>
<td>136.130, 136.131</td>
<td>136.2HB, 005.360, 006.325</td>
<td></td>
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</tr>
<tr>
<td>Plus 6 credit hours from the Faculty of Arts, which should include the &quot;W&quot; course</td>
<td></td>
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</tr>
<tr>
<td>A &quot;W&quot; course must be taken in Year I or II</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 Hours</td>
<td>30 Hours</td>
<td>30 Hours</td>
<td>30 Hours</td>
<td></td>
</tr>
</tbody>
</table>

### JOINT MATHEMATICS-ACTUARIAL MATHEMATICS HONOURS

See Section 4.10 Mathematics

### JOINT STATISTICS-ACTUARIAL MATHEMATICS HONOURS

See Section 4.13 Statistics

1. 136.151, 136.152 or 136.153 may be taken in place of 136.150; 136.131 may be taken in place of 136.130; 136.171 or 173.173 may be taken in place of 136.170.  
2. 005.347 or 005.312 and (or) 005.349 may be taken in Year III or IV.  
3. The courses required in this program will satisfy the University mathematics requirement. The University written English requirement must be met through successful completion of a suitable elective course within the first 60 credit hours of this program. See Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics Requirement.

The Faculty of Science offers an interdisciplinary program leading to a B.Sc. (Honours) in Actuarial Mathematics. Courses from the Faculty of Management are included in this program.

To enter either of these options, a student must have 136.150' and 136.170' or 136.169 and 136.130' with a grade of at least "B" in 136.170' or 136.169 and 136.130' and have satisfied the Faculty of Science requirements for entry to the Honours program. Courses 074.101 and 018.120 are strongly recommended in Year I.

The Warren Centre for Actuarial Studies and Research and the Department of Statistics offer a Joint Honours program (see Section 4.13). Also, the Warren Centre for Actuarial Studies and Research and the Department of Mathematics offer a Joint Honours program (see Section 4.10). The electives in Year III and Year IV of the Actuarial Mathematics Option are to be chosen from Actuarial Mathematics, approved Business Administration courses, Applied Mathematics (300 or 400 level), Computer Science, Economics, Mathematics (136.258 and 300 or 400 level), Statistics (005.348 or 400 level). Other electives may be selected through consultation with the Program Head.

The Honours program must be approved each year by the Program Head. Double Honours programs can usually be arranged, combining Actuarial Mathematics with Mathematics or Economics.

The changes are:

1. 013.234 (or 013.239 and 013.249) has been deleted and replaced by 136.2HF (or 136.2HA and 136.2HB).
2. 013.237 has been deleted from the list of suggested electives in Year III and IV and replaced by 136.2SR.
3. Economics 018.121 and 018.122 have been recommended as alternative electives to Economic 018.120.

---

The changes are:

1. 013.234 (or 013.239 and 013.249) has been deleted and replaced by 136.2HF (or 136.2HA and 136.2HB).
2. 013.237 has been deleted from the list of suggested electives in Year III and IV and replaced by 136.2SR.
3. Economics 018.121 and 018.122 have been recommended as alternative electives to Economic 018.120.  
---

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Co-operative Nursing Education Experience

It is recommended that the Co-operative Nursing Education Experience be approved.

Courses to be introduced:

049.2XX  Co-operative Nursing Education Experience  0
An optional experience which enables nursing students to work in a health care agency, enhance acquired knowledge and skills, and receive compensation for their services. Full-time experience available from May-August. Pass/Fail grade. Pre-requisite: completion of second year nursing courses.

049.3XX  Co-operative Nursing Education Experience  0
An optional experience which enables nursing students to work in a health care agency, enhance acquired knowledge and skills, and receive compensation for their services. Part-time experience available from September-April. Pass/Fail grade. Pre-requisite: completion of second year nursing courses and registration in third year of the programme.

049.3XY  Co-operative Nursing Education Experience  0
An optional experience which enables nursing students to work in a health care agency, enhance acquired knowledge and skills, and receive compensation for their services. Full-time experience available from May-August. Pass/Fail grade. Pre-requisite: completion of third year nursing courses.

049.4XX  Co-operative Nursing Education Experience  0
An optional experience which enables nursing students to work in a health care agency, enhance acquired knowledge and skills, and receive compensation for their services. Part-time experience available from September-April. Pass/Fail grade. Pre-requisite: completion of third year nursing courses and registration in fourth year of the programme.

NET CHANGE IN CREDIT HOURS:  0

10. Faculty of Pharmacy

Course to be deleted:

046.344  Pharmacy Administration  -3

Course to be introduced:

046.4XX  Pharmacy Administration (3-0-0)  +3
An introduction to administrative and behavioural sciences as they relate to planning, organization and operation of pharmacy practice, and to the control of human and financial resources.

Course to be modified:

046.118  Fundamentals of Pharmaceutical Chemistry (3-4-0)  5
A multi-faceted course using classroom and integrated skills laboratory formats to introduce first year pharmacy students to (1) basic concepts in the practice of the profession and (2) pharmaceutical chemistry. These two complementary sections will provide a foundation of knowledge and skills in communication, problem-solving, critical thinking, information technology and analytical practice, especially as they relate to practice and inorganic pharmaceutical chemistry.
5. **Faculty of Law**

Courses to be introduced:

045.3AA  *Employment Law (3-0:0-0) or (0-0:3-0)*  +3  
A detailed study of employment law including employment principles, constructive and wrongful dismissal, just cause, human rights and remedies.

045.3AB  *Securities Law (2-0:0-0) or (0-0:2-0)*  +2  
A study of the basic concepts and application of the securities regulatory system in Canada.

**NET CHANGE IN CREDIT HOURS:**  +5

6. **Faculty of Management**

**Revisions to International Business Major**

It is recommended that the International Business major in the Bachelor of Commerce (Honours) programme be changed from 027.220; one of 009.345 or 118.330; plus two of 009.306 (if an approved international topic), 009.345 (if not already chosen), 0009.346, 027.302 (if an approved international topic), 027.412, 027.452, 118.324 (if an approved international topic), or 118.330 (if not already chosen) to 027.220, 009.345, 027.452, and 118.330.

**Other Curriculum and Regulation Changes**

**Economics Requirement**

It is recommended that the admission requirement for Economics for the Bachelor of Commerce (Honours) degree programme be amended to include 018.120 (6) *Principles of Economics* or 018.121 (3) *Introduction to Canadian Economics Issues and Principles* plus 018.122 (3) *Introduction to Global and Environmental Economics*.

**Ethics Requirement**

It is recommended that 020.245 (3) *Religious Ethics* be added to the list of courses that satisfy the Ethics requirement in the Bachelor of Commerce (Honours) degree programme.

**Grade Point Average Calculation**

It is recommended that the cumulative grade point average for the Bachelor of Commerce (Honours) degree be based on the entire 126 credit hours required in the degree programme, and that this change be achieved by transferring all applicable Qualifying courses into the programme.

**Repeats/Substitutions Limit**

It is recommended that the Repeat/Substitution limit in the Bachelor of Commerce (Honours) programme be increased from 6 credit hours to 12 credit hours with a maximum of 6 credit hours per course.
<table>
<thead>
<tr>
<th>EXISTING #</th>
<th>PROPOSED #</th>
<th>COURSE TITLE &amp; CREDIT HOURS</th>
<th>COURSE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>063.165</td>
<td>132.171</td>
<td>Literature for Adolescents</td>
<td>A survey of the literature available for adolescents. The course includes reading and discussion of the literature, and consideration of techniques for encouraging extensive reading. <em>Students may not hold credit for 132.171 and the former 063.204.</em></td>
</tr>
<tr>
<td>EXISTING #</td>
<td>Proposed #</td>
<td>COURSE TITLE &amp; CREDIT HOURS</td>
<td>COURSE DESCRIPTION</td>
</tr>
<tr>
<td>------------</td>
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<td>-----------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>081.139</td>
<td>132.232</td>
<td>Teaching Physics in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of physics at the senior years level. <strong>Prerequisite:</strong> 132.127.</td>
</tr>
<tr>
<td>081.140</td>
<td>132.233</td>
<td>Teaching Computer Science in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of computer science at the senior years level. <strong>Prerequisite:</strong> 132.127.</td>
</tr>
<tr>
<td>081.141</td>
<td>132.127</td>
<td>Teaching Senior Years Science (3)</td>
<td>General principles of science education, conceptual development, cognitive and learning theories, scientific literacy, the nature of science, contextual teaching, and the science-technology-society connection are presented and discussed. Emphasis will be placed on using conceptual development models to help science teachers present concepts and topics.</td>
</tr>
<tr>
<td>081.150</td>
<td>132.175</td>
<td>Basic Experiences in Movement and Dance Education (3)</td>
<td>A study of teaching movements/dance education in early (K-4) and middle years (5-8) schools. For both classroom teachers and physical education specialists, the course covers all traditional areas of movement instruction as well as movements' role across the curriculum. <strong>Students may not hold credit for 132.175 and the former 081.212 and 081.213.</strong></td>
</tr>
<tr>
<td>081.151</td>
<td>132.176</td>
<td>Historical Development of Physical Science Up to the 20th Century (3)</td>
<td>The major ideas and discoveries in science of the Ananas and the Greeks, the scientific revolution of the sixteenth and seventeenth centuries, and the 'modern' period of science, up to the end of the nineteenth century will be explored with an emphasis on science education and scientific literacy. <strong>Students may not hold credit for 132.176 and the former 081.203.</strong></td>
</tr>
<tr>
<td>081.152</td>
<td>132.177</td>
<td>Historical Development of Physical Science in the 20th Century (3)</td>
<td>An examination of Mendeleev's periodic table of the elements, the discovery of s-rays, radioactivity and the electron, early quantum theory, Einstein's Theory of Relativity, the Bohr-Rutherford atom, and wave-particle duality. Case histories will be emphasized and the implications for science education and scientific literacy explored. <strong>Students may not hold credit for 132.177 and the former 081.203.</strong> <strong>Prerequisite:</strong> 132.176.</td>
</tr>
<tr>
<td>081.153</td>
<td>132.178</td>
<td>Integration of Technological Literacy Across the K-12 Curriculum (3)</td>
<td>Training teachers to analyze subject matter content, to identify potential to teach about technological principles within the content area, and to develop specific teaching and learning interventions to infuse technological literacy across content. <strong>Students may not hold credit for both 132.178 and the former 081.153.</strong></td>
</tr>
<tr>
<td>081.154</td>
<td>132.179</td>
<td>Recent Developments in Curriculum: Mathematics and Natural Sciences (3)</td>
<td>The study of selected topics in curriculum and instruction in mathematics and natural sciences.</td>
</tr>
<tr>
<td>081.155</td>
<td>132.180</td>
<td>Recent Developments in Learning and Teaching Senior Years Mathematics (3)</td>
<td>The study of selected topics in Mathematics in senior years.</td>
</tr>
<tr>
<td>EXISTING #</td>
<td>POSED #</td>
<td>COURSE TITLE &amp; CREDIT HOURS</td>
<td>COURSE DESCRIPTION</td>
</tr>
<tr>
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<tr>
<td>063.225</td>
<td>132.207</td>
<td>Early Years Curriculum and Instruction in Children’s Literature (1)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.226</td>
<td>132.208</td>
<td>Early Years Multi-Language Development (1)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.227</td>
<td>132.200</td>
<td>Early Years Philosophy and Practice II (1)</td>
<td>An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).</td>
</tr>
<tr>
<td>063.230</td>
<td>132.210</td>
<td>Teaching Language Arts in the Middle Years (3)</td>
<td>A study of curriculum, instructional approaches, and techniques relevant to language and literacy at the Middle Years level, with emphasis on writing instruction, the teaching of literature, and writing across the curriculum.</td>
</tr>
<tr>
<td>063.231</td>
<td>132.211</td>
<td>Teaching Social Studies in the Middle Years (3)</td>
<td>A study of curriculum and instruction in Middle Years Social Studies Education, with particular emphasis on its theories, developments, instruction approaches, evaluation, and contemporary issues.</td>
</tr>
<tr>
<td>063.232</td>
<td>132.212</td>
<td>Teaching Art in the Middle Years (2)</td>
<td>An overview of art processes and teaching strategies appropriate for Middle Years students, with an emphasis on general visual awareness, art appreciation and art production.</td>
</tr>
<tr>
<td>063.240</td>
<td>132.250</td>
<td>Themes in Senior Years Education (3)</td>
<td>Examination of selected themes or issues relevant to senior years education, and the development of the beginning teacher's personal professional identity. Course activities will be coordinated with in-school experiences and will vary from year to year.</td>
</tr>
<tr>
<td>063.241</td>
<td>132.251</td>
<td>Language and Literacy Across the Curriculum (3)</td>
<td>An introduction to language as a medium of teaching and learning and how teachers of all content areas can apply language to enhance students' understanding of subject area content.</td>
</tr>
<tr>
<td>063.290</td>
<td>132.296</td>
<td>Early Years School Experience II (6)</td>
<td>A continuation of practical teaching experience in Early Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Early Years level.</td>
</tr>
<tr>
<td>063.291</td>
<td>132.297</td>
<td>Middle Years School Experience II (9)</td>
<td>A continuation of practical teaching experience in Middle Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Middle Years level.</td>
</tr>
<tr>
<td>063.292</td>
<td>132.298</td>
<td>Senior Years School Experience II (6)</td>
<td>A continuation of practical teaching experience under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Senior Years level.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title &amp; Credit Hours</td>
<td>Course Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
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<td></td>
</tr>
<tr>
<td>063.133</td>
<td>Teaching a Second Language in Senior Years (3)</td>
<td>Study of curriculum and instructional approaches relevant to teaching a heritage language, an international language, an aboriginal language, or English as a second language.</td>
<td></td>
</tr>
<tr>
<td>063.134</td>
<td>Teaching History in Senior Years (3)</td>
<td>A study of curriculum, instructional approaches relevant to the teaching of History at the Senior Years level. <strong>Prerequisite:</strong> 132.123.</td>
<td></td>
</tr>
<tr>
<td>063.135</td>
<td>Teaching Music in Senior Years (3)</td>
<td>A study of curriculum, instructional approaches and techniques relevant to the teaching of music at the senior level. <strong>Prerequisite:</strong> 132.120.</td>
<td></td>
</tr>
<tr>
<td>063.136</td>
<td>Teaching Drama and Theatre in Senior Years (3)</td>
<td>A study of curriculum and instructional approaches relevant to the teaching of drama and theatre at the senior years level. <strong>Prerequisite:</strong> 132.120.</td>
<td></td>
</tr>
<tr>
<td>063.140</td>
<td>Education in the Senior Years (3)</td>
<td>An examination of the assumptions about and goals of Senior Years education, the role of the Senior Years teacher, and the Senior Years curriculum in the schools.</td>
<td></td>
</tr>
<tr>
<td>063.141</td>
<td>Principles and Processes of Teaching (3)</td>
<td>This foundational course is required for all Senior Years students. In it, students will develop richer orientations to the teaching processes of organizing and leading learning in senior years classrooms. <strong>Students may not hold credit for 132.151 and the former 081.317.</strong></td>
<td></td>
</tr>
<tr>
<td>063.150</td>
<td>Teaching General Music (3)</td>
<td>A study of teaching music in early and middle years schools. For both classroom teachers and music specialists, the course covers all traditional areas of music instruction as well as music's role across the curriculum.</td>
<td></td>
</tr>
<tr>
<td>063.152</td>
<td>Content-Based Second Language Instruction (3)</td>
<td>Principles underlying modern approaches to teaching second language students in mainstream classrooms, and practical methods and procedures for integrating language and content instruction in a variety of subject areas.</td>
<td></td>
</tr>
<tr>
<td>063.153</td>
<td>Principles and Procedures of Second Language Teaching (3)</td>
<td>Examination of principles and demonstration of procedures for developing basic second language knowledge and skills in various contexts, e.g., ESL, EFL, AL, HL, IL.</td>
<td></td>
</tr>
<tr>
<td>063.154</td>
<td>Practicum in Second Language Teaching (3)</td>
<td>Practical second language teaching experiences, including: observing recorded and live teaching, planning lessons and units, micro and live teaching, and reflective assessment. <strong>Prerequisite or corequisite:</strong> 132.162.</td>
<td></td>
</tr>
<tr>
<td>063.155</td>
<td>Teaching ESL Vocabulary and Pronunciation (3)</td>
<td>Systematic and principled procedures for teaching English vocabulary, and for teaching comprehensible and acceptable English pronunciation (vowels, diphthongs, semi-vowels, consonants, stress, rhythm, and intonation).</td>
<td></td>
</tr>
<tr>
<td>063.156</td>
<td>Teaching ESL Grammar (3)</td>
<td>Examination of English sentence and discourse grammar, and demonstration of procedures of teaching grammar in communicative and academic contexts.</td>
<td></td>
</tr>
<tr>
<td>063.157</td>
<td>Computers in Second Language Teaching (3)</td>
<td>Concepts and methodology in Computer Assisted Language Learning (CALL), with emphasis on using the Internet.</td>
<td></td>
</tr>
</tbody>
</table>
132.2XX  Teaching English Language Arts in Senior Years II  +3
The course will extend further the groundwork undertaken in the previous introductory course into
the understanding and application of the principles and practices of teaching English language arts
at the Senior level.  Pre-requisite: 132.121.

NET CHANGE IN CREDIT HOURS:  0
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>144.264</td>
<td>Le discours amoureux dans la littérature française (3)</td>
</tr>
<tr>
<td>144.265</td>
<td>La nature dans la littérature française (3)</td>
</tr>
<tr>
<td>144.266</td>
<td>La fantaisie dans la littérature française (3)</td>
</tr>
<tr>
<td>144.267</td>
<td>Civilisation française (3)</td>
</tr>
<tr>
<td>144.283</td>
<td>L'individu et le pays (3)</td>
</tr>
<tr>
<td>144.284</td>
<td>La quête du bonheur (3)</td>
</tr>
<tr>
<td>144.285</td>
<td>Le folklore et la littérature orale (3)</td>
</tr>
<tr>
<td>144.286</td>
<td>L'influence de la littérature orale. (3)</td>
</tr>
<tr>
<td>144.287</td>
<td>Civilisation canadienne-française (3)</td>
</tr>
<tr>
<td>144.291</td>
<td>Procédés d'écriture (3) Prerequisite: 144.109 et un cours choisi parmi les suivants : 144.102, 144.107 ou 144.111. Nota bene : le 144.111 est fortement recommandé.</td>
</tr>
</tbody>
</table>
The FCP applies to employers who receive contracts from the Government of Canada and who have a workforce of 100 employees or more. The University of Manitoba currently holds federal government research contracts amounting to $1.26 million dollars.

In order to ensure employers are implementing employment equity programs satisfactorily, Human Resources Development Canada (HRDC) audits employers' programs. For FCP participants, it audits an employer's program every three or four years.

HRDC completed its review of the University of Manitoba's progress in achieving employment equity in March 1999. The review was based on:

i) The University's Contractor's Equity Achievement Report, which the University submitted in April 1998.

ii) Additional material requested by HRDC on the University's plan to improve accessibility of its buildings. The EEO prepared a document with the assistance of the Director of Physical Plant and the Associate Vice-President (Ancillary Resources) and submitted it to the FCP in November 1998.

iii) Information gathered by HRDC personnel during their visit to the University of Manitoba in September 1998. During a day of consultations, the review officers met with the Employment Equity Officer, Equity Services staff as well as the President, the Vice-President (Administration), the Acting-Director of Human Resources, Members of UMFA Executive, the President of AESES, and the Chair of the President's Advisory Council on Women.

2.2. THE UNIVERSITY CONTINUES IN COMPLIANCE

HRDC found that the University of Manitoba continues to meet the requirements of the Federal Contractors Program. This is the third successful federal government review of the University's employment equity program; earlier reviews were completed in 1990 and 1993.

In its assessment, HRDC recognized not only the University's efforts to meet its employment equity commitments but also its progress toward achieving employment equity during a time when the University faced a harsh economic climate. HRDC commented specially on several University initiatives as successful approaches to
SEXUAL HARASSMENT
POSITION OF COMPLAINANT/RESPONDENT

Complainants
1 Unknown, 2 Faculty, 2 Mixed, 1 U.of M.,
10 Staff, 19 Students

Respondents
4 Faculty, 10 Staff, 17 Students, 2 Other

HUMAN RIGHTS
POSITION OF COMPLAINANT/RESPONDENT

Complainants
1 U.of M., 2 Staff, 7 Student

Respondents
2 U.of M., 1 Mixed, 1 Staff,
1 Student, 5 Faculty

HUMAN RIGHTS
NATURE OF COMPLAINT

Disability - 3
Gender - 3
Sex. Orient - 2
Race - 2
Marital Sta. - 1
Other - 1
3. PROGRESS TOWARD MEETING COMMITMENTS

3.1. ELIMINATION OF SYSTEMIC BARRIERS
Six faculties and schools: Architecture, Art, Continuing Education, Education, Music and Physical Education comprise the second phase of employment systems reviews by faculties and schools. As part of these reviews, faculties and schools are charged with reviewing promotion and tenure criteria and procedures; workloads including teaching loads of faculty, and developing faculty-based staffing goals.

3.2. ACHIEVEMENT OF A REPRESENTATIVE WORKFORCE
Information on the representation of under-represented groups in the University workforce has not updated since 1996 because of the loss of a full-time employment equity assistant position. Monitoring will be resumed, at least in part, through a part-time position for the Equity Services Office to begin September/October 1999.

The Employment Equity Officer collaborated with other Human Resources staff in drafting a revision of the recruitment policy for support staff (Task Force recommendation 14). The proposed draft includes a proposal for a pilot project on applicant tracking for support staff recruitment.

3.3. SPECIAL MEASURES AND REASONABLE ACCOMMODATION
With the collaboration of the Office of the Vice-President (Academic) and Provost, the ESO provides workshops for search committees for academic appointments. Directed to chairs of search committees, as per the policy on Academic Recruitment, these workshops are now open to any potential and active members of search committees as well as staff supporting academic searches. In 1998-99, 78 participants included 5 deans, 40 chairs, over 20 other academics, and 10 support staff.

The EEO has renewed or made new contacts with agencies which support employment of people with disabilities, Aboriginal peoples and new immigrants. On request, the ESO is sending postings of available positions to these agencies. The University has also entered into a partnership with Reaching E-Quality, an agency supporting employment of persons with disabilities, to provide work-experience opportunities for their clients.

3.4. ESTABLISHMENT OF A FAVOURABLE CLIMATE
The ESO began a consideration of retention of academic staff. This was prompted by commitments made by the University to the FCP, concerns raised in Senate as well as by ESO personnel in the course of their work. The objective is to review the numbers of academics resigning or taking early retirement and to determine whether or not men as well as women are leaving because of dissatisfaction with their experience as faculty members at the University. Resignation was the most common reason for full-
is still investigating the complaint.

5.2. CONCERNS OF EMPLOYEES
The Employment Equity Officer handled numerous enquiries from employees on working conditions; those requiring meetings and/or written responses include:

- concerns about equity in hiring decisions (9), employment conditions (13), career advancement, retention, climate, reasonable accommodation, and seniority. Similar concerns were received from administrators (4). The Employment Equity Officer referred other callers to the appropriate University office.

- enquiries and complaints from applicants for academic positions (5) as well as informational interviews with applicants with disabilities (2).

The office also handled requests for information from the University community on the University's employment equity program and practices, or employment equity in general (25).

6. OTHER UNIVERSITY ACTIVITIES
The Employment Equity Officer:

- was a member of an ad hoc committee addressing recruitment and retention of Aboriginal Students (self-declaration process). This is part of the University's response to the Task Force recommendations relevant to making the University of Manitoba the University of choice for the Aboriginal populations.

- collaborated with Administrative Systems, IST in meeting Y2K requirements, including the Paradox Conversion Project and the change in network servers. The Paradox Conversion Project involves converting from the software application, Paradox, to Microsoft Access for the database requirements of the employment equity program. The project is not yet completed.

- reviewed all electronic and paper files of the Employment Equity Office as part of the University's requirements to comply with FIPPA legislation.

- represented the President at the opening of the new Canadian Centre for Disability Studies and at a CEO Breakfast organized by the Manitoba Employment Equity Practitioners Association.

- provided data to the President's Office on representation of women among academic staff and among new hires by type of appointment, new hires and departures of academic staff.
- Maintaining an up to date database on representation of women and minority groups at all levels of the University workforce.

- Reviewing the success of faculties and schools in recruiting minority groups and developing faculty-based strategies to increase both recruitment and retention of designated group employees.

- Converting the coding of University positions from a now out-of-date federal system to the new National Occupational Codes now used by Statistics Canada and comparison of the University representation of designated groups with that in the qualified labour force, as determined by the 1996 census.

8.3. SPECIAL MEASURES AND REASONABLE ACCOMMODATION

- Reviewing policies and procedures of recruitment of academic and support staff, including enhancing or expanding information sessions and providing guidelines and other supporting materials to those involved in hiring.

- Circulating information on reasonable accommodation to those administrators and others involved in recruitment.

- Developing specific pro-active strategies to improve the hiring, retention and career advancement of designated groups.

8.4. ESTABLISHMENT OF A FAVOURABLE CLIMATE

- Revising and enhancing brochures and other informational materials on employment equity and related issues.

- Collaborating with ESO personnel in education and awareness workshops and presentations.

Mary Galloway
Employment Equity Officer
UNIVERSITY MEDIATION SERVICE

The primary purpose of this year’s report is to indicate that as of the end of the reporting period, the University Mediation Service (UMS) ceased to exist. The reasons for the “closure” of the UMS are as follows:

1. There are a variety of conflict resolution service providers within the University community. These include other staff of the Equity Services Office, the Office of Student Advocacy, and effective April 1, 1999 the new University Ombudsman. These service providers may or may not use mediation as a form of conflict resolution, but do conciliate (i.e. use a variety of informal conflict resolution techniques that may include informal mediation) between disputants, depending on circumstances.

Perhaps, partially as a result of the number of conflict resolution service providers at the University, the UMS has never received a large number of cases. Since the “opening” of the service in 1993, the number of cases referred to the service has never exceeded the mid-teens per year.

2. No resources have ever been formally allocated to the UMS. The service has essentially been one person, Dan Bradshaw (previously in the position of Organization Development Specialist, now the Manager, Human Resource Services) who acted as the Program Coordinator of the UMS, with some assistance from volunteers. There was an understanding between Bradshaw and his direct reports that the University Mediation Service would encompass approximately 25% of duties. With new responsibilities as the Manager, Human Resource Services, it is not possible for Bradshaw to provide a 25% time commitment to the UMS.

3. The majority of cases that were referred to the UMS could be described as either “co-workers/colleagues in interpersonal conflict” or “areas/departments in intra-group conflict”. Such cases fall within the realm of the mission of the Organization Development Office (which is one of Bradshaw’s functional areas of responsibilities), namely “To enhance organizational and Individual effectiveness at the University of Manitoba”.

Moreover, the Organization Development Office may bring a number of approaches to any given conflict, some of which, depending on the circumstances, may be more appropriate than mediation. Accordingly, the kinds of conflict that the UMS has typically received can be served by the Organization Development Office, and will perhaps be better served by the broader approaches that are available to clients through the Organization Development Office.
October 20, 1999.

MEMORANDUM

TO:     Deans, Directors, and
        Department Heads.

FROM:   Ms. Bev Sawicki,
        University Secretary.

SUBJECT: HONOURS:

There are several honours/awards which are awarded annually at Spring Convocation. Nomination information for the following is available from my office, telephone 474-5174.

A. Professor/Dean Emeritus/Emerita.
B. Distinguished Service Award.
C. Peter D. Curry Chancellor's Award.
D. Distinguished Professor.

A. EMERITUS/EMERITA APPOINTMENTS:

The Chancellor’s Committee which considers Professor/Dean/Librarian Emeritus/Emerita appointments meets annually in January to consider nominations. Nominations should be received in the Board of Governors Office by January 17, 2000. Please note that nominations must be considered in closed session by faculty/school councils or in the case of Librarian Emeritus/Emerita, the Librarians' Council, and the councils’ recommendations forwarded to the University Secretary for consideration by the Chancellor’s Committee.

The title of Professor Emeritus/Emerita may be conferred after retirement of any member of the teaching staff of the University who has held the rank of Professor. Individuals nominated for the title must have rendered distinguished service to the University and have a significant record in teaching, research, and scholarship. Although the number of years of service at the University of Manitoba is unspecified, it is expected those nominated will have had some reasonable length of service with the University.

The title of Dean (Director) Emeritus/Emerita may be conferred on a dean (director) who has served for at least five years. Individuals nominated for the title shall have given distinguished service to his/her faculty/school during the term of office. The title can be conferred at any time after the expiry of the term as dean (director). A Dean (Director) Emeritus/Emerita, upon retirement, is eligible to be considered for the title of Professor Emeritus/Emerita.
17 November 1998

Report of the Executive Committee of Senate

Preamble

The Executive Committee of Senate held its regular monthly meeting on the above date.

Observations

1. **Speaker for the Executive Committee of Senate**
   
   Dean R. O’Kell will be the Speaker for the Executive Committee for the December meeting of Senate.

2. **Comments of the Executive Committee**
   
   Other comments of the Executive Committee accompany the report on which they are made.

Respectfully submitted,

Dr. E. J. E. Szathmáry, Chair
Executive Committee of Senate

Terms of Reference: Senate Handbook (Revised 1992), Section 9.

/sigp
Report of the Senate Committee on Admissions on a request from the Faculty of Nursing to amend its admission criteria

Preamble:

On May 6, 1999, the Faculty Council of the Faculty of Nursing approved a proposal to amend the admission criteria for the Bachelor of Nursing Programs offered at the Brandon and Norway House sites. Under the proposal, eligible applicants would have present a completed 40S level science course (replacing the current requirement of Chemistry 40S or Physics 40S) if their application was to be based on high school results. Transfer students, on the other hand, would have to present a 100-level science course (3 credits) OR a 40S science (replacing the current requirements for specific chemistry or physics prerequisites); the English requirement for this category of applicants would drop to three credits from six (though the option of presenting two credits of English 40S would remain unchanged).

The Faculty of Nursing Council also agreed to remove the current ceiling on transfer credits allowed for admission applicants with a previous degree. These students would, of course, still be required to meet the minimum residence requirements of two years (or 67 credit hours).

Observations

The changes to the Science admission requirements are consistent with proposed program changes in Nursing, with the aim of maintaining science requirements while increasing options for students in choosing science courses.

The Faculty of Nursing has clarified the mathematics requirement for the purpose of admission to that Faculty; the acceptable courses are Pre-Calculus 40S and Applied Mathematics 40S.

The reduction in the English requirement for admission of transfer students acknowledges changes in programming in universities, which now offer many three-credit English courses.

The elimination of the ceiling on the number of allowable transfer credits allows the Faculty of Nursing to state a minimum expectation in its residency requirement, which it prefers.

Recommendations

The Senate Committee on Admissions recommends to Senate as follows:

1. That the current admission requirements for the Bachelor of Nursing program offered at the Brandon and Norway House sites be amended (a) for applicants applying from high school, to require a 40S-level science credit in place of the current requirement of a chemistry 40S credit or a physics 40S credit, and (b) for applicants applying as transfer students, to require three credits of 100-level English rather than six, and to require a 100-level science course (three credits) or a 40S science course rather than specific chemistry or physics courses.
DATE: May 18, 1999.

To: Ms. Bev Sawicki, Secretary of Senate  
From: Dr. Wanda Chemomas, Associate Dean, Undergraduate Programs
Subject: Admission Requirements

Recommendations were passed at the May 5, 1999, Council Meeting of the Faculty of Nursing that endorsed the changes noted in bold in the "Proposed" column:

A. Admissions to Brandon and Norway House Sites from High School:

<table>
<thead>
<tr>
<th>CURRENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Math 40S (300)</td>
<td>- Math 40S (300)</td>
</tr>
<tr>
<td>- English 40 - 2 credits (300)</td>
<td>- English 40 - 2 credits (300)</td>
</tr>
<tr>
<td>- Chemistry 40S (300) OR Physics 40S (300)</td>
<td>- a 40S level science</td>
</tr>
<tr>
<td>- A minimum of 60% is required in the three 40S (300) level courses, with an overall average of 63%.</td>
<td>- A minimum of 60% is required in the three 40S (300) level courses, with an overall average of 63%.</td>
</tr>
</tbody>
</table>

B. Admission to Brandon and Norway House Sites - Transfer Students:

<table>
<thead>
<tr>
<th>CURRENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Completion of 24 credit hours at a university level</td>
<td>- Completion of 24 credit hours at a university level</td>
</tr>
<tr>
<td>- Minimum of 2.0 cumulative grade point average</td>
<td>- Minimum 2.0 cumulative grade point average</td>
</tr>
<tr>
<td>- a 100-level English (6 credits) OR English 40-2 cr. (300)</td>
<td>- a 100-level English (3 credits) OR English 40-2 cr. (300)</td>
</tr>
<tr>
<td>- a 100 level Chemistry (3 credits) or Chem 40S (300); OR a 109 level Physics (3 credits) or Physics 40S (300)</td>
<td>- a 106-level Science (3 credits) OR a 40S science</td>
</tr>
<tr>
<td>- a minimum grade of &quot;C&quot; in each</td>
<td>- a minimum grade of &quot;C&quot; in each</td>
</tr>
</tbody>
</table>
Report of the Senate Committee on Rules and Procedures on Proposed Revisions to Faculty/School Council By-Laws

Preamble

The Committee on Rules and Procedures has as one of its responsibilities the review of proposed amendments to Faculty/School Council By-Laws. Since last reporting to Senate, the Committee has reviewed submissions from the Faculty of Agricultural and Food Sciences, the Faculty of Nursing, and the School of Music.

The terms of reference for the Committee on Rules and Procedures are found on page 10.22 of the Senate Handbook (Revised 1993).

Observation

1. The revision to the Faculty of Agricultural and Food Sciences By-Law adds two support staff members to its composition (I. 1. c).

2. Revisions have been made to the Faculty of Nursing Membership (I. 1.), Selection of Undergraduate Student Representatives (I.2.), Limitations on Participation of Members (I.3) has been completely eliminated, and a slight revision has been made to the new I.3. c) with respect to quorum.

3. The School of Music has modified its By-Law to include one representative of the support staff and one representative of the part-time academic staff (not on annual salary) on Council (new clauses I. 1. a) and (d). A clarification has been made to I. 1. a).

Recommendation

The Senate Committee on Rules and Procedures recommends that Senate approve the proposed revisions to the Faculty/School Council By-Laws for the Faculty of Agricultural and Food Sciences, the Faculty of Nursing, and the School of Music, as submitted.

Respectfully submitted,

F.A. Braid, Chair
Senate Committee on Rules and Procedures

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
e) Twenty-five members shall constitute a quorum for the conduct of business at any meeting of Council.

II COMMITTEES

a) There shall be standing committees as required by Senate and as deemed necessary by Faculty Council and which report directly to Council.¹

b) Students shall be represented on such committees, in such numbers and with such rights of participation as provided for in the standing rules of the faculty.

c) Undergraduate student members of Committees of Council shall be selected by the F.A.S.O. Council.²

d) Graduate student members of Committees of Council shall be selected by the Executive of the Graduate Students' Association from among those students registered in a graduate program of one of the departments in the faculty.

e) The Dean shall be a member ex officio of all Standing and ad hoc Committees. A member of the Dean's office staff may be invited to attend any meeting of a committee and may, with the approval of the Dean, be appointed Secretary of a committee.

III ELECTION AND REMOVAL OF SENATE REPRESENTATIVE

All and only members of Council holding a full-time academic appointment in the faculty are eligible for election to Senate from Council and eligible to vote for the election or removal of members to the Senate.

(Revised by Faculty Council, May 7, 1999)

¹Terms of Reference in Section 6

²Section 6, page 6.1

THE COUNCIL OF THE FACULTY OF NURSING BYLAW

This bylaw is supplementary to the Faculty and School General Bylaw, a copy of which shall be appended hereto.

I. COUNCIL OF THE FACULTY OF NURSING

1. Membership

In addition to those persons provided by the Faculty and School Council General Bylaw, the Council of the Faculty of Nursing shall be composed of:

(a) All full-time instructors
(b) All part-time faculty and instructors
(c) The Director of Student Records or his/her designee
(d) One undergraduate student and one graduate student registered in the Faculty, in addition to those provided for in the General Bylaw, making a total of five student representatives.
(e) The Canadian College of Health Service Executives, Manitoba Chapter will be asked to elect a representative, from a health care agency
(f) Representative from Faculty of Medicine (elected by their Council)
(g) Representative from Manitoba Association of Registered Nurses (elected by the Board)
(h) Representative from Manitoba Organization of Nurses Associations (elected by the Board)

(i) All full-time faculty members
(j) All part-time faculty members
(k) Chair, Graduate Nursing Students Association
(l) Five undergraduate students consisting of: the Senior Sticker, or in the absence of the Senior Sticker, the Vice-Sticker; one student from each of Years II, III and IV; and the Student President from the Baccalaureate Program for Registered Nurses
(m) Dean, Faculty of Medicine or designee
(n) President, Manitoba Association of Registered Nurses or designee
(o) Nursing Chair, Red River College or designee
(p) Nursing Chair, Keewatin Community College or designee
(q) Faculty Librarian
(r) Administrative Coordinator of the Faculty
(s) One Support Staff member (elected by and from the Support Staff)
(t) Two Clinical Education Facilitators (elected by and from the Clinical Education Facilitators)
(u) Nursing Alumni Association representative, appointed by the Dean
(v) Executive Assistant (non-voting)
(w) Communications Officer (non-voting)
deems proper for promoting nursing education and the advancement of nursing.

5. Powers to Act

In addition to the powers provided in the General Bylaw, the Council of the Faculty of Nursing shall have power to appoint representatives to such other bodies concerned with Nursing Education and Nursing as it deems advisable.

SENATE approved March 1/89
4. Meetings

(a) A quorum of the School Council shall be a majority of the members thereof.

(b) The presiding officer at all meetings of the School Council shall be the Director or his designate.

(c) Meetings of the School Council shall be called by the Director of the School on his own motion, or at the written request of any six members of the School Council.

(d) At least five days' written notice of any School Council meetings shall be given.

(e) All School Council meetings shall so far as student attendance is concerned be open to music students. (*Open Council meetings* and *closed Council meetings* bear the same meaning in this by-law as those terms bear in the Senate by-laws so far as the same is applicable.)

(f) The Council shall have the right to permit and/or to invite non-members to attend any or all of its meetings and may delegate to its Chair such powers of permission and/or invitation.

5. Power to Recommend

The School Council of the School of Music shall have the power to make such recommendations to such persons or bodies as it deems proper for promoting musical education and the advancement of music.

II. REPRESENTATIVES TO SENATE

All members of the School Council except student members thereof shall be eligible to vote for the election or re-novel of members to Senate, provided, however, that no person is eligible to be elected to Senate who is not a full-time member of the School of Music staff.

I. (c) one representative of the support staff selected annually by and from the members of the support staff.

I. (d) one representative elected annually by and from the part-time members of the academic staff not on annual salary.
Department of Asian Studies

The department is proposing that a number of course numbers be changed to reflect the course levels more accurately and to bring them in line with numbering for like courses at other Canadian tertiary institutions. Accordingly, the following courses will be deleted: 099.091 Introduction to Chinese (Mandarin), 099.092 Introduction to Japanese, 099.093 Basic Sanskrit, 099.094 Basic Hindi-Urdu, 099.101 Intermediate Chinese (Mandarin), 099.102 Intermediate Japanese, 099.103 Intermediate Sanskrit, 099.104 Intermediate Hindi-Urdu, 099.201 Advanced Chinese (Mandarin), 099.212 Advanced Japanese and 099.214 Advanced Hindi-Urdu. They will be re-introduced as: 099.1AA Introduction to Chinese (Mandarin), 099.1BB Introduction to Japanese, 099.1CC Basic Sanskrit, 099.1DD Basic Hindi-Urdu, 099.2AA Intermediate Chinese (Mandarin), 099.2BB Intermediate Japanese, 099.2CC Intermediate Sanskrit, 099.2DD Intermediate Hindi-Urdu, 099.3AA Advanced Chinese (Mandarin), 099.3BB Advanced Japanese and 099.3DD Advanced Hindi-Urdu.

Two courses are being introduced in order to be able to offer 099.211 East Asian Civilization as two half courses in order to facilitate student specialization in either China or Japan and to provide flexibility in timetabling: 099.2JJ Japanese Civilization and 099.2KK Chinese Civilization.

In order to meet student demand and instructor interest, the following are being introduced: 099.2XX History, Culture and Society in Chinese Film, 099.2XY Women in Chinese Film, 099.3XX Masterpieces of Asian Literature, and 099.3XY Advanced Mandarin Comprehension.

Arising from the above changes, two courses need to be modified: 099.211 East Asian Civilization and 099.236 Mandarin Comprehension.

The Committee on Curriculum and Course Changes notes that most of the courses in the Asian Studies programme are being taught by sessionals, and this leads to questions and concerns about issues such as continuity.

2. School of Medical Rehabilitation

Physical Therapy Programme

The School of Medical Rehabilitation is proposing an extensive re-organization and re-sequencing of its existing curriculum in order to allow for the better integration of material. Accordingly, the following courses are being deleted: 068.146 Basic Clinical Sciences, 068.171 Physical Therapy Management 1A, 068.172 Physical Therapy Management 1B, 068.270 Fundamentals of Physical Therapy Management of Musculoskeletal Disorders, 068.271 Orthopedic Assessment and Management of Limbs and Spine, 068.273 Human Performance, 068.274 Cardiorespiratory Clinical Education, 068.286 Musculoskeletal Clinical Education, 068.290 Fundamentals of Physical Therapy Management, 068.371 Directed Studies - Module A, 068.390 Summer Internship I, and 068.391 Summer Internship II.

The following courses will be introduced: 068.1BB Physical Therapy Management, 068.1AA Basic Clinical Sciences, 068.1CC Rehabilitation Exercise I, 068.1DD Cardiorespiratory Clinical Education, 068.2AA Physical Therapy Management of Musculoskeletal Disorders, 068.2BB Orthopaedic Assessment and Management I, 068.2CC Rehabilitation Exercise II, 068.2DD Musculoskeletal Clinical Education, 068.2EE Orthopaedic Assessment and Management II, 068.3AA Summer Internship, and 068.3BB Directed Studies - Module A.
1. Faculty of Arts

Department of Anthropology

Courses to be deleted:

076.320 History of Anthropology -6
076.335 Ethnohistory of Sub-Saharan Africa -3
076.336 Ethnohistoire de l'Afrique sous-saharienne -3
076.359 Peoples and Cultures of Contemporary Latin America -6

Courses to be introduced:

076.2AA Prehispanic Cultures of Mexico (3) +3
This course will examine the archaeology of Mexico with special focus on Pueblos and Western culture area. An analysis of the changing social, political and economic structures of these societies will be complemented by a consideration of aesthetic, philosophical and religious aspects. Visits to archaeological sites will complement the lectures and readings for this course. Only offered in Morelia, Mexico as part of the Term in Mexico option. Pre-requisites: written consent of the Co-ordinator for Latin American Studies.

076.2BB Anthropological Perspectives on Contemporary Mexico (3) +3
An introduction to the cultural diversity, and social and economic complexity of contemporary Mexico. The lectures will be complemented by visits to museums and places of historical interest in Morelia and other localities of Michoacan. Only offered in Morelia, Mexico as part of the Term in Mexico option. Pre-requisites: written consent of the Co-ordinator for Latin American Studies.

076.2XX Ethnohistory of Sub-Saharan Africa (3) +3
An overview of the development of African cultures, technologies and political systems from earliest times to the present. Students may not hold credit for 076.2XX and the former 076.335 or the former 076.354.

076.2XX Ethnohistoire de l’Afrique sous-saharienne -3
Le cours se présente sous la forme d’une vue générale du développement des cultures africaines au sud du Sahara, de leurs technologies et systèmes politiques, du paléolithique à nos jours. L’étudiant(e) ne peut se faire créditer à la fois le 076.2XY et les anciens 076.336 et 076.354.

076.2XY Peoples and Cultures of Contemporary Latin America (3) +3
An ethnographic survey of the cultural diversity of contemporary Latin America with selected case study examples drawn from Mexico and Central America, South America, and the Hispanic Caribbean. Case studies are selected to represent a variety of anthropological perspectives. Students may not hold credit for both 076.2XY and any of the former 076.348, 076.353 or 076.359. Pre-requisites: 076.120 or 076.122 or written consent of instructor.

076.3XX History of Anthropology (3) +3
A temporal survey of the development of major paradigms and theoretical movements in anthropological thought and method. Students may not hold credit for both 076.3XX and the former 076.320 or the former 076.490. Pre-requisites: 076.239 or written consent of instructor.

076.3XY Demography of Past Populations (3) +3
This course provides students with a basic understanding of demographic methods and techniques
Group E and 076.483

Anthropology必修课程

B. C. D. 6 additional hours of credit in
additional hours of credit from each of Groups
required in years two and three are six

Page 6

Total: 18 hours

MINOR

Major:

Advanced

Total: 60 hours

(No changes)

1. 076.483, 076.399, 076.339
2. One of 076.289, 076.339, 1. 076.483

1. 076.483, 076.339, 076.229, 1. 076.239

076.121 and 076.122 or 1. 076.239

PROGRAM

Year I

Year II

Year III

Year IV

Total: 120 hours

1. ANTHROPOLOGY (076)
099.2BB  Intermediate Japanese  
For students who have taken Japanese 099.1BB (the former 099.092). Continues the introduction of basic vocabulary, grammatical structures and more written characters. Greater emphasis will be given to the development of aural/oral skills. Students may not hold credit for both 099.2BB and the former 099.102. Not open to students who have previously obtained credit in 099.2BB or the former 099.212. Pre-requisite: 099.1BB or the former 099.092 or written consent of instructor.

099.2CC  Intermediate Sanskrit  
Advanced grammar, vocabulary, and syntax to enable the student to read epic and puranic materials. Students may not hold credit for both 099.2CC and the former 099.103 or the former 020.135. Pre-requisite: 099.1CC or the former 099.093 or written consent of instructor.

099.2DD  Intermediate Hindi-Urdu  
Training in more complex conversation techniques, including narration, persuasion and argumentation. Further readings in Hindi; reading and writing in the Urdu script; reading of 20th-century Hindi and Urdu literature. Students may not hold credit for both 099.2DD and the former 099.104 or the former 020.137. Not open to students who have previously obtained credit for 099.3DD or the former 099.214. Pre-requisite: 099.1DD or the former 099.094 or written consent of instructor.

099.2JJ  Japanese Civilization  
An interdisciplinary study of Japanese civilization from earliest times to the Meiji Restoration. All aspects of traditional Japanese culture will be examined, including geography, religion, philosophy, history, sociology, economics and politics. The nature of Japanese cultural identity will be taken as a unifying theme. Students may not hold credit for 099.2JJ and 099.211.

099.2KK  Chinese Civilization  
An interdisciplinary study of Chinese civilization from earliest times to the Opium War. All aspects of traditional Chinese culture will be examined, including geography, religion, philosophy, history, sociology, economics and politics. A central unifying theme will be the examination of Chinese cultural identity. Students may not hold credit for 099.2KK and 099.211.

099.2XX  History, Culture and Society in Chinese Film  
This course will focus on the presentation of various aspects of twentieth century culture through the medium of film. Films will be selected largely from those recently produced in China, Taiwan, and Hong Kong, with some attention to recent North American movies by ethnic Chinese directors.

099.2XY  Women in Chinese Film  
This course will focus on cinematic presentation of women in Chinese films. Films will be selected largely from those produced recently in China, Taiwan, and Hong Kong, as well as in North America by ethnic Chinese directors. The intention is to review how the image of women as reflected in Chinese cinema has changed with time, place, and modern technology.

099.3AA  Advanced Chinese (Mandarin)  
This course is for those who have taken intermediate Chinese or who have obtained basic language skills in Mandarin Chinese elsewhere. A balanced approach to reading, writing, and aural/oral skills will be employed. Students will use advanced prepared texts and will also be introduced to selected examples of contemporary Chinese literature. Students may not hold credit for both 099.3AA and 099.2XY.
Students may substitute up to 6 hours of credit of another language course at the 200 level for the
110.143 (099.143) and
111.142 (099.142) or
111.141 (099.141)

Total: 18 hours

MINOR

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<th>Course</th>
<th>Credit Hours</th>
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<tr>
<td>110.143 (099.143)</td>
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<tr>
<td>111.142 (099.142)</td>
<td>3</td>
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<tr>
<td>111.141 (099.141)</td>
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Program Coordinator: R. Howard

E.2 ASIAN STUDIES (099A)

1999/2000 General Calendar - Page 84
<table>
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<tr>
<th>Code</th>
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<tr>
<td>099.2AA</td>
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<td>099.2BB</td>
<td>Intermediate Japanese</td>
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<tr>
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<td>Intermediate Sanskrit</td>
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<td>099.3AA</td>
<td>Advanced Chinese (Mandarin)</td>
</tr>
<tr>
<td>099.3BB</td>
<td>Advanced Japanese</td>
</tr>
<tr>
<td>099.3DD</td>
<td>Advanced Hindi-Urdu</td>
</tr>
</tbody>
</table>

*No longer offered*

(no further changes)

(Material to be added)
068.2BB  Orthopaedic Assessment and Management I  +6
Integrated approach to the orthopaedic assessment and management of upper limb, lower limb, and spinal disorders. 111 hours.

068.2CC  Rehabilitation Exercise II  +2
A lecture and lab based course which focuses on the development of comprehensive rehabilitation, health, and fitness exercise programs for normal subjects, clients with specific conditions/disabilities, and athletes. 34 hours.

068.2DD  Musculoskeletal Clinical Education  +10
Consists of a period of clinical practise related to the management of musculoskeletal conditions. Course evaluated on a pass/fail basis. 375 hours.

068.2EE  Orthopaedic Assessment and Management II  +6
Integrated approach to the physiotherapy assessment and management of upper limb, lower limb, and spinal disorders. Successful completion of 068.2BB and 068.2EE equivalent of E2/V2 level of professional classification. 109 hours.

Effective 2001-2004

068.3AA  Summer Internship  +8
An eight-week period of clinical/practical experience under the direction and supervision of registered physiotherapists. Course evaluated on a pass/fail basis. 296 hours.

068.3BB  Directed Studies - Module A  +3
A theory, practical and tutorial based course designed to provide the opportunity for problem-solving through the integration of relevant information, in the areas of sports physiotherapy and Women’s Health issues. 52 hours.

NET CHANGE IN CREDIT HOURS:  +10
Faculty of Science

Environmental Science Programme

Courses to be introduced:

128.3XY  
Field Topics in Environmental Science I  
Field and practical experience in selected topics of current interest in the Environmental Sciences, content to vary depending on the needs and interests of students and faculty. Pre-requisite: permission of the instructor; students not enrolled in Environmental Science must obtain permission from their Major/Honours programme.

128.3XZ  
Extended Field Topics in Environmental Science I  
Field and practical experience in selected topics of current interest in the Environmental Sciences, content to vary depending on the needs and interests of students and faculty. Pre-requisite: permission of the instructor; students not enrolled in Environmental Science must obtain permission from their Major/Honours programme.

128.4AB  
Project in Environmental Science  
A research project in any aspect of environmental science, chosen in consultation with the Programme Director and an appropriate supervising faculty member. Written reports and oral presentation on the results of the project will be required. The course is normally available only to final year students in the Environmental Science Programme. Pre-requisite: permission of Programme Director.

128.4XY  
Field Topics in Environmental Science II  
Field and practical experience in selected topics of current interest in the Environmental Sciences, content to vary depending on the needs and interests of students and faculty. Pre-requisite: permission of the instructor; students not enrolled in Environmental Science must obtain permission from their Major/Honours programme.

128.4XZ  
Extended Field Topics in Environmental Science II  
Field and practical experience in selected topics of current interest in the Environmental Sciences, content to vary depending on the needs and interests of students and faculty. Pre-requisite: permission of the instructor; students not enrolled in Environmental Science must obtain permission from their Major/Honours programme.

NET CHANGE IN CREDIT HOURS: +15
The Changes are:

1. Economics 018.121, 018.122, 053.263, 053.264 are being added to the list of optional Social Sciences/Humanities courses.

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
3. Two 3-credit hour courses being introduced (99.2JJ Japanese Civilization, 99.2KK Chinese Civilization) cover the same content as 99.221 East Asian Civilization (6). The courses are being introduced to increase the flexibility of program offerings and to allow the program to adjust to student interest and demand.

4. The program has one FTE faculty in the East Asia specialty area and will be hiring a language instructor this year.

5. The delivery of the Asian Studies Program depends heavily on sessional support. There is no long-term comment by the Faculty of Arts to continue or to expand the provision of sessional support for the Program.

Recommendations

2. That Senate approve and recommend to the Board of Governors the recommendation from the Faculty of Arts that the Asian Studies language courses be renumbered.

3. That Senate approve and recommend to the Board of Governors the introduction of new courses 99.2XX History, Culture and Society in Chinese Film (3), 99.2XY, Women in Chinese Film (3), 99.2JJ, Japanese Civilization (3), 99.2KK Chinese Civilization (3) and 99.3XY Advanced Mandarin Comprehension (6).

B. FACULTY OF MEDICINE, SCHOOL OF REHABILITATION

Preamble

The Division of Physical Therapy of the School of Medical Rehabilitation is proposing extensive curriculum changes to its program that result in a net increase of 10 credit hours to the program.

Observation

The Division of Physical Therapy is proposing to reorganize and resequence the existing curriculum for better integration of the material. The changes increase the contact time in the first year of the program, but decreases it slightly in the two following years. The changes in contact times have led to a reevaluation of the credit hours for the courses and this has produced the net increase in total credit hours. There is, in fact, a net reduction in number of courses.

Recommendation

4. That Senate approve and forward to the Board of Governors the recommended changes in the curriculum of the Division of Physical Therapy of the School of Rehabilitation.

C. FACULTY OF SCIENCE

Preamble

The Faculty of Science is proposing the introduction of the following five courses in Environmental Sciences: a 6-credit hour Project in Environmental Sciences, two 1.5 credit hour Field Topics courses and two 3-credit hour Extended Field Topics Courses.

Observations

1. The University has designated environment as a strategically important sector and the University has a number of programs with an environmental emphasis.
Proposal for Interdisciplinary Degree Programs in Global Political Economy (GPE)

Recommendation 57.e. of the Presidential Task Force on Strategic Planning calls for the development of a proposal for an “interdisciplinary program in global political economy”. The Departments of Anthropology, Economics, History, Political Studies, Sociology and the Asian Studies Program have developed this proposal for your consideration. We are proposing two interdisciplinary degree programs: a B.A. (General) Degree and a B.A. (Advanced) Degree in Global Political Economy.

Why a Degree Program in Global Political Economy?

Human beings emerged as a species within the mutuality of small-scale societies. Economic, social and political activities occurred as part of the very fabric of small scale societies. Social power was diffuse and social stratification was minimized. The historic movement away from this anthropological point of origin has been such that power has increasingly been accumulated in the hands of a decreasing number of interest groups. History is replete with the details of the growing concentration of power in economic and political institutions and with the general undermining of civil society and social forms of solidarity. The movement through peasant society, the emergence of the state, the use of mercantile, colonial and then capitalist systems of trade, the rise of the nation state and, in recent times, the growing ascendance of transnational economic and political forces are all part of the story of how the current global system of power and wealth distribution came into existence. The power and central role of the nation state was essential to capitalism as a social formation until recently. We are at a dramatic social moment when powerful economic interests, organized at the global level, are seeking to break the fetters of nation state regulation of economic activity and move us into a global capitalist market structure.

Each of the participating disciplines has an important contribution to make towards a thorough and rich understanding of this radical change in the social, economic, and political organization of the human species. These are truly interesting times.

History's task is to explain the origins, development and emergence of the world in which the disciplines in the social sciences take their places and deploy their particular perspectives and methods. Traditionally, historians have focussed on the nation or region as an object of study, but as the world has become increasingly dominated by global historical processes, world history has emerged as an important field of historical inquiry. The History courses required in the GPE programs are global in scope and emphasize political economic factors as essential to historical understanding. On the one hand, the history of the changing political economy itself is dealt with as a central theme in global historical development from the emergence of capitalism.
Sociology emerged as a discipline to help understand, interpret, and shape the institutions of modern society. The term sociology has two stems - the Latin *socius* (companion) and the Greek *logos* (study of) - and literally means the study of the processes of companionship (*Penguin Dictionary of Sociology, Third Edition*). Its principle *raison d'être* is to study the bases of group membership and social solidarity. The task is to discover how the strong social fabric present in the anthropological forms of civil society could be embedded within modern societies. The forces which have shaped the nation state and the global economy have been very corrosive of civil society and social solidarity has been undermined at an alarming and accelerated rate. The emergence of xenophobic forms of ethnic solidarity and the undermining of the welfare programs of the liberal nation state combine to present new and urgent challenges to the sociological imagination. Part of the search for healthy and life-affirming forms of collective solidarity must be undertaken within the context of the global political economy which undermines it and yet makes such solidarity so essential for the modern world.

The GPE initiative at the University of Manitoba is a unique approach for the study of international, political, and economic issues at the post-secondary interdisciplinary level. These programs allow students greater exposure to related fields and disciplines and create a meaningful opportunity for the academic development of those interested in a collaborative field of study. Cooperative programs such as these present a balanced and innovative way to introduce students to the various aspects of global political and economic relations, and result in an essential marketability for potential graduates. Either degree would produce graduates with an advantageous and multi-disciplinary background, and, whereas students may have been previously limited in their choice of related courses and fields, these programs would ameliorate some of those institutional and discipline-related obstacles. Any student who is interested in a career in international business and trade, international banking and finance, with foreign affairs or any of the international agencies, or in any of the host of related jobs in financial institutions, corporations, governments, non-governmental agencies, unions or the media would be well advised to consider these programs of study.

Proposal for B.A. (General) Degree in Global Political Economy

The B.A. (General) Degree in GPE is truly an interdisciplinary program which prescribes course selection in five disciplines of relevance to the topic of global political economy. The resulting interdisciplinary breadth is a significant departure from the traditional concentration in a discipline-based major program (of 30 credit hours) accompanied with a minor (of 18 credit hours). As can be seen in the proposed Table of Required Courses, students would have required concentrations of 9 hours in each of Anthropology and Sociology, 18 hours in Economics, and 12 hours in each of History and Political Studies (for a total of 60 credit hours). This number of credit hours compares favourably with the current requirement that the Major/Minor courses requirements not exceed 60 hours. It would, however, entail a review of the Faculty of Arts Regulations Policy Committee to consider a variation to the existing degree requirement that stipulates that a minor is required in the degree. The justifications for asking for such an exemption are that students' course of study will have breadth across several disciplines and it
Proposal for B.A. (Advanced) Degree in Global Political Economy

Required Courses

The B.A. (Advanced) Degree in GPE is truly an interdisciplinary program which prescribes course selection in five disciplines of relevance to the topic of global political economy. The resulting interdisciplinary breadth is a significant departure from the traditional concentration in a discipline-based major program (of up to 60 credit hours) accompanied with a minor (of 15 credit hours). As can be seen in the proposed Table of Required Courses, students would have required concentrations of 18 credit hours in Economics, 15 credit hours in Sociology, and 12 credit hours in each of Anthropology, History, and Political Studies (for a total of 69 credit hours). In addition, they would have 9 credit hours of interdisciplinary courses [99.2AA (3) and 99.4AA (6)] which are designed to integrate their exposure to a variety of disciplinary perspectives.

The 78 credit hours of required courses in this program is comparable to the designation of up to 75 credit hours of courses which can be taken to fulfill the major/minor requirements in the B.A. (Advanced) Programs now in existence. The courses required in this program should be seen as satisfying the Major/Minor requirements of the Faculty of Arts. The selection of courses in this program would ensure that students have met the Humanities and Social Science course requirements. They will also meet the Mathematics (77.229) and the Written English (several courses have the W designation).

The Four Year Advanced Degree requires 120 credit hours of course work. The proposed set of required courses would already specify 78 of those credit hours. The requirement for a science course designates a further 6 credit hours, leaving 36 credit hours for electives. Students could take these courses in a variety of ways. A principle consideration for students is whether they wish to “lock” themselves into an interdisciplinary stream at the undergraduate level and then move on to interdisciplinary graduate programs if they choose to undertake graduate studies. Some of them may wish to also leave open the possibility of undertaking an advanced degree in a discipline-based program. If so, it would be in their interest to take specific additional course in their discipline of choice when considering electives. Accordingly, the General Calendar and program brochures would give students specific advice about course selection. Since there is the equivalent of a minor in three areas, the Academic Regulations Policy Committee will be asked to consider a variation in the degree requirement that stipulates that a minor is not required in the degree.
21 October 1999

Report of the Senate Committee on Curriculum and Course Changes on a Proposal for Interdisciplinary Degree Programmes in Global Political Economy

Preamble

The Senate Committee on Curriculum and Course Changes (SCCC) met on 14 October 1999 to consider a proposal from the Faculty of Arts to offer two interdisciplinary programmes: a B.A. (General) and a B.A. (Advanced) degree in Global Political Economy.

Observations

1. The proposal was developed by the Departments of Anthropology, Economics, History, Political Studies and Sociology, together with the Asian Studies Programme, in response to recommendation 57(e) of Building on Strength: Final Report of the Task Force on Strategic Planning.

2. The Committee on Curriculum and Course Changes notes that this is a very highly-structured programme, and concern was expressed that the Faculty may find itself obliged to offer the programme even if enrollment levels should prove low. However, the Committee was informed that each Department agreed to participate in the programme because it already had courses which were offered regularly but which had space available to accommodate the additional students.

3. SCCC notes that the Faculty of Arts has accepted the premise that the programme of studies is quite broad, given the five subject areas, and it has accepted that the programme meets the major and minor requirements.

4. The Committee draws attention to the fact that there is currently no requirement for a mathematics course in the B.A. (General) programme, and therefore students will have to use one of their electives to meet the mathematics requirement.

5. It is noted that a special section is to be created for course 018.282 Special Topics in Economics. SCCC is of the belief that this is an inappropriate mechanism, and suggests that a new course with a specific title and description be developed, perhaps in the spring of 2000.

6. The Library has indicated that it will encounter no difficulty in supporting the two new courses being introduced.

7. The University's Statement of Intent for these programmes was approved by the Council on Post-Secondary Education in March of 1998.

8. The proposal was forwarded to the Senate Planning and Priorities for their consideration and comment.
List of Courses for Global Political Economy
Please consult the relevant calendar entry for each department for full course descriptions.

**Anthropology**

- **076.239** Social Organization in Cross-Cultural Perspective (B) (6)
- **076.332** Women in Cross-Cultural Perspective (B) (3)
- **076.3YX** Globalization and the World-System (B) (3)

**Economics**

- **018.120** Principles of Economics (6)
- **018.121** Introduction to Canadian Economic Issues and Policies (3)
- **018.122** Introduction to Global Environmental Economics Issues and Policies (3)

- **018.262** Special Topics in Economics (6)
- **018.2XX** Political Economy I: Production and Distribution (3)
- **018.2XY** Political Economy II: Economic Growth and Fluctuations in a Global Economic Environment (3)

**History**

- **011.137** An Introduction to Modern World History: 1500-1800 (M) (3)
- **011.138** An Introduction to Modern World History: 1800 - Present (M) (3)
- **011.159** An Introduction to Modern World History: 1500 - Present (M) (6)
- **011.238** The Twentieth-Century World (G.M) (6)
- **011.272** The World Since 1945 (G.M) (6)
- **011.432** Studies in World History since 1945 (G.M) (3)

**Interdisciplinary**

- **099.2AA** Perspectives on Global Political Economy (3)
- **099.4AA** Studies in Global Political Economy (6)

**Political Studies**

- **019.159** Introduction to Politics (6)
- **019.253** Elements of Foreign Policy [Required in General degree only. Recommended elective in the Advanced degree.] (6)
- **019.383** The Politics of International Economics Relations (6)

**Sociology**

- **077.120** Introduction to Sociology (6)
- **077.229** Introduction to Research Methods (6)
- **077.347** Political Sociology (3)
- **077.369** Sociology of the Developing Societies (3)

**Recommended Electives**

- **Anthropology**
  - **076.244** Peasant Society and Culture (B) (3)
  - **076.251** Anthropology of Economic Systems (B) (3)
  - **076.253** Anthropology of Political Systems (B) (3)
  - **076.257** Urban Anthropology (B) (3)
  - **076.338** Anthropology and Contemporary Social Issues (3)

- **Asian Studies**
  - **099.112** Asian Civilizations 1500 (3)
  - **099.143** Asian Civilizations Since 1500 (3)
  - **099.207** South Asian Civilization (6)
  - **099.211** East Asian Civilization (6)

- **Economics**
  - **018.249** Economic Accounting (3)
  - **018.261** Special Topics in Economics (3)
  - **018.339** Development Economics (3)
  - **018.366** Economic Ideas and Social Institutions (6)
  - **018.371** Sustainable Development: Issues and Policy (3)
  - **018.451** Economy and State in a Modern Period: Western Europe and North America (6)

- **Geography**
  - **053.129** Introductory Human Geography (3)
  - **053.221** Economic Geography (6)
  - **053.359** Geography of Developing Countries (6)
  - **053.380** Geography of Transportation Development (3)
  - **053.461** Models in Urban Geography (3)

- **History**
  - **011.267** History of Capitalism (M.S) (3)
  - **011.268** History of Socialism from the French Revolution to the Present (M.S) (3)
  - **011.271** Women in History (G) (6)
  - **011.341** The British Empire and Commonwealth Since 1855 (G) (6)
  - **011.358** Topics in Recent World History I (M) (3)
  - **011.359** Topics in Recent World History II (M) (3)
  - **011.491** Imperialism, Decolonization and Neo-Colonialism, 1760 to the Present (G,M) (6)

- **Political Studies**
  - **019.156** Introduction to Canadian Government (6)
  - **019.273** International Conflict Resolution (6)
  - **019.343** Comparative Foreign Policy (3)
  - **019.453** Regionalism in International Politics (3)
  - **019.466** The State in the Economy (6)

- **Sociology**
  - **077.249** Population Problems (3)
  - **077.254** Social Inequality (3)
  - **077.384** Community and Social Reconciliation (3)

Revised 15/09/99
The Proposed Advanced Major and Honours Programs in Women's Studies

Introduction

Women's Studies at the University of Manitoba has grown from the occasional department-based course addressing women's issues in the early seventies to the development of a Women's Studies Program with a Minor and General Major by the end of the eighties. During the nineties, this pattern of sustained growth continued so that in the 1998/99 academic year, 421 students enrolled in the Program's thirteen (13) three-credit hour and two (2) six-credit hour core courses. As outlined below, a variety of factors has prompted us to pursue the next step in the Program's development—an Advanced Major and an Honours degree in Women's Studies.

In December, 1998, the Program Advisory Committee of the Council on Post-Secondary Education approved the Statement of Intent for the establishment of an Advanced Major and an Honours program in Women's Studies.

Rationale

Every year, we hear expressions of interest from students taking Women's Studies courses in the possibility of registering for a B.A. Advanced or B.A. Honours in Women's Studies. Our experience in student advising, both for Women's Studies and for Honours students in other disciplines, tells us that many students would take up the opportunity to do an Advanced or Honours degree in Women's Studies. In recent years, several of our students have gone on to graduate school by piecing together four years of study which appear to be equivalent to an Honours program; students have also had to transfer to other universities after their General Major to complete a fourth year of study and earn an Honours degree. We have also lost potential students who elect to major in Departments that do grant an Advanced or Honours degrees, or who go to other universities where they can pursue an Advanced or Honours degree in Women's Studies. We are confident that the introduction of these programs will better meet the needs of our current students as well as attract new students to the Program and to the University of Manitoba.

As awareness of Women's Studies programs has increased, so have employment opportunities for Women's Studies graduates in the civil service and NGO sector, in health and social services, in the arts, in business and in industry. Locally, provincially, nationally, and internationally, skilled people are needed who can conduct gender analyses as well as develop and implement strategies for change. Our proposed programs will graduate students with strong skills in theory, research, and analysis to fill this demand. The Honours program is designed primarily for students who intend to proceed to graduate school. Our graduates have done well in graduate programs in both Canada and the United States.

In North America, the number of graduate spaces for Women's Studies students is increasing, but not as quickly as the demand. It is our eventual goal to introduce a Masters program which would help meet this demand. We are well-situated as ours would be the only such program between Ontario and British Columbia (see the attached List of Women's Studies Programs and Departments in Canada). An Honours program is an essential first step towards this goal.
(99.358 Feminist Approaches to Research); it is expected that most students will follow through on their proposed research to complete the Thesis requirement. Each thesis will be supervised by a Faculty member.

The 400-level course, Practicum in Feminist Organizing, is optional for Honours students.

Summary of Curriculum Changes

Introduce 99.4xx Honours Thesis (6)

99.4xy Advanced Feminist Theory (3)

99.4yy Practicum in Feminist Organizing (6)

Delete 99.360 Advanced Feminist Theory (3).

Resource Implications

As indicated in the attached statement, the UM Libraries can support the proposed programs in terms of monographs and related materials (such as government publications and reference sources). However, an estimated $5000 to $7500 is required to complete the back runs of currently held journal titles in Women's Studies. Over the next two years, we will secure the back runs through the Margaret Laurence Endowment Fund in Women's Studies which annually provides $5000 to our Program, part of which can be dedicated to precisely such program development costs.

The report from the UM Libraries does not cite any other acquisitions as mandatory to the proposed programs, but it does recommend that we upgrade our serials collection through an additional five titles (Women's Studies International Forum, Ms. Magazine, Women and Language, Women's Studies Journal, and Off Our Backs: a women's news journal). We will apply to the Arts Endowment Fund and investigate other avenues of support (such as the adopt-a-journal program) to secure these titles.

In terms of faculty resources, Women's Studies has tripled in size by adding two new faculty since 1994. The most recent hire in January, 1998 has made it possible for us to proceed with this next phase of program development. In addition, we have recently formalized the one-third cross appointment of Dr. Janice Dodd of the School of Medicine and, together with the Margaret Laurence Panel, have developed a plan which will bring increased resources and personnel to the Women's Studies Program. In the 1999/2000 academic year, for example, the Margaret Laurence Endowment will fund two sessional positions and a speaker series in the Program; in 2000/2001 and 2001/2002, the Endowment will fund the appointment of a postdoctoral fellow who will teach six credit hours in the Program in each year of residency.

The Honours Program will also be supported by feminist scholars across campus with whom Women's Studies has established strong reciprocal relationships in the development and administration of the Minor and General Major. Courses in the Program are organized into two groups: List A courses are housed across campus in the School of Art, the School of Music, the Faculty of Nursing, and in a range of departments and programs in the Faculty of Arts; List B courses are taught exclusively by and within the Women's Studies Program. To complete a Women's Studies degree, students enroll in courses from both lists, allowing them to benefit from a broad range of complementary courses.
Report of the Senate Committee on Curriculum and Course Changes on the Proposed Advanced Major and Honours Programmes in Women's Studies

Preamble

The Senate Committee on Curriculum and Course Changes met on 14 October 1999 to consider a proposal to create an Advanced Major and an Honours degree in Women's Studies in the Faculty of Arts.

Observations

1. In response to student demand as well as to maintain the co-ordinated programme with the University of Winnipeg, it is proposed that an advanced major programme as well as single and double honours programmes in Women's Studies be implemented.

2. The Committee understands that the same proposal has already been approved by the University of Winnipeg. Furthermore, the University of Manitoba is virtually the only University in Canada which does not already have an honours programme in Women's Studies.

3. SCCC received information from the Dean of Arts to the effect that the Faculty of Arts does not have additional new resources with which to implement these programmes. The Committee understands however that the Women's Studies unit intends to offer the programmes within existing resources.

4. The Libraries have indicated that they will be able to provide adequate support for the programmes, but that additional support will be required in order to improve the current journal collection.

5. The University's Statement of Intent was approved by the Council on Post-Secondary Education in December of 1998.

6. The proposal was also forwarded to the Senate Planning and Priorities Committee for consideration.

Recommendation

The Senate Committee on Curriculum and Course Changes recommends that the advanced major, single honours and double honours programmes in Women's Studies, together with the course changes listed below, as approved by the Faculty of Arts, be approved by Senate.

Respectfully submitted,

Dean B. L. Bronzek, Chair
Senate Committee on Curriculum and Course Changes


Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
8.31 WOMEN'S STUDIES (099W)
Women's Studies Acting/Coordinator: K. R. Grant

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>YEAR I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL MAJOR</td>
<td>(no changes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total: 30 hours of credit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADVANCED MAJOR</td>
<td>One of 099.153, 099.154</td>
<td>099.252</td>
<td>099.358</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total: 48 hours of credit</td>
<td></td>
<td></td>
<td>36 additional hours of credit from List A and/or List B, of which 5 hours of credit are at or above the 300-level and 9 hours of credit are from List B</td>
</tr>
<tr>
<td>MINOR</td>
<td>(no changes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total: 18 hours of credit</td>
<td></td>
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<tr>
<td>HONOURS SINGLE</td>
<td>099.153 and 099.154</td>
<td>A. 54 hours of credit in Women's Studies as follows:</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>1. 099.252</td>
<td>2. 099.358</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. 099.4XX</td>
<td>4. 099.4XY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. 15 hours of credit from List B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. A further 21 hours of credit from List A or List B, of which there are at least 9 hours of credit at or above the 300 level</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>B. 24 hours of credit in ancillary options</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total for Years II, III and IV combined: 78 hours of credit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Current Women's Studies Course Offerings

List A
Faculty of Arts
Anthropology
076.332 Women in Cross-Cultural Perspective (3)

Economics
018.236 Women in the Canadian Economy (6)

History
011.271 Women in History (6)
011.381 The Family, Love and Marriage in Western Society, 1500-1800 (6)
011.382 The Women's Movement, 1850 to the Present (6)

Philosophy
015.322 Feminist Philosophy (3)

Psychology
017.239 Psychology of Women (3)
017.240 The Psychology of Sex Differences (3)

Religion
020.268 Women and Religion I (3)
020.269 Women and Religion II (3)

Sociology
077.247 Courtship and Marriage (3)
077.377 Women, Health and Medicine (3)
077.379 Women, Crime and Social Justice (3)
077.381 Sociological Perspectives on Gender and Sexuality (3)

School of Art
054.464 Contemporary Issues* (3)
*Acceptable for credit only when the topic is “Women Artists”

School of Music
033.413 History of Women in Music (3)

Faculty of Nursing
049.333 Women and Health (3)

List B
Faculty of Arts
Women's Studies
099.153 Introduction to Women's Studies in the Humanities (3)
099.154 Introduction to Women's Studies in the Social Sciences (3)
099.250 Race, Class and Sexuality (3)
099.251 Women and Education (3)
Report of the Senate Planning and Priorities Committee (SPPC) on the Faculty of Arts' Proposed BA (Advanced) and BA (Honours) Programs in Women's Studies

Preamble

The Women's Studies program is proposing two interdisciplinary degree programs: a BA (Advanced) degree and single and double BA (Honours) degrees in Women's Studies. The proposed programs will primarily be based on existing courses which will be supplemented by the introduction of one 3-credit hour and two 6-credit hour courses in Women's Studies. The new courses will be at the 400 level.

Observations

1. Since its inception, the Women's Studies enrolments have increased to the current level of over 400 registrations in fifteen courses. Graduate training in Women's Studies is increasingly available and requires more intensive training than is available in the current program. There are increasing numbers of employment opportunities for graduates of Women's Studies programs in the civil service, NGO's, health and social services, in the arts and in business and industry.

2. There is an inter-university agreement between the University of Manitoba and the University of Winnipeg that enables students in Women's Studies at the University of Winnipeg to take courses from either University. The Women's Studies program at the University of Winnipeg received COPSEQ approval for a Four-Year and an Honours degree in 1998. In order to be equal participants in the coordinated programs, similar programs are needed at the University of Manitoba.

3. One of the proposed courses, Practice in Feminist Organizing, will draw on the program's established links with the community to provide students the opportunity to obtain experience at matching theory with practice.

4. The Women's Studies Program is an inter-disciplinary program built around a core of 2.3 FTE's. Honours thesis supervision will be shared by core and discipline based members of the Women's Studies program.

5. Recent hires have provided the program with the human resources needed to offer the program. Endowment funds are available to rectify deficiencies in the library holdings.

Recommendation

That Senate approve and forward to the Board of Governors the recommendation from the Faculty of Arts that a) the three new courses in Women's Studies be approved and b) the proposed BA (Advanced) and single and double BA (Honours) degrees in Women's Studies.

Respectfully submitted,

Norman Holden, Chair
Senate Planning and Priorities Committee

Terms of Reference: Senate Handbook (Rev. 1999), pp. 10-21/22

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
EMPLOYMENT EQUITY

1. INTRODUCTION

The main focus of the year's activities was the successful completion of the federal government's review of the University's employment equity program. This report covers the review; secondly, on-going activities of the Employment Equity Office, and third, priorities for next year.

In addition to the Equity Services Office, the staff of Human Resources, including the Human Resource Consultants and their assistants, support the human resource needs of faculties, schools and administrative units. Human Resource Consultants are active in furthering progress in achieving employment equity. Faculties and other administrative units have also made special efforts toward achieving a more equitable working and learning environment (Univ. Manitoba Contractor's Equity Achievement Report, 1998, Federal Contractors' Program).

This report covers the period April 1998 - March 1999.

2. THIRD COMPLIANCE REVIEW, FEDERAL CONTRACTORS PROGRAM

2.1. REQUIREMENTS OF COMPLIANCE AUDITS

The University of Manitoba participates in the Federal Contractors Program (FCP) which requires employers to implement employment equity consistent with the Employment Equity Act (1995). Employers participating in the FCP are charged with:

- Establishing a plan, with schedules of action, by which they will remove any unwarranted discrimination in their policies, procedures and practices affecting employment and career advancement of the groups designated under the Act: women, Aboriginal Peoples, persons and disabilities and members of visible minorities in its workforce;

- developing staffing goals by which they will remedy under-representation of designated groups in their workforce;

- implementing special measures and reasonable accommodations to provide a supportive work environment for members of the under-represented groups; and

- communicating to, and gaining employee involvement in, the development and implementation of employment equity.
overcome systemic barriers. These were reported to Senate in April 1999. Highlights are:

- the on-going program of reviews of employment policies and practices by individual faculties and administrative units;

- an enhanced training program, which includes training for managers and supervisors, training in recruitment and interviewing skills and training in conducting employment systems reviews; and

- the establishment of the Equity Services Office and the new programs developed by the Diversity Education Coordinator to increase awareness of diversity and equity issues.

HRDC made special comment on

- the recruitment of members of under-represented groups through the Employment Equity Incentive Fund, on the provision of special services for under-represented groups, and other programs promoting inclusivity.

- the University's failure to achieve a representative workforce. While it accepted the University's provisional staffing goals, HRDC has identified the need for the University to institute a program of special measures in order to achieve progress at recruiting Aboriginal peoples and persons with disabilities.

HRDC advised the University that during its next review it will:

- give specific attention to the special measures that the University has implemented for designated group members as well as any reasonable accommodations it has made, especially those to recruit and retain persons with disabilities;

- require, as evidence of the University's on-going efforts, statistical reports on its work force, including hiring, promotion, and departures of employees;

- require a plan of action with numerical staffing goals, based on the individual faculty and administrative unit reviews of employment systems as well as on the newly released labour force statistics from the 1996 census, and a summary of the University's equity-related activities.

The University had already addressed these requirements in its employment equity plan which it included in the Contractor's Equity Achievement Report in 1998. The University identified 20 commitments for action over the next four years. These are considered under five objectives: elimination of systemic barriers, achievement of a representative workforce, special measures and reasonable accommodation, establishment of a favourable climate, and program monitoring and adjustments. [Priorities for 1999-2000 for the Employment Equity Office are listed in section 8.]
time employees leaving the University over the four years ending in 1997.

3.5. PROGRAM MONITORING AND ADJUSTMENTS
The EEO continues to maintain databases on applicant tracking and summaries of academic searches.

4. PRIORITY ANNUAL ACTIVITIES

4.1. ACADEMIC RECRUITMENT: On-going:
The Employment Equity Officer served on six search committees as a non-voting member, and met at least once with 19 more committees in Medicine, Agriculture, Arts, Continuing Education and Science. She responded to over 75 enquiries from chairs or committee members on recruitment procedures and practices.

4.2. APPLICANT TRACKING, SUMMARY OF ACADEMIC SEARCHES: On-going:
Preliminary review of the data indicate, on the basis of self-declaration of designated group status by applicants, that very few persons with disabilities and relatively few members of visible minorities are applying for academic positions. Application rates of Aboriginal peoples are also low, however the rates remain similar throughout the succeeding steps of recruitment.

4.3. EMPLOYMENT EQUITY INCENTIVE FUND:
The sixth annual competition for EEIF awards was held in June 1998. Twenty-six proposals were received, requesting a total of $318,136 in baseline and $78,124 in budget-only funds. The adjudication committee awarded $47,024 in baseline and $76,454 in budget-only funds in nine awards supporting hiring and retention of designated groups, enhancement of education and awareness of equity issues and procedures/strategies, and provision of reasonable accommodation for a disability. The awards are listed in Appendix I.

Beginning in 1999-2000 the EEIF will no longer provide baseline funds. In order to facilitate recruitment of under-represented groups into tenure-track and other continuing positions, some awards will be eligible for renewal for a second year.

5. COMPLAINTS AND INFORMATION DISSEMINATION

5.1. COMPLAINT OF SYSTEMIC DISCRIMINATION: MANITOBA HUMAN RIGHTS COMMISSION
The Employment Equity Officer is the contact person for a complaint filed in 1990 with the Manitoba Human Rights Commission of systemic discrimination by the University against women in employment. Working with the University lawyer, the EEO provided information on academic recruitment requested by the Commission. The Commission
provided information to Public Affairs for responses to the media.

provided University of Manitoba students with information on employment equity, both through interviews as well as by lending materials.

7. LIAISON WITH EXTERNAL INSTITUTIONS AND AGENCIES

The Employment Equity Officer is the contact person for Federal Contractors Program and handled requests on the third compliance review and the University's renewal of its commitment to the program.

The Employment Equity Officer responded to requests from other universities on compliance review requirements, employment systems reviews, academic recruitment, types of appointments for academic staff, pay equity/equity in salary studies, spousal placement policies and practices, reasonable accommodation, child care, as well as other policies related to fair treatment and working conditions.

The Employment Equity Office hosted four trainees in two work-experience programs.

The Employment Equity Officer participated in a focus group on employment equity programming for the City of Winnipeg and was a guest panelist on UMFM Radio.

The Employment Equity Officer responded to numerous enquiries from other employers (4), advocacy agencies (6), and individuals on the University's employment equity program, recruitment opportunities and practices and employment equity in general. In addition the Employment Equity Officer provided material to researchers (2).

8. PRIORITIES FOR NEXT YEAR

8.1. ELIMINATION OF SYSTEMIC BARRIERS
• Continuing with employment systems reviews by faculties and schools. This includes development of additional workshops/information sessions to assist faculties in conducting workshops on workforce analysis, identifying any imbalances in representation of under-represented groups within their workforce, and on soliciting information from faculty academic and support staff on faculty procedures, practices, and working environment.

8.2. ACHIEVEMENT OF A REPRESENTATIVE WORKFORCE
• Revising the development of staffing goals by assisting faculties (in conjunction with employment systems reviews) to review the representation of their workforces and to review or develop staffing goals consistent with employment equity objectives.
Appendix I

University of Manitoba
Employment Equity Incentive Awards
1998-1999

Increase funding to full-time for office assistant who is being hired through a Human Resource Development Canada Opportunities Fund for Persons with Disabilities Grant. Faculty of Architecture: $6,000 budget-only funds.

Aboriginal Tenure Track Assistant Professor in the field of traditional Aboriginal Medicines: Joint appointment between Native Studies and Community Health Sciences. Native Studies, Faculty of Arts and Community Health Sciences, Faculty of Medicine: $30,000 budget-only funds.

Provision of Special Office Support to Accommodate Visual Impairment. Faculty of Engineering: $3,000 budget-only funds.

Hiring of an outstanding female academic. Faculty of Engineering: $14,000 baseline funds.

Changing the Workplace: Equity and Education. Equity Services Office, Human Resources Department: $10,000 budget-only funds.

Aboriginal Business Education Program. Faculty of Management: $9,500 baseline funds.

An initiative to retain a high calibre member of an under-represented group. Faculty of Science: $14,024 baseline funds.

The Access Program for Women in Science and Engineering (Access Program for W.I.S.E.): Budget support for summer staff to develop presentation curriculum for science and engineering presentations. Faculty of Science: $9,454 budget-only funds.

Elder-in-Residence/Cultural Counselor Teaching Lodge Program Education. Elders Providing Traditional Knowledge. Aboriginal Student Centre, Student Affairs: $9,500 baseline funds, and $13,000 budget-only funds.
In conclusion, even though the UMS will close, the kinds of conflict that were typically referred to the UMS can still be served by Dan Bradshaw through his functional responsibilities within the Organization Development Office of the Human Resources Department. Also, with the addition of the University Ombudsman, the overall conflict resolution resources available at the University of Manitoba have increased as of the start of 1999-2000 fiscal year.

Dan Bradshaw  
Manager  
Human Resource Services
The title Librarian Emeritus/Emerita may be conferred after retirement of any member of the Libraries' staff of the University who has held the rank of Librarian. Individuals nominated for the title must have rendered distinguished service to the University, the profession, and have a significant record in professional performance, teaching, research, and scholarship. Although the number of years of service at the University of Manitoba is unspecified, it is expected those nominated will have had some reasonable length of service with the University.

B. Distinguished Service Award:

Distinguished Service Awards are awarded by the Board of Governors on the basis of distinguished contributions to Manitoba in areas which are of major interest to the University of Manitoba, and/or which are directly associated with the University. Examples of backgrounds of individuals who have received awards are: service to profession; service to a particular segment of the community; service through social agencies; service to the University or to a particular faculty; contributions to cultural organizations. Members of the staff of the University are not eligible for the award. A citation is read and a medal presented to recipients at Convocation.

For awards to be presented at Spring Convocation, nominations should be received by March 1, 2000.

C. Peter D. Curry Chancellor's Award.

The Peter D. Curry Chancellor's Award is awarded to individuals who have made distinct contributions to University development and/or governance. Staff members and members of the community are eligible for the award. Nominations should be received by March 1, 2000. Recipients of the award will designate $2,000 from the Award Fund for use by a unit (e.g. faculty, school, library), for support of a University program or for the artistic and cultural enrichment of the University. An award certificate and medal is also presented at May Convocation.

D. Distinguished Professor.

Distinguished Professor nominations will not be solicited for 1999/2000.

Nominations for all of the above should be sent to: Bev Sawicki, University Secretary, 311, Administration Building.

cc. Members, Board of Governors,
    Members of Senate.
REPORT

of the

ADMISSION APPEALS COMMITTEE

On August 4th, 1989 the Committee heard an appeal from an applicant for admission to the Faculty of Medicine who was rejected because she failed to secure a sufficient score in a section of the MCAT exam. The appellant alleged that score was not indicative of her true ability because of some personal difficulties she encountered in writing the exam. She also claimed that other relevant factors had not been given sufficient weight in evaluating her application. The Committee denied the appeal. In its view the Faculty of Medicine had processed her application fairly and in accordance with its rules and regulations.

The second appeal (which was re-heard on September 21) was from the decision of the Faculty of Law not to accept the appellant as a transfer student into second year law. The appeal was chaired by Vice-Chairperson, Associate Dean A. Gerhard. The Committee denied the appeal. The appellant did not meet the Faculty's requirements for transfer students.

On August 24 the Committee heard an appeal from an applicant for admission to the Faculty of Medicine. The appellant alleged that a variety of distractions had adversely impacted on her performance during her interview for admission in the Special Consideration Category. The Committee denied the appeal. It concluded that in spite of some distractions the interview process was conducted with reasonable fairness.

After the disposition of the appeal from the Faculty of Law that was heard on August 4, it was discovered that the formal reconsideration procedures in the Faculty, that are a prerequisite to any appeal to the Senate Admission Appeals Committee, had not been followed. The student petitioned the Faculty for a formal reconsideration. The Faculty of Law reconsidered the matter on September 1 and confirmed its original decision. The student appealed again to the Admission Appeals Committee. The Committee, chaired by Acting Chairperson Dr. James Deen, heard the appeal on September 21. The appeal was rejected. The Committee held that any procedural irregularities had been corrected by the formal reconsideration on September 1, the appellant had been given a fair hearing and his transfer application did not satisfy the requirements of the Faculty of Law.

Respectfully submitted,

Professor Philip H. Osborne
Faculty of Law,
Chairperson, Admission Appeals Committee
2. That the current ceiling on allowable transfer credits for students with previous degrees entering the Faculty of Nursing be removed and replaced with the minimum residence requirements of the University of Manitoba, namely two years or 67 credit hours.

Respectfully submitted,

Dr. D.R. Morphy, Acting Chair,
Senate Committee on Admissions

Terms of reference: Senate Handbook (revised 1992), pp. 10.6 - 10.8

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
The changes to the Science admission requirements are consistent with our proposed program changes. Our aim is to maintain science requirements as part of the program, but to increase options for students in relation to the science courses they may choose.

Reduction in the English requirement for admission for transfer students is an acknowledgement of changes in programming in universities, which allow students to take three credit English courses as opposed to being restricted to six credit English courses.

II. **Transfer Students who have a Degree:**

At the May 6, 1999 Council Meeting, the Faculty of Nursing passed the following motion:

"That the current maximum transfer credits allowed for students with a previous degree, entering the Faculty of Nursing, be removed. Students are required to meet the minimum residence requirements of the University of Manitoba. (2 years - 67 cr. hrs.)"

**Current regulations state:**

a. Students may transfer a maximum of 42 credit hours from a previous degree.

b. Advance standing will be considered for courses completed within the last 10 years.

c. Undergraduate students with less than 24 credit hours are ranked and selected on the basis of the required high school criteria.

The motion reflects a change in item "a." A statement of minimum expectation is preferred. This allows more flexibility in considering the various ways students may have completed the necessary substantive content required for the Bachelor of Nursing Degree. Items "b" and "c" will remain.

WC:ms

c.c. Dr. David Gregory
THE FACULTY OF AGRICULTURAL AND FOOD SCIENCES COUNCIL BY-LAW

This by-law is supplementary to the Faculty and School Council General By-Law and Department Council By-Laws currently approved by Senate.

I  FACULTY COUNCIL

1. Membership

In addition to those persons provided for in the General By-Law, the Faculty Council of Agricultural and Food Sciences (hereafter referred to as Faculty Council) shall be composed of:

a) Part-time Professors, Associate Professors, Assistant Professors and Lecturers holding academic rank in the faculty who have the major responsibility in the teaching of at least one academic course in the degree or diploma program,

b) the Faculty Librarian,

c) the Senior Stick, the Vice-Stick, the Senior Treasurer, the Secretary and the Diploma Representative on the Council of the Faculty of Agricultural and Food Sciences Students' Organization (F.A.S.O.),

d) one graduate student representative selected by the Executive of the Graduate Students Association for a one year renewable term starting June 1. This representative will be registered in a graduate program in one of the departments of the faculty,

e) two support staff members. At a meeting convened by the Associate Dean (Academic) or designate, one member shall be elected by and from office staff, and one member elected by and from non-office staff. The term shall be one year starting June 1.

2. Meetings

a) There shall be at least four regular meetings of Council during each academic year.

b) Meetings shall be called by the Dean on his/her own motion or at the written request of any ten members of Council.

c) At least five working days written notice shall be given of regular council meetings and at least twenty-four hours' notice for any special Council meeting.

d) The Dean (or designate) shall preside at all meetings of Council subject to the right of the President to take the Chair at any time.
IV RULES

1. Standing Rules

The Council may enact or amend standing rules and procedures for conduct of the affairs of the faculty by a majority vote of those members of Council present and voting at a meeting of Council provided that five days' notice of the proposed enactment or amendment is given.

2. Rules of Order

Meetings of Council shall be governed by the rules of procedure adopted by Senate except where the standing rules of Council provide otherwise.
2. Selection of Undergraduate Student Representatives
   a) One of the student representatives on the Faculty Council shall be the Senior Stick of the Faculty.
   b) The method of selection of the other student representatives, other than the Senior Stick/Vice Stick, and the BPRN President, shall be at the discretion of the University of Manitoba Nursing Student's Association, subject, however, to the condition that each school year shall be represented.
   c) The Graduate Student shall be selected from the Graduate Student Association, Department of Nursing, University of Manitoba.

2. Selection of Undergraduate Student Representatives

3. Limitations on Participation of Members
   a) The Director of Student Records, or his/her representative, shall be a non-voting member of the Faculty Council.
   b) The student representatives on the Faculty Council shall have full status.

3. Meetings
   a) Meetings of the Faculty Council shall be called by the Dean of the Faculty and will occur at least twice per year.
   b) At least five days written notice shall be given of meetings of the Faculty Council.
   c) A quorum of the Faculty Council shall be one-half of tenure-tenured-track and twelve non-tenure-tenured-track/full-time faculty members.
   d) The presiding officer at all meetings of the Faculty Council shall be the Dean or his/her designee.
   e) A written agenda for the meeting shall be circulated at least two days prior to the meeting of the Faculty Council.
   f) Minutes of the meeting will be circulated at least two weeks prior to the next meeting.
   g) Special meetings may be called by the Dean on his/her own motion or at the written request of any six members of the Faculty Council, on 24 hours notice, provided that the purpose of the meeting is disclosed in the notice.

4. Powers to Recommend

In addition to the powers provided in the General Bylaw, the Council of the Faculty of Nursing shall have the power to make such recommendations to such persons or bodies as it
THE SCHOOL OF MUSIC COUNCIL BY-LAW

This by-law is supplementary to the Faculty and School Council General By-law, a copy of which shall be appended hereto.

1. SCHOOL COUNCIL

1. Membership

In addition to those persons provided for in the Faculty and School Council General By-law, the School Council of the School of Music shall be composed of:

(a) All part-time members of the School of Music, with an annual salary;

(b) Two additional students registered in the faculty making a total of five students.

2. Selection of Student Representatives

(a) One of the student representatives on the School Council shall be the Senior Stick of the School.

(b) The method of selection of the other student representatives shall be in the discretion of the Senior Stick in consultation with the Student Council of the School of Music.

3. Limitations on Participation of Members

The student representatives on the School Council shall have full status including the right of membership on committees, with the following exceptions:

(a) Student representatives shall be excluded from those portions of School Council or Committee meetings considering individual applications for admission, probation or permission to repeat.

(b) Student representatives shall be excluded from those portions of School Council or Committee meetings considering the content of exams and examination results or matters arising therefrom.

(c) Student representatives shall be excluded from those portions of School Council or Committee meetings considering the exercise of School Council discretion with respect to the awarding of scholarships, prizes and fellowships (but only in so far as such awards are being made or discretion is being exercised on the basis of academic ability).

(d) Student representatives shall not participate in the nomination, election or removal of representatives from the School of Music to the University of Manitoba Senate.
Report of the Senate Committee on Curriculum and Course Changes: Part B - Submitted to Senate for Ordinary Debate

Preamble

This part of the report contains observations and recommendations on course change proposals for units where the net increase is more than nine credit hours. The Senate Planning and Priorities Committee was provided with copies of these proposals as well.

Observations

1. Faculty of Arts

Department of Anthropology

Course 076.320 History of Anthropology will be deleted in order to accommodate changes in staffing and to allow it to be taught in a more condensed format. It is being re-introduced as 076.3XX History of Anthropology.

Course 076.336 Ethnohistory of Sub-Saharan Africa (076.336 Ethnohistoire de l'Afrique sous-saharienne) is being deleted in order to reflect changes in department policy concerning the organization of paired area courses. The course that should be taken first will be offered at the second year level, while that offered second will be at the third year level. Accordingly, 076.2XX Ethnohistory of Sub-Saharan Africa (076.2XX Ethnohistoire de l'Afrique sous-saharienne) will be introduced.

Similarly, 076.359 Peoples and Cultures of Contemporary Latin America is being deleted in order to reflect changes in departmental policy concerning the organization of paired area courses. It will be re-introduced as 076.2XY Peoples and Cultures of Contemporary Latin America.

Course 075.2AA Prehispanic Cultures of Mexico is being introduced to introduce students to the long prehistory of the Mexican people, to enrich the archaeological and Latin American components of the anthropology program and to accommodate the needs of the "Term in Mexico" option.

Course 076.2BB Anthropological Perspectives on Contemporary Mexico will be offered in order to introduce students to the contemporary social, cultural and economic problems of Mexico, to expand the cross-cultural knowledge central to anthropology and to accommodate the needs of the "Term in Mexico" option.

Five courses are being introduced as a result of program development and enhancement associated with the appointment of a new staff member with expertise in biological anthropology: 076.3XY Demography of Past Populations, 076.3XZ Forensic Anthropology, 076.3YY Human Growth and Variation, 076.4AA Selected Topics in Anthropology, and 076.4YY The Anthropology of Aging.

Course 076.3YX Anthropological Perspectives on Globalization and the World-System will be offered in order to introduce new material into the anthropology program in keeping with the societal and global changes that are reflected in contemporary cultural anthropology.

Course 076.293 Archaeology of a Selected Area will be modified so that the description reflects changes in course content.
3. **Faculty of Science**

**Environmental Science Programme**

Students, employers and academics have clearly expressed the need for the Environmental Science Programme to offer students wide ranging field experiences in such areas as environmental assessment, soil, water, and air quality sampling, use of analytical instrumentation, and site characterization. It is essential that students gain experience measuring and quantifying their real world environment, as well as interpreting and analyzing their results. The establishment of generic topics courses would allow the programme to vary offerings depending on the expertise available and needs of a particular subgroup of students, and the courses could be used where appropriate in Environmental Science Programme Depth Packages. The following courses are being introduced: 128.3XY Field Topics in Environmental Science I, 128.3XZ Extended Field Topics in Environmental Science I, 128.4XY Field Topics in Environmental Science II and 128.4XZ Extended Field Topics in Environmental Science II.

Course 128.4AB Project in Environmental Science is being introduced in response to requests from Environmental Science students and faculty for the opportunity for directed studies in an aspect of environmental sciences. Until now, there has been no opportunity through the Environmental Science Programme itself. The establishment of a generic course will allow the programme to offer this opportunity to students within the Environmental Science Programme, and the course can be used where appropriate in Environmental Science Programme Depth Packages.

**Recommendations**

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

**Faculty of Arts**

Department of Anthropology  
Department of Asian Studies

**School of Medical Rehabilitation**

Physical Therapy Programme

**Faculty of Science**

Environmental Science Programme

Respectfully submitted,

Dean B. L. Dronzek, Chair  
Senate Committee on Curriculum and Course Changes

applied in analysis of long term changes in the demographic patterns of anthropological populations. Pre-requisite: 076.121 or written consent of instructor.

076.3XZ Forensic Anthropology (C) +3
This course provides the theory, methods, and techniques for forensic identification of human skeletal remains, including estimation of sex, age-at-death, stature, population affinities and features of personal biology. The laboratory component of this course, where students work with actual human skeletal remains, is a major component. Pre-requisite: 076.282.

076.3YY Anthropological Perspectives on Globalization and the World-System (3)
An anthropological perspective on the modern world-system and the expansion of capitalism into peripheral areas of the world; the transformation of indigenous societies and cultures; the rise of ethnic conflict, protest and resistance; and a comparative examination of selected global and transnational processes. Pre-requisite: 076.239 or written consent of instructor.

076.3YY Human Growth and Variation (C) +3
An examination of variation in human body form and composition in the context of normal growth and development viewed in an evolutionary perspective. Pre-requisite: 076.290 or written consent of instructor.

076.4AA Selected Topics in Biological Anthropology (C,E) +3
Topics in biological anthropology which will vary depending on the needs of students and the interest of the instructor. Pre-requisite: written consent of Instructor or head.

076.4YY The Anthropology of Aging (C) +3
This course provides an in-depth examination of the biological foundations of human aging and senescence in the context of evolutionary theories of longevity. Pre-requisite: written consent of instructor or head.

Course to be modified:

076.293 Archaeology of a Selected Area (D) (3)
Detailed examination of the archaeology of a geographical area that is of current interest to faculty and students. The areas will rotate annually and will include but not be limited to the Caribbean, Europe, the Northwest Coast, Canada, the Arctic and the sub-Arctic. Students may not hold credit for both 076.293 and the former 076.323. Pre-requisite: 076.120, 076.121 or written consent of instructor.

NET CHANGE IN CREDIT HOURS: +18
Courses to be deleted:

099.091 Introduction to Chinese (Mandarin) -6
099.092 Introduction to Japanese -6
099.093 Basic Sanskrit -6
099.094 Basic Hindi-Urdu -6
099.101 Intermediate Chinese (Mandarin) -6
099.102 Intermediate Japanese -6
099.103 Intermediate Sanskrit -6
099.104 Intermediate Hindi-Urdu -6
099.201 Advanced Chinese (Mandarin) -6
099.212 Advanced Japanese -6
099.214 Advanced Hindi-Urdu -6

Courses to be introduced:

099.1AA Introduction to Chinese (Mandarin) +6
An introduction to modern vernacular (Mandarin) Chinese in spoken and written form. Grounding in pronunciation, basic grammar, vocabulary, and some written characters. This course is for students with no previous knowledge of Chinese. Students with a knowledge of Chinese characters, regardless of dialect, may not normally enroll. Students may not hold credit for both 099.1AA and the former 099.091. Not open to students who have previously obtained credit for the former 099.101, the former 099.201, or 086.236, 099.2AA, 099.3AA, or who have obtained Grade 12 Chinese in Canada or abroad. Prerequisite: written consent of instructor.

099.1BB Introduction to Japanese +6
An introduction for non-Japanese speakers to Hiragana, Katakana, and some Kanji. Students will be taught pronunciation, grammar, vocabulary, and about 250 written characters. Students may not hold credit for both 099.1BB and the former 099.092. Not open to students who have previously obtained credit for the former 099.102, the former 099.212, or 099.2BB, 099.3BB, or who have obtained Grade 12 Japanese in Canada or abroad.

099.1CC Introduction to Basic Sanskrit +6
Students will first learn the Devanagari script then proceed to reading, writing, conversation, grammar and vocabulary. Students may not hold credit for both 099.1CC and the former 020.050, or the former 099.693. Not open to students who have previously obtained credit for the former 099.103 or 099.2CC.

099.1DD Basic Hindi-Urdu +6
Training in conversation, reading and writing of modern standard Hindi and some elements of Urdu. Students will learn to read and write the Devanagari script, and learn the basic grammar of the language. Students may not hold credit for both 099.1DD and the former 020.091 or the former 099.094. Not open to students who have previously obtained credit for the former 099.104 or the former 099.214 or 099.2DD or 099.3DD.

099.2AA Intermediate Chinese (Mandarin) +6
Continues the introduction of basic vocabulary, grammatical structures, and written characters. Emphasis will be given to the development of aural/oral skills. Students may not hold credit for both 099.2AA and the former 099.101. Not open to students who have previously obtained credit for the
the former 099.201. Not open to students who have previously obtained credit for 099.238. Pre-requisite: 099.2AA or the former 099.101 or written consent of instructor.

099.3BB Advanced Japanese +6
This course is designed for those who have taken 099.2BB (the former 099.102) Intermediate Japanese or have basic linguistic skills in Japanese and wish to improve their ability in the Japanese language previously acquired. Students may not hold credit for both 099.3BB and the former 099.212. Pre-requisite: 099.2BB, or the former 099.102, or written consent of instructor.

099.3DD Advanced Hindi-Urdu +6
Students read texts that are in accordance with their interests and abilities. Class discussion is held exclusively in Hindi-Urdu. Students may not hold credit for both 099.3DD and the former 099.214. Pre-requisite: 099.2DD or 099.104 or written consent of instructor.

099.3XX Masterpieces of Asian Literature +6
A study of selected major, and influential works of Asian literature in English translation. Significant works in a variety of genres from the classical and modern periods of India, China, Japan, Korea, and South East Asia will be introduced. Pre-requisite: one year of University study and (normally) senior matriculation standing in English.

099.3XY Advanced Mandarin Comprehension +6
A further level of training intended for students who have completed 099.236 Mandarin Comprehension (6). There will be further training in oral/aural proficiency while at the same time emphasis will be placed on written expression. Basic English/Chinese translation skills will also be introduced. Pre-requisite: 099.236, or 099.301 or written consent of instructor.

Courses to be modified:

099.211 East Asian Civilization (6)
An interdisciplinary study of China and Japan from the ancient to the contemporary period, focusing on geographic, religious, historic, sociological and political developments. Students may not hold credit for both 099.211 and 099.21J or 099.2KK.

099.236 Mandarin Comprehension (6)
For students with a reading and speaking knowledge of a Chinese dialect other than standard Mandarin. Students will learn the fundamentals of Mandarin phonetics and usage, then proceed to increase their fluency in directed conversation sessions using modern Chinese literature as the major subject of discussion. Not open to students who have previously obtained credit in 099.1AA (the former 099.691), 099.2AA (the former 099.101), or 099.3AA (the former 099.201). Pre-requisite: written consent of instructor.

NET CHANGE IN CREDIT HOURS: +24
### List A: Courses Acceptable for Asian Studies Credit

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>076.245</td>
<td>Anthropology: Ethnology of China</td>
<td></td>
</tr>
<tr>
<td>076.246</td>
<td>Geography</td>
<td></td>
</tr>
</tbody>
</table>

**History**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>011.309</td>
<td>Studies in Asian History</td>
<td>3</td>
</tr>
<tr>
<td>011.358</td>
<td>Topics in Recent World History I (M)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>[Acceptable for credit only when the topic is Asia-related]</td>
<td></td>
</tr>
<tr>
<td>011.396</td>
<td>China, 1911 to the Present</td>
<td>3</td>
</tr>
</tbody>
</table>

**Interdisciplinary - Asian Languages**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>099.091*</td>
<td>Introduction to Chinese (Mandarin)</td>
<td>6</td>
</tr>
<tr>
<td>099.092*</td>
<td>Introduction to Japanese</td>
<td>6</td>
</tr>
<tr>
<td>099.093*</td>
<td>Basic Sanskrit</td>
<td>6</td>
</tr>
<tr>
<td>099.094*</td>
<td>Basic Hindi-Urdu</td>
<td>6</td>
</tr>
<tr>
<td>099.101*</td>
<td>Intermediate Chinese (Mandarin)</td>
<td>6</td>
</tr>
<tr>
<td>099.102*</td>
<td>Intermediate Japanese</td>
<td>6</td>
</tr>
<tr>
<td>099.103*</td>
<td>Intermediate Sanskrit</td>
<td>6</td>
</tr>
<tr>
<td>099.104*</td>
<td>Intermediate Hindi-Urdu</td>
<td>6</td>
</tr>
<tr>
<td>099.1AA</td>
<td>Introduction to Chinese (Mandarin)</td>
<td>6</td>
</tr>
<tr>
<td>099.1BB</td>
<td>Introduction to Japanese</td>
<td>6</td>
</tr>
<tr>
<td>099.1CC</td>
<td>Basic Sanskrit</td>
<td>6</td>
</tr>
<tr>
<td>099.1DD</td>
<td>Basic Hindi-Urdu</td>
<td>6</td>
</tr>
<tr>
<td>099.201*</td>
<td>Advanced Chinese (Mandarin)</td>
<td>6</td>
</tr>
<tr>
<td>099.212*</td>
<td>Advanced Japanese</td>
<td>6</td>
</tr>
<tr>
<td>099.214*</td>
<td>Advanced Hindi-Urdu</td>
<td>6</td>
</tr>
<tr>
<td>099.234</td>
<td>Special Studies in Epic and Pauranic Sanskrit I</td>
<td>3</td>
</tr>
<tr>
<td>099.235</td>
<td>Special Studies in Epic and Pauranic Sanskrit II</td>
<td>3</td>
</tr>
<tr>
<td>099.236</td>
<td>Mandarin Comprehension</td>
<td>6</td>
</tr>
</tbody>
</table>
2. **School of Medical Rehabilitation**

**Physical Therapy Program**

Courses to be deleted:

**Effective 2000-2001**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>068.148</td>
<td>Basic Clinical Sciences</td>
<td>-6</td>
</tr>
<tr>
<td>068.171</td>
<td>Physical Therapy Management 1A</td>
<td>-3</td>
</tr>
<tr>
<td>068.172</td>
<td>Physical Therapy Management 1B</td>
<td>-7</td>
</tr>
<tr>
<td>068.270</td>
<td>Fundamentals of Physical Therapy Management of Musculoskeletal Disorders</td>
<td>-5</td>
</tr>
<tr>
<td>068.271</td>
<td>Orthopedic Assessment and Management of Limbs and Spine</td>
<td>-4</td>
</tr>
<tr>
<td>068.273</td>
<td>Human Performance</td>
<td>-3</td>
</tr>
<tr>
<td>068.274</td>
<td>Cardiorespiratory Clinical Education</td>
<td>-6</td>
</tr>
<tr>
<td>068.288</td>
<td>Musculoskeletal Clinical Education</td>
<td>-6</td>
</tr>
<tr>
<td>068.290</td>
<td>Fundamentals of Physical Therapy Management</td>
<td>-3</td>
</tr>
</tbody>
</table>

**Effective 2001-2002**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>068.371</td>
<td>Directed Studies - Module A</td>
<td>-3</td>
</tr>
<tr>
<td>068.380</td>
<td>Summer Internship I</td>
<td>-5</td>
</tr>
<tr>
<td>068.391</td>
<td>Summer Internship II</td>
<td>-5</td>
</tr>
</tbody>
</table>

Courses to be introduced:

**Effective 2000-2001**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>068.1AA</td>
<td><strong>Basic Clinical Sciences</strong></td>
<td>+3</td>
</tr>
<tr>
<td></td>
<td>A lecture and tutorial course covering basic physiology related to membrane,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>muscle, pain and the cardiovascular, respiratory, endocrine, and immune</td>
<td></td>
</tr>
<tr>
<td></td>
<td>systems. 44 hours.</td>
<td></td>
</tr>
<tr>
<td>068.1BB</td>
<td><strong>Physical Therapy Management</strong></td>
<td>+10</td>
</tr>
<tr>
<td></td>
<td>A theory and practical course on applying physical therapy techniques to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>patients with cardio and respiratory disorders. 166 hours.</td>
<td></td>
</tr>
<tr>
<td>068.1CC</td>
<td><strong>Rehabilitation Exercise I</strong></td>
<td>+6</td>
</tr>
<tr>
<td></td>
<td>Consists of lectures, tutorials, and practical sessions focused on topics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of exercise physiology, fitness testing and training and rehabilitation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>exercise skills related to the healthy adult and selected patient</td>
<td></td>
</tr>
<tr>
<td></td>
<td>populations. 105 hours.</td>
<td></td>
</tr>
<tr>
<td>068.1DD</td>
<td><strong>Cardiorespiratory Clinical Education</strong></td>
<td>+8</td>
</tr>
<tr>
<td></td>
<td>Consists of a period of clinical practice related to the management of</td>
<td></td>
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<tr>
<td></td>
<td>cardiorespiratory conditions. Course evaluated on a pass/fail basis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>500 hours.</td>
<td></td>
</tr>
<tr>
<td>068.2AA</td>
<td><strong>Physical Therapy Management of Musculoskeletal Disorders</strong></td>
<td>+8</td>
</tr>
<tr>
<td></td>
<td>A theory and practical course on physical therapy management of patients</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with specific musculoskeletal disorders. 149 hours.</td>
<td></td>
</tr>
</tbody>
</table>
## Summary of Proposed Curriculum Changes

<table>
<thead>
<tr>
<th>Courses Deleted</th>
<th>Courses Introduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>68.146 Basic Clinical Sciences (6)</td>
<td>68.1AA Basic Clinical Sciences (3)</td>
</tr>
<tr>
<td>68.171 Physical Therapy Management IA (1)</td>
<td>68.1BB Physical Therapy Management (1)</td>
</tr>
<tr>
<td>68.172 Physical Therapy Management IB (7)</td>
<td>68.1CC Rehabilitation Exercise I (6)</td>
</tr>
<tr>
<td>68.274 Cardiorespiratory Clinical Education (8)</td>
<td>68.1DD Cardiorespiratory Clinical Education (8)</td>
</tr>
<tr>
<td>68.270 Fundamentals of Physical Therapy Management of Musculoskeletal Disorders (5)</td>
<td>68.2AA Physical Therapy Management of Musculoskeletal Disorders (5)</td>
</tr>
<tr>
<td>68.277 Orthopedic Assessment and Management of Limbs and Spine (4)</td>
<td>68.2BB Orthopedic Assessment and Management I (6)</td>
</tr>
<tr>
<td>68.273 Human Performance (3)</td>
<td>68.2CC Rehabilitation Exercise II (2)</td>
</tr>
<tr>
<td>68.288 Musculoskeletal Clinical Education (8)</td>
<td>68.2DD Musculoskeletal Clinical Education (10)</td>
</tr>
<tr>
<td>68.290 Fundamentals of Physical Therapy Management (3)</td>
<td>68.2EE Orthopedic Assessment and Management II (5)</td>
</tr>
<tr>
<td>68.390 Summer Internship I (5)</td>
<td>68.3AA Summer Internship (8)</td>
</tr>
<tr>
<td>68.391 Summer Internship II (5)</td>
<td>68.3BB Directed Studies Module A (3)</td>
</tr>
<tr>
<td>68.371 Directed Studies - Module A (3)</td>
<td>68.3BB Directed Studies Module A (3)</td>
</tr>
<tr>
<td><strong>Total credit hours = 69</strong></td>
<td><strong>Total credit hours = 68</strong></td>
</tr>
</tbody>
</table>
# ENVIRONMENTAL SCIENCE PROGRAM

## Program Change

2000 - 2001

### Proposed Program:

**ENVIRONMENTAL SCIENCE PROGRAM (125)**

Director: M.R. Utter

General Office: 231 MacKay Hall  Telephone: (204) 777-9137

The Faculty of Science offers an interdisciplinary program leading to a B.Sc. Major degree in Environmental Science.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>UNIVERSITY I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FOUR YEAR</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MAJOR</strong></td>
<td>128.100, 002.120, 002.131, 007.144*</td>
<td>128.250, 128.271, 007.237 or 007.237</td>
<td>128.310, 128.320</td>
<td>128.410</td>
</tr>
<tr>
<td><strong>120 CREDIT HOURS</strong></td>
<td>006.02, 013.103*</td>
<td>003.100 and 003.200</td>
<td>007.213</td>
<td></td>
</tr>
<tr>
<td>Plus 5 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A &quot;W&quot; course and an &quot;M&quot; course must be taken in Year I or II</td>
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</tr>
<tr>
<td>Plus a &quot;depth package&quot; in a defined area of Environmental Science, approved by the Director, consisting of 27 credit hours of 300 (or higher) level courses with a minimum of 12 credit hours at the 300 or 400 level</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus 007.235, and one of: 136.120, 136.130*, 136.150, 076.101, 076.126</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UNIVERSITY I</strong></td>
<td>128.100</td>
<td>129.200, 128.212</td>
<td>128.350, 128.369</td>
<td>128.410</td>
</tr>
<tr>
<td><strong>MAJOR</strong></td>
<td>006.02, 013.103*</td>
<td>006.120, 006.120*</td>
<td>003.100, 003.200</td>
<td>007.213</td>
</tr>
<tr>
<td><strong>COOPERATIVE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OPTION 120 CREDIT HOURS</strong></td>
<td>007.144*</td>
<td>007.213</td>
<td>007.213</td>
<td></td>
</tr>
<tr>
<td>Plus 5 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A &quot;W&quot; course and an &quot;M&quot; course must be taken in Year I or II</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus a &quot;depth package&quot; in a defined area of Environmental Science, approved by the Director, consisting of 27 credit hours of 300 (or higher) level courses with a minimum of 12 credit hours at the 300 or 400 level</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Plus 007.235, and one of: 136.120, 136.130*, 136.150, 076.101, 076.126</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UNIVERSITY I</strong></td>
<td>128.100</td>
<td>129.200, 128.212</td>
<td>128.350, 128.369</td>
<td>128.410</td>
</tr>
<tr>
<td><strong>MAJOR</strong></td>
<td>006.02, 013.103*</td>
<td>006.120, 006.120*</td>
<td>003.100, 003.200</td>
<td>007.213</td>
</tr>
<tr>
<td><strong>COOPERATIVE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OPTION 120 CREDIT HOURS</strong></td>
<td>007.144*</td>
<td>007.213</td>
<td>007.213</td>
<td></td>
</tr>
<tr>
<td>Plus 5 credit hours from the Faculty of Arts, which may include the &quot;W&quot; course</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>A &quot;W&quot; course and an &quot;M&quot; course must be taken in Year I or II</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus a &quot;depth package&quot; in a defined area of Environmental Science, approved by the Director, consisting of 27 credit hours of 300 (or higher) level courses with a minimum of 12 credit hours at the 300 or 400 level</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus 007.235, and one of: 136.120, 136.130*, 136.150, 076.101, 076.126</td>
<td></td>
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</tbody>
</table>

**NOTE:** The Cooperative Option is a five-year program.

<table>
<thead>
<tr>
<th>THREE YEAR GENERAL</th>
<th>Minimum 12 credit hours from: 128.217, 128.300, 128.310, 128.356, 128.409, 128.410, 128.421, and 128.422</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MINOR</strong> (For students in other faculty)</td>
<td>128.100</td>
</tr>
</tbody>
</table>

*The Minor in Environmental Science is subject to the approval of the Council on Post-Secondary Education.

*001.123, 007.114 or 007.124 may be used in lieu of 007.144. Students who may wish to proceed to a "depth package" in Geological Sciences are advised to complete either 007.113 or 007.144 and one of: 007.123, 007.123, 007.124 or 007.124.

*006.020 and 016.017 may be used in lieu of 006.020 and 016.017.

*013.103 may be taken in lieu of 136.110, 136.110, 136.110 or 136.110 may be taken in place of 136.110.

*Other courses may be taken at the approval of the Program Director.

The University written English and mathematics requirements must be successfully completed within the first 60 credit hours of this program. Completion of these credit hours from: 136.110, 136.150, 136.150, or 001.123 is a condition for this program.

**IMPORTANT NOTE:** The Four-Year Major program need not be completed in the manner presented in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide only which students may plan their programs with a view to satisfying the prerequisites of the required courses and facilitating scheduling of courses.
Report of the Senate Planning and Priorities Committee on Undergraduate Changes with Resource Implications or Course Additions Beyond Nine Credit Hours

The SPPC has the responsibility to report to Senate on curriculum changes with significant resource implications including additions to departmental curricula of more than nine credit hours. The committee reviewed submissions from the Faculties of Arts, Medicine and Science.

A. FACULTY OF ARTS

The Faculty of Arts has recommended changes to a variety of programs. These are listed alphabetically below.

1. Department of Anthropology

Preamble

The Department of Anthropology is removing 18 credit hours and adding 36 credit hours to its program for a net change of 18 credit hours.

Observations

1. The Department is restructuring its programs by replacing six-credit hour courses.

2. The Department has an exchange program with the Universidad de America in Mexico in which students spend one term at the other University. Two 3-credit hour courses are being introduced that will be taught at the Universidad de America and be supported by student enrollment.

3. The Department has recently hired a biological anthropologist and is introducing four 3-credit hour courses based on the new expertise in the department.

4. The Department is introducing one 3-credit hour course that is designed to be part of the proposed Interdisciplinary Program on the Global Political Economy.

Recommendation

1. That Senate approve and forward to the Board of Governors the recommendation from the Faculty of Arts to adopt the course proposal changes of the Department of Anthropology.

2. Asian Studies Program

Preamble

The Asian Studies Program is renumbering eleven 6-credit hour courses and introducing one 6-credit hour and four 3-credit hour courses.

Observations

1. The language courses in the Asian studies program are to be renumbered to bring them into line with numbering practices in the rest of North America.

2. The proposed courses in History, Culture and Society in Chinese Film and Women in Chinese Film have been offered as Topics courses and have been quite popular with students.
2. An internal review of the Environmental Science Program identified the need to educate students in the field setting. This will ensure the environmental context within which the program is being delivered and was deemed valuable by both students and potential employers of the graduates of the program.

3. The Environmental Science Program is an interdisciplinary program. On an ongoing basis, the financial and human resource commitment for the proposed courses will be integrated into the Departments that already participate in the Program.

4. Startup costs for initial course development are being provided by the Program Development Fund.

Recommendation

5. That Senate approve and recommend to the Board of Governors the Faculty of Science's proposal for the introduction of the five courses 128.4AB Project in Environmental Sciences, 128.3XY 128.4XY Field Topics in Environmental Sciences and 128.3ZY 128.4ZY Extended Field Topics in Environmental Sciences.

Respectfully submitted,

Norman Halden, Chair
Senate Planning and Priorities Committee

Terms of Reference: Senate Handbook (Rev. 1993), pp. 10.21/22

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
Anthropology would underscore that “political economy” is integral to anthropological analysis, a point well articulated by Eric Wolf (1982), *Europe and the People Without History*. While the legacy of Anthropology is to study local, small, and even isolated units, the discipline has come to emphasize connectedness well before “globalization” became a focus. Anthropology contributes to the GPE Programs specialized insights into societies that have been marginalised and exploited by dominating forces (states, corporations, classes) through mercantilism and capitalism, and through its understanding of production and exchange in a world increasingly dominated by market forces. Anthropology has provided unique insights into communism, rural peasantry, urban squatter settlements, and the interrelationship of class and gender; it has contributed centrally to our understanding of the interrelationship between reciprocity, redistribution, and market exchange, as well as global forces behind petty commodity production, labour migration, the peasant/worker complex, and proletarianization. Finally, Anthropology contributes uniquely through its understanding of gender and kinship, and through its incorporation of symbolism into political economy processes.

**Political Studies** is an essential part of the GPE programs. Political Studies involves the study of how power and influence are allocated and used in political systems, both domestic and international. Politics, then, comprises the manner in which societies organized themselves into coherent groups, where rules, rights, and responsibilities are appropriated and distributed among individuals. **Global, or International, Political Economy** represents an entire subfield of International Relations, which is itself an integral part of Political Studies. In a changing international environment, it is key that students be exposed to the processes and structures that mark international relations and political studies in the more specific context of the intersection of politics and economics.

**Economics** has a central role to play in the study of the global political economy. In the contemporary world of transnational corporations, integrated financial markets, regional economic blocs, trade and investment agreements and rising economic interdependence, economic policy and economic institutions must increasingly be understood not only within the national context, but also within the global context. But understanding the global context requires an understanding not only of the economies of other countries and regions, but also of the social, political and historical factors that have shaped their economies and the relations between them and ourselves. This is what the GPE programs are designed to provide.
will provide an area of concentration in the subject area of GPE in addition to exposure to several disciplines. The three year program provides an interdisciplinary introduction to the fundamental issues on the topic of global political economy. The course selection is essentially identical to the first three years of the four year advanced degree course requirements which are listed later in this proposal. This common core of required courses allows the student to begin this program of study without deciding at the outset whether it will be the three or four year program.

**GLOBAL POLITICAL ECONOMY**  
**B.A. (GENERAL) DEGREE**  
**TABLE OF REQUIRED COURSES**

<table>
<thead>
<tr>
<th></th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>TOTAL Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ANTHROPOLOGY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ECONOMICS</strong></td>
<td>18.121(3) &amp; 18.122(3) or 18.120(6)</td>
<td>18.262(6)</td>
<td>18.2XX(3)</td>
<td>18.2XY(3)</td>
</tr>
<tr>
<td><strong>HISTORY</strong></td>
<td>12 credit hours from 11.137(3), 11.138(3), 11.238(6), 11.150(6), 11.272(6)</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>POLITICAL STUDIES</strong></td>
<td>19.150(6)</td>
<td>19.253(6)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>SOCIOLOGY</strong></td>
<td>77.120(6)</td>
<td>77.369(3) or 77.347(3)</td>
<td>9</td>
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</tr>
</tbody>
</table>

60 Hours
## GLOBAL POLITICAL ECONOMY
### B.A. (ADVANCED) DEGREE
### TABLE OF REQUIRED COURSES

<table>
<thead>
<tr>
<th></th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>TOTAL Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthropology</strong></td>
<td></td>
<td>76.239(6)</td>
<td>75.3YY(3)</td>
<td>76.2XY(3)</td>
<td>12</td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td>18.121(3) &amp; 18.122(3) or 18.120(6)</td>
<td>18.262(6)</td>
<td>18.2XX(3)</td>
<td>18.2XY(3)</td>
<td>18</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td></td>
<td></td>
<td>12 credit hours from 11.123(3), 11.133(3), 11.228(5), 11.250(3), 11.25(3), 11.272(6)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Political Studies</strong></td>
<td>19.150(6)</td>
<td></td>
<td>19.383(6)</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Sociology</strong></td>
<td></td>
<td>77.120(6)</td>
<td>77.229(6) and 77.369(3) or 77.347(3)</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Interdisciplinary</strong></td>
<td></td>
<td>99.2AA(3)</td>
<td></td>
<td>99.4AA(6)</td>
<td>9</td>
</tr>
</tbody>
</table>

**78 Hours**

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**Recommended Electives of Relevance to the Topic of Global Political Economy**

Clearly this program is highly structured and students have a limited number of hours available for electives. However, faculty members participating in the delivery of this program would like to stress the value of a number of other courses in the Departments of Anthropology, History and Political Studies which, in their opinion are to be very strongly recommended electives, namely:

- **076.122 Cultural Anthropology (A) (3)**
- **011.432 Studies in World History since 1945 (G,M) (6) or 011.358 Topics in Recent World History I (M) (3)**
- **011.358 Topics in Recent World History II (M) (3)**
- **019.253 Elements of Foreign Policy (6) [which is a required course in the B.A. (General) Degree and an elective in the B.A. (Advanced) Degree]**
Recommendation

The Senate Committee on Curriculum and Course Changes recommends that the proposed B.A. (General) degree and the B.A. (Advanced) degree in Global Political Economy, together with the introduction of two new courses, as approved by the Faculty of Arts, be approved by Senate.

Respectfully submitted,

Dean B. L. Bronzek, Chair
Senate Committee on Curriculum and Course Changes

Courses to be introduced:

099.2AA Perspectives on Global Political Economy
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 Co-ordinator.

099.4AA Studies in Global Political Economy
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 Co-ordinator.

NET CHANGE IN CREDIT HOURS: +9

GLOBAL POLITICAL ECONOMY
Co-ordinator: R. Kueneman

8.13.1 Program Information
Major Program
For entry to the Major, the prerequisite is a grade of "C" or better in any 6 hours of credit from the following:
018.120 (6), 077.120 (6), 019.150 (6) and 6 hours of credit from the following: 011.137 (3), 011.138 (3), 011.150 (6), 011.238 (6), 011.272 (6).
If the student has taken more than 6 hours of credit from
the above, then entry to the Major would require an average of 2.00 or better in all courses including only the higher grade of any course that has been repeated and excluding any failed courses.

In order to graduate, a student must have a cumulative GPA of 2.00 or better in courses that are used toward the Major including only the higher grade of any course that has been repeated and excluding any failed course.

Comments of the Executive Committee:
The Executive Committee endorses the report to Senate.
In 1998, the Women’s Studies Program at the University of Winnipeg received COPSE approval for a Four-Year and an Honours degree in Women’s Studies. In order for us to continue to be an equal participant in the coordinated programs in Women’s Studies between the two Universities (in which reciprocal recognition is granted to Women’s Studies courses), we also need to develop these new programs. The University of Winnipeg supports our proposal as is indicated in the attached letter from Dr. Keith Fulton, Coordinator of Women’s Studies at the University of Winnipeg.

Program Descriptions

See the attached chart for an overview of the requirements of the proposed programs.

The Advanced Major

The fourth year of study will allow students to broaden their exposure to feminist theory and practice and deepen their analysis of women’s issues. As indicated in the attached chart, the Advanced Major adds eighteen (18) hours of credit to the requirements for a General Major. Students in the Advanced Major must complete a minimum of twelve (12) credit hours at or above the third-year level to complete their degree.

Advanced Majors will be able to enroll in Practicum in Feminist Organizing, a new 400-level six-credit hour course designed to help students relate theory and practice, and increase their marketability through job experience in the field. This course will draw on the Women’s Studies Program’s established links to the community. With the Faculty of Arts Committee on Cooperative Education, we are also pursuing the possibility of cooperative education in Women’s Studies for our advanced students. The University of Victoria has been very successful with its co-op program in Women’s Studies, and like the practicum, co-op increases student marketability upon graduation.

Single and Double Honours

The Single Honours degree adds thirty (30) hours of credit in Women’s Studies to the requirements for a General Major (30 hours of credit) for a total of 60 hours of credit in Women’s Studies over four years. Students must complete a minimum of twenty-four (24) credit hours at or above the third-year level for this degree. Students pursuing a Double Honours must also complete twenty-four (24) hours of credit at or above the third-year level. They will complete eighteen (18) fewer hours of credit in Women’s Studies to allow for the second honours field.

Central to the Honours programs are the three-credit hour course Advanced Feminist Theory, and the six-credit hour Honours Thesis. These two 400-level courses are required of Single and Double Honours students:

- Advanced Feminist Theory prepares students for graduate school by building on their work in 99.252 Introduction to Feminist Theory. Advanced Feminist Theory will develop students’ abilities to engage the central theoretical debates and tensions in contemporary feminist and critical theory.

- The Thesis, available only to Honours students, will allow each student to engage in a small-scale research project. It is a current practice in the Program for students to develop a research proposal in the required six-credit course in research methodologies.
Just as those appointed in Women's Studies have worked with students from a range of departments, we expect that faculty members who teach List A courses, as well as other members of the academic community involved in feminist scholarship, will occasionally serve as supervisors for honours theses. The good working relationships the Program has established over the last two decades will be as valuable to students in the new Honours Program as they have been to those in the current General Program. In short, because of our recent growth and the unique structure of the Program, the Advanced Major and Honours Program will not require faculty resources beyond our present means.
Report of the Senate Planning and Priorities Committee (SPPC) on the Faculty of Arts' Proposed Interdisciplinary Program in Global Political Economy

Preamble

The Faculty of Arts is proposing to introduce an interdisciplinary program in Global Political Economy leading to either a BA (General) or BA (Advanced).

The Departments of Anthropology, Economics, History, Political Studies, and Sociology are proposing two interdisciplinary degree programs: a BA (General) Degree and a BA (Advanced) Degree in Global Political Economy. They will make use of existing courses dealing with this subject matter with the exception of a new 3-credit course at the 200 level and a new 6-credit course at the 400 level.

Observations

1. The Global Political Economy initiative is a unique approach for the study of international, political, and economic issues at the post-secondary interdisciplinary level. These programs allow students greater exposure to related fields and disciplines and create a meaningful opportunity for the academic development of those interested in a collaborative field of study. The result is a balanced and innovative way to introduce students to the various aspects of global political and economic relations, and an essential marketability for potential graduates.

2. Recommendation 67 c) of the Presidential Task Force on Strategic Planning calls for the development of a proposal for an "interdisciplinary program in global political economy."

3. The Faculty of Arts' Strategic Plan encourages interdisciplinary and collaborative programming and this proposal is a response to that encouragement.

4. The Faculty Council of the Faculty of Arts has agreed to a variation in the degree requirements that stipulates a minor is not required for the proposed programs.

5. The proposed operational budget requires $22,500 annually. The Faculty is prepared to provide $12,000 in start-up funds.

6. A Statement of Intent has been sent to CCPSE and approved by that body.

Recommendation

That Senate approve and recommend to the Board of Governors the introduction of a BA (General) and BA (Advanced) in Global Political Economy, as approved by the Faculty of Arts, under the condition that the Vice-President (Academic) and Provost not authorize implementation of the programs until assured that long term funding has been obtained.

Respectfully submitted,

Norman Halden, Chair
Senate Planning and Priorities Committee

Terms of Reference: Senate Handbook (Rev. 1993), pp. 10.21/22
Comments of the Executive Committee:
The Executive Committee endorses the report to Senate.
Course to be deleted:

099.360  Advanced Feminist Theory  -3

Courses to be introduced:

099.4XX  Honours Thesis  +6
The thesis presents the results of an independent research project supervised by a faculty member. Prerequisite: written consent of the Women’s Studies Co-ordinator.

099.4XY  Advanced Feminist Theory  +3
In-depth analysis of feminist thought through an exploration of the major debates and issues in contemporary feminist theory. Students may not hold credit for both 099.4XY and the former 099.352 or 099.360. Prerequisite: 099.252 or written consent of the Women’s Studies Co-ordinator.

099.4YY  Practicum in Feminist Organizing  +6
Between September and March, the student will complete a minimum of eighty (80) hours of unpaid independent work in a feminist or woman-centered organization and meet regularly with the instructor and other practicum students. Students will reflect critically on the work experience in course assignments. Prerequisite: at least 24 credit hours in Women’s Studies and written consent of the Women’s Studies Co-ordinator.

NET CHANGE IN CREDIT HOURS:  +12
HONOURS 099.153 and
DOUBLE 099.154

A. 36 hours of credit in Women's Studies as follows:
   1. 099.252
   2. 099.358
   3. 099.4XX
   4. 099.4XY
   5. 9 hours of credit from List B
   6. A further 9 hours of credit from List A or List B, of which there are at least 9 hours of credit at or above the 300 level

B. At least 35 hours of credit in the other honours field
C. 5 hours in ancillary options

Total for Years II, III and IV combined: 78 hours of credit

Program Information

Major Program
(no changes)

Minor Program
(no changes)

Honours Program
For entry into the Honours Program see Section 4: Basic Faculty Regulations for the 3 Programs Leading to a B.A.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
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<td>099.252</td>
<td>Introduction to Feminist Theory (3)</td>
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</tr>
<tr>
<td>099.253</td>
<td>Writing Women's Lives (3)</td>
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</tr>
<tr>
<td>099.254</td>
<td>Special Topics in Women's Studies (3)</td>
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<td>099.256</td>
<td>Women, Science and Technology (3)</td>
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<td>099.350</td>
<td>Selected Topics in Women's Studies (3)</td>
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<tr>
<td>099.353</td>
<td>Readings in Women's Studies (6)</td>
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</tr>
<tr>
<td>099.354</td>
<td>Readings in Women's Studies (3)</td>
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<tr>
<td>099.355</td>
<td>Feminist Community Organizing (3)</td>
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<td>099.356</td>
<td>Feminist Perspectives on Violence Against Women (3)</td>
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<td>099.357</td>
<td>Feminist Cultural Studies (3)</td>
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<td>099.358</td>
<td>Feminist Approaches to Research (6)</td>
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<tr>
<td>099.359</td>
<td>Thinking Through the Body (3)</td>
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<tr>
<td>099.360</td>
<td>Advanced Feminist Theory (3)</td>
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</tbody>
</table>
I. Preamble

This document contains a proposal for two new degree options for undergraduate students in Psychology: a B.Sc. with a major in Psychology, and a B.Sc. with Honours in Psychology. The document has six major sections. The first provides the rationale that led to the proposal. The second presents the details of the programs of study. The third provides a comparison of the proposed programs to the current departmental programs and to the general requirements of the Faculty of Science. The fourth provides an estimate of the number of students who are likely to participate in the program. The fifth contains a statement of the resource implications of the program. The sixth and final section contains some of the frequently asked questions about the program and the Department's position on these questions.

II. Rationale

The principal reasons for proposing B.Sc. programs in Psychology are to:

- strengthen the science background of students interested in the scientific foundation of psychology,
- provide an appropriate academic background for students interested in emerging subdisciplines of psychology,
- provide more flexible degree options for undergraduate students of Psychology,
- provide a range of degree options equivalent to that offered by Psychology Departments in most other Canadian universities,
- implement Building on Strengths: Final Report of the Task Force on Strategic Planning Recommendation 57d and Faculty of Arts Strategic Planning Committee Recommendation 45.

Each reason is amplified in the sections that follow.

II.A. Scientific Foundation Of Psychology

Psychology is firmly rooted in basic science. Its major founders were trained in scientific disciplines of the latter part of the previous century. Their goal was to apply the scientific methodology in which they were trained to the study of mind and behaviour. This tradition continues unabated in psychology today, and virtually all academic psychologists convey a high regard for scientific methodology to their students. Like other scientists, psychologists stress rigorous experimentation and controlled empirical observations as the primary source of factual knowledge and the major arbiter for settling theoretical disputes. In addition to accepting the methodology of the more basic sciences, psychologists are increasingly recognizing the dependence of their subject matter on the facts, concepts, and theories of the more basic sciences. For example, the mental and behavioural phenomena that psychologists study are produced by biological organisms, and thus our understanding of these phenomena depend heavily on our knowledge and understanding of biological science. Similarly compelling arguments can be made for the importance to
psychology of other basic sciences. It follows that a firm grounding in the basic sciences can richly complement a psychology major's knowledge and appreciation of his or her major area of study. We view this as a strong and convincing reason to accommodate students wishing to pursue a B.Sc. in psychology.

II. B. Emerging Subspecialties In Psychology.

Psychology is a comparatively young science. It emerged during the late nineteenth century from the confluence of developments and interests in philosophy, neurology and physiology to undertake a scientific investigation of mind and behaviour. Its scope of enquiry expanded as it developed. This expansion reflected two pressures on the discipline: first, there was the emergence of a scientific literature and the need to incorporate wider ranges of intellectual thought in order to interpret experimental results; and second, there was the demand for answers to problems identified in society.

Such demands reflected contemporary concerns and changed with the decades: personal selection and aptitude identification in the 40s, child development and child rearing practices in the 50s, attitude formation and attitude change in the 60s; mental health in the 70s and aging in the 80s. The discipline has responded to each of these challenges. Each response has become a major specialty within the discipline and continues to generate active lines of investigation (see Appendix 1 for a description of the research being found in our Department).

In the 90s new societal challenges have emerged for Psychology. The ones that have directly influenced this proposal are:

- The National Institute of Health in the USA has declared the 90s as the decade of the brain. This declaration and the focusing of research funding has led to an explosive growth in brain related research.
- The American Medical Association has identified major psychological contributors to seven of the 10 leading diseases that kill North Americans. Discovery of the mechanisms by which the psychological factors operate have become important research problems.
- Societal focus on health and health issues have produced demands for definitions of healthy lifestyles and the procedures to produce them.
- Computerization, miniaturization and the explosion of available information have produced demands for automating complex processes that were previously performed by people.

As in the past, the discipline is expanding to respond to societal concerns. New subspecialties are emerging, many starting as interdisciplinary inquiries. Cognitive science, neuroscience, neural computing, behavioral medicine, and health psychology are but a few of the new fields of exploration for psychologists.

Some emergent fields have blossomed rapidly. For example, Cognitive Science emerged as an explicit interdisciplinary enterprise around 1976-77, with the creation of the Cognitive Science Society and the publication of the journal, Cognitive Science. "Cognitive" refers to perceiving and knowing, and "cognitive science" denotes the joint efforts of psychologists, computer scientists, philosophers, linguists.
II. D. Degree Options in Psychology at Other Canadian Universities.

The table on the next page displays the B.Sc. degree options for students of Psychology at major Canadian research universities. The table is based on recent calendar entries and is arranged geographically. The three Manitoba universities can be found in the shaded portion in the center with a selection of western schools located above and of eastern schools below them.

In Manitoba, Brandon University offers a 3-year B.Sc (Major) and a four-year B.Sc. (Specialist), which is similar to an Honours program. The Department of Psychology at the University of Winnipeg does not offer B.Sc. programs in Psychology. In western Canada, 50% of the universities examined offered both degree programs. In eastern Canada, 44% of the institutions examined offered B.Sc. (Major) and 100% offered B.Sc. (Hon) programs. The faculty in which the department is located does not appear to be a critical variable in determining the range of degree options available to students. B.Sc. programs exist in Psychology Departments located in Faculties of Arts, Faculties of Social Science, Faculties of Arts and Science and Faculties of Arts and Social Science.

The survey of other Departments of Psychology indicates that the University of Manitoba is atypical and far more restrictive than most institutions in providing degree options for students interested in our discipline. One consequence of the restrictive approach is that the current degree options place our department at a disadvantage in attracting undergraduates who are interested in Psychology within a science program.

II. E. Relation to University and Faculty Strategic Plans

Both Building on Strengths: Final Report of the Task Force on Strategic Planning and the Report of the Faculty of Arts Strategic Planning Committee have supported introducing B.Sc. programs in Psychology. Recommendation 57d in Building on Strengths includes the initiative to "Develop proposals, by December 31, 1998, for Bachelor of Science programs in geography and psychology, respectively ... (p. 62)". The Report of the Faculty of Arts Strategic Planning Committee proposes: "That the Faculty of Arts and the Faculty of Science recommend to Senate that students majoring in Psychology who meet an agreed upon program of studies graduate with a B.Sc. (p. 36)."

III. A. i. Eligibility for Admission.

To be eligible for the B.Sc. major in Psychology, students must normally have obtained a grade of C+ or better in 17.120 or 17.121 and 17.122 and in six credit hours in courses offered by the Faculty of Science. Introductory courses in Mathematics, Biology, Computer Science, Statistics or Mathematics are highly recommended. In addition, students must have obtained a grade point average of 2.00 or better on their first 30 credit hours. And finally, students must meet the entrance requirements for the four-year major of the Faculty of Science.

III. A. ii. Continuation in the Four-Year Major.

To continue in the Major program, a student must meet all the continuation criteria of the Faculty of Science. This includes maintaining a cumulative grade point average of at least 2.00 computed on all courses applied to and attempted in the program, and receiving no more than 18 credit hours of failing grades after admission to the program. Students who do not meet the minimum continuation requirements will be required to withdraw from the program.

The Department must approve a student's Major program for each session. Revisions to the program must also have prior approval.

III. A. iii. Degree Requirements for the Four-Year Major in Psychology.

To qualify for the degree of Bachelor of Science (Major), a student must offer the equivalent of 20 full courses (120 credit hours) with passing grades (D or better) in each course and with a minimum cumulative grade point average of 2.00 on the 120 credit hours that constitute the degree. In addition, the student must complete the program of study listed in Section III. A. iv.


In Year II (credit hours 31 to 50), students must complete 17.223¹, 17.226 and 6 additional credit hours in Psychology at the 200 or 300 level.

In Year III (credit hours 61 to 90), students must complete 18 credit hours in Psychology at the 200 or 300 level.

In Year IV (credit hours 91-120), students must complete 18 credit hours in Psychology at the 200 or 300 level.

¹ Course description of all undergraduate courses offered by the Psychology Department can be found in Appendix III.
3 hours of credit in free options.
Total: 30 hours of credit.

In Year III, students must complete: 3 hours of credit from 17.363, 17.450, or 17.457; 15 additional hours of credit in Psychology (3 hours each of at least two different lettered categories not sampled in Year II); 9 hours of credit in ancillary options; 3 hours of credit in free options. Total: 30 hours of credit.

In Year IV, students must complete: 17.452; 18 additional hours of credit in Psychology (6 hours at the 400 level; 12 hours at any level including any remaining lettered category); 5 hours of credit in ancillary options.
Total: 30 hours of credit.

IV. Comparison To Existing University of Manitoba Programs

The following table compares the proposed programs (shaded columns in the centre of the table) with the requirement of the existing four-year programs in the department of Psychology (two columns on the right) and the requirements for the B.Sc. programs in the Faculty of Science (two columns on the left). The sections below highlight the major differences between the proposed programs and the existing requirements.

IV. A. B.A. Requirements In Psychology.

The requirements in the proposed programs parallel the requirements in the existing B.A. (Advanced) and B.A. (Honours) programs of the Department of Psychology. The major differences between the proposed B.Sc. (Major) and the B.A. (Advanced) are that: an additional requirement of a minimum grade of C+ in six hours of credit from the Faculty of Science is needed for entry into the B.Sc. program; the B.Sc. (Major) requires an additional six hours of credit to be taken from the offerings of the Department; the B.Sc. (Major) has a breadth requirement in Psychology that is not part of the B.A. (Advanced); and the B.Sc. (Major) requires a minimum of 36 hours of credit be taken from Departments in the Faculty of Science. The major differences between the B.Sc. (Honours) and the B.A. (Honours) are that: there is a requirement to have a minimum grade of B in six hours of credit from the Faculty of Science in order to enter the program; the B.Sc. (Honours) requires an additional six hours of credit to be taken from the offerings of the Department in the fourth year; the B.Sc. (Honours) has 50 rather than 24 hours of credit in Year IV; and the B.Sc. (Honours) requires ancillary and free options courses to be chosen from courses that are acceptable to the Faculty of Science.

* Free options are to be chosen from courses that are acceptable for credit in the Faculty of Science (Including Psychology courses) and must be approved by the Department of Psychology.

* This difference reflects a fundamental difference in the purpose of the two types of degrees. The Faculty of Arts considers the purpose of the B.A. (Advanced) to be to permit a general education with reasonable specialization in one field of study, whereas the Faculty of Science considers the purpose of the B.Sc. (Major) to be to provide in-depth study of a subject to enable the student to function competently in a career in the chosen subject area (see the respective descriptions in the General Calendar). To function in a career in Psychology, students will need a working knowledge of the breadth of the discipline. To ensure that this occurs, a breadth requirement is included in the B.Sc. (Major).
This approach exists in the current programs of the Department of Psychology and reflects the structure of our discipline which is less hierarchical than some other science disciplines. Levels and modes of scientific inquiry vary greatly within our subdisciplines. Graduates of undergraduate psychology programs are expected to understand why there are differences in approaches to different content areas and what the relative strengths and weaknesses of the approaches are. Consequently, as a result of the discipline’s structure, our students need a broad choice from which they can fulfill their academic aspirations.

V. Number Of Students Likely To Participate In The Programs

The number of students who are likely to participate in the proposed programs is difficult to predict because these programs might appeal to students who are not presently in the Faculty of Arts or who would not now be taking Psychology courses.

In this context, we adopted the strategy of generating expected participation numbers from liberal and conservative methodologies in order to obtain a range that would realistically bracket the likely participation rate. In the liberal analysis, we conducted a survey of students in our required major courses in which the students were asked about the interest in participating in B.Sc. programs. The results indicate the interest in the program although not necessarily a commitment to it. In the conservative analysis, we examined the content of recent Honours theses to identify students who would have benefited from the proposed programs and then extrapolated the results to the enrolment figures for the current advanced major and Honours programs. A summary of these analyses is presented in the following table (for the details on the analyses please consult Appendix IV).

<table>
<thead>
<tr>
<th>Source</th>
<th>BA (Gen)</th>
<th>BA (Adv)</th>
<th>BA (Hon)</th>
<th>BSc (Mas)</th>
<th>BSc (Hon)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998-9 Enrollment in Psychology Programs</td>
<td>450</td>
<td>63</td>
<td>86</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Average Enrollment in Psychology Programs</td>
<td>592</td>
<td>94</td>
<td>86</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Projected Enrollment Based on 17-120 Survey</td>
<td>n/a</td>
<td>50</td>
<td>46</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Projected Enrollment Based on 200-level Survey</td>
<td>n/a</td>
<td>70</td>
<td>64</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Projected Enrollment Based on Retrospective Analysis</td>
<td>n/a</td>
<td>80</td>
<td>75</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

* Three-year Major in Psychology

The table shows that the projections differ significantly in magnitude. In the short term, we expect the retrospective analysis to be closest to the actual number of students that will participate in the B.Sc. programs. The expectation is based on the following considerations: enrolments in departmental programs have been declining; current students have already selected their career path and changing this in midstream is less likely than attracting new students; the pattern of Honours thesis topics has not changed...
the committee structure in the Faculty of Science would have the consequence of reducing their effectiveness in research and teaching. Members of the Faculty of Science might perceive an influx of a large number of members (see Appendix I) to be disruptive with the consequence of increased resistance to initiatives presented by the new members. As the goal of the proposal is to establish a foundation on which greater co-operation can be based, it is important to build new relationships in an open, supportive environment.

Currently, the Department has two positions on Science's Faculty Council. This number, or a modest increase in it, would be sufficient to satisfy our concerns about adequate representation for support of the program.

If the program is approved, what processes will be needed in order to make changes to it in the future? Additional consultation within the University will be needed in order to provide an answer to this question.

With so many options available to students, how will they know what courses to take in order to build the foundation they need to fulfill their aspirations?

If the program is approved, the Department will develop a number of fact sheets for distribution to high schools and first-year students. They will also be posted on a WWW site. The sheets will describe different sub specialties: the typical activities of individuals in these sub specialties, the level of education needed to participate in the sub specialty, and recommended curricula for entry into the sub specialty.

If the proposal is approved, what happens to students who, having entered one of its programs, change their minds or get into academic difficulty?

Generally, the rules of the Faculty of Science would apply. If academically eligible students were interested in switching to other programs in the Department of Psychology, the students would have to transfer to the Faculty of Arts. Such transfers routinely happen now. The major difficulty facing such students is the potential problems of satisfying Minor requirements in the Faculty of Arts.

The proposal does contain one possible new problem for students. Only for students in the proposed four-year B.Sc. (Maj) and B.Sc. (Hon) programs are the courses from the Department of Psychology considered to be Science courses. Consequently, students moving from four-year programs to three-year programs could have problems. If they have taken sufficient courses from departments in the Faculty of Science, they could move to the three-year B.Sc. (Gen) program. This would not cause a problem for the student. However, some students would not be eligible for the general program because they had not completed sufficient courses and because their Psychology courses would not be considered Science courses for the purposes of obtaining a B.Sc (Gen). The latter group of students would have to move to the three-year B.A. program. Given that the students would have no options, it would be inappropriate to charge a financial penalty for this required change of Faculty.
B.Sc. HONOURS and B.Sc. MAJOR in PSYCHOLOGY

PROPOSED PROGRAM
2000-2001

PSYCHOLOGY(017)
(Faculty of Arts)
General Office: Room 204 Duff Roblin Building Telephone: (204) 474-9338

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>YEAR I</th>
<th>YEAR II</th>
<th>YEAR III</th>
<th>YEAR IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONOURS</td>
<td>017.122 (4+1)</td>
<td>017.230WMA</td>
<td>3 credit hours</td>
<td>017.452</td>
</tr>
<tr>
<td></td>
<td>017.121(4+) and 017.122(4+)</td>
<td>017.363, 017.452, or 017.457</td>
<td>18 credit hours</td>
<td>Psychology</td>
</tr>
<tr>
<td>6 Credit Hours</td>
<td>15 credit hours</td>
<td>Psychology</td>
<td>6 credit hours</td>
<td></td>
</tr>
<tr>
<td>Science(6)</td>
<td>Auxiliary Options</td>
<td>Psychology</td>
<td>Auxiliary Options</td>
<td></td>
</tr>
<tr>
<td>3 credit hours free options</td>
<td>3 credit hours free options</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 30 Hours | 30 Hours | 30 Hours | 30 Hours |

| FOUR YEAR MAJOR | 017.120 (C+1) or 017.121 (C+1) | 017.225, 017.226M | 18 credit hours | 18 credit hours |
| 6 Credit Hours | 5 credit hours | 200 or 300 level | 200 or 300 level |
| Science(6) | Psychology 7 | Psychology 7 |

Plus 30 credit hours of courses from departments in the Faculty of Science, including a minimum of 18 credit hours at the 200 level or above. A "W" course must be taken in Year I or II.

1. All courses in the Faculty of Science require a minimum grade point average of 2.00. Students must complete the program as listed in the Faculty of Science requirements for entry to the Major program as listed in the Faculty of Science requirements for entry to the Major program.

2. To continue in the Major program, a student must meet all of the continuation criteria of the Faculty of Science. This includes maintaining a minimum cumulative grade point average of 2.00 based on all courses applied to and attempted in the program, and no more than 18 credit hours of failing grades after entry into the program. Students who do not meet the minimum continuation requirements for the program must withdraw from the Major program.

3. The Department of Psychology offers programs leading to a B.Sc. degree in Psychology and a B.Sc. degree in Psychology with Honours. Courses in the Faculty of Science are included in this program.

4. To continue in the Honours program, students must have obtained a grade of C+ or better in 017.122 for both 017.123 and 017.124 and a grade of B in 017.125 and 017.126 in the six credit hours of courses offered by the Faculty of Science. In addition, students must have obtained a grade point average of 3.00 or better in their first 30 credit hours and have no failed courses. Introductory courses in psychology, computer science, mathematics, statistics, or sociology are highly recommended.

5. The Major program requires a minimum of 120 credit hours, including a minimum of 90 credit hours in psychology courses.

6. To qualify for the degree of Bachelor of Science (Major), students must complete at least 60 credit hours of courses with passing grades (C or better) in each course and with a minimum cumulative grade point average of 2.00 on the 200 credit hours that constitute the degree. In addition, the student must complete the program of study as listed in the program chart above.

7. To enter the Major program, students must normally have obtained a grade of C+ or better in 017.121 (or both 017.122 and 017.123) and in the credit hours in courses offered by the Faculty of Science and meet the Faculty of Science requirements for entry to the Major program as listed in the chart above.
Report of the Senate Planning and Priorities Committee (SPPC) on the Faculty of Science's Proposal to Establish a BSc (Major) and BSc (Honours) in Psychology

The Faculty of Science is proposing the introduction of BSc (Major) and BSc (Honours) programs with a specialization in Psychology.

Preamble

Through the proposed programs, the Department of Psychology will: a) strengthen the science background of students interested in the scientific foundation of psychology; b) provide an appropriate background for students interested in emerging subdisciplines of psychology, such as behavioural neuroscience, cognitive psychology and health psychology; c) provide more flexible degree options for students in psychology; and d) provide a range of degree options equivalent to those offered by Psychology departments in most other Canadian universities.

Observations

1. The proposals implement recommendations in both the University's and the Faculty of Arts' strategic plans. Specifically, the programs satisfy recommendation 57 d) of Building on Strengths: Final Report of the Task Force on Strategic Planning and recommendation 45 of the Faculty of Arts' Strategic Planning Committee Report.

2. The program takes advantage of existing courses in the Department of Psychology and the Faculty of Science.

3. The projected enrollment is not expected to be high enough to require added sections of courses. Moreover, it was noted that a small number of students have historically structured their programs of studies to obtain the course equivalent of the proposed programs.

4. The University has been advised to proceed as though the submitted Statement of Intent has been approved.

5. No new courses nor human resources are needed to offer the programs.

Recommendation

That Senate approve and forward to the Board of Governors the recommendation that the proposed BSc (Major) and BSc (Honours) degree programs be approved, contingent upon approval by the Faculty of Science.

Respectfully submitted,

Norman Halden, Chair
Senate Planning and Priorities Committee

Terms of Reference: Senate Handbook (Rev. 1993), pp. 10.21/22

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.
November 8, 1999

Dr. Emőke Szathmáry
President & Vice Chancellor
The University of Manitoba
Room 200 Administration Building
Winnipeg MB R3T 2N2

Dear Dr. Szathmáry:

The Statements of Intent for Bachelor of Midwifery, Bachelor of Science in Psychology (Honours and Major), and the Graduate Diploma in Population Health have been reviewed. The University can now proceed to the proposal stage. It is our understanding that no new monies are being requested of Council in the establishment of the Bachelor of Science in Psychology or the Diploma in Population Health.

However, the Statement of Intent for the Graduate Diploma in Population Health indicated that this program would not have a distance education delivery component. We would ask that this decision be reconsidered and that the University identify how the program will be delivered to individuals working in the health field outside of Winnipeg, who fall within the target population for the program.

Please note that approval of Statements of Intent does not necessarily guarantee approval of the formal program proposal.

We look forward to receiving your formal program proposal.

Yours truly,

[Signature]

Léo LeTouneau, Ph.D.
Executive Director

c. Louise Gordon
November 16, 1999

To: Dr. Jim Jamieson, Dean, Faculty of Science

From: Richard A. Lobdell, Vice-Provost (Programs)

Re: Bachelor of Science in Psychology (Honours and Major)

You will see from the enclosed copy of a letter from COPSE to the President that we are now permitted to proceed with a full program proposal for the creation of a Bachelor of Science in Psychology (Honours and Major). Thus, you and your colleagues should begin moving this proposal through CCCC and SPPC.

Encl.

/dg

cc: E.J.E. Szathmáry, President
    K. C. Ogden, A/Vice-President (Academic) & Provost
    B. Sawicki, University Secretary
Psychology Courses (017)
The following courses are available to Science students registered in the Honours and Major B. Sc. degree programs. For Course Descriptions see the Faculty of Arts of the Calendar.

017.224 History of Psychology (3)
017.225 Introduction to Psychological Research (3)
017.226 Introduction to Research Methods in Psychology (1)
017.231 Child Development (3)
017.231 Adolescent Development (1)
017.232 Motivation (3)
017.233 Emotion (3)
017.237 Developmental Psychology from Adolescence to Old Age (1)
017.239 Psychology of Women (3)
017.240 Psychology of Sex Differences (3)
017.241 Social Psychology (3)
017.242 Social Psychology II (3)
017.243 Humanistic and Transpersonal Psychology (3)
017.244 Behavior Modification Principles (3)
017.245 Behavior Modification Applications (3)
017.246 Dyadic Relations (3)
017.247 Learning Foundations in Psychology (3)
017.248 Cognitive Processes (3)
017.250 Elements of Biology (3)
017.251 Comparative Psychology (3)
017.252 Operations of Psychological Systems (3)
017.333 Elements of Physiological Psychology (3)
017.336 Experimental Child Psychology (3)
017.337 Principles of Physiological Psychology (3)
017.339 Thinking (3)
017.343 Sensory Processes (1)
017.344 Perception (3)
017.345 Psychology of Personality (3)
017.346 Abnormal Psychology (3)
017.348 Social Learning and Psychopathology (3)
017.349 Individual Differences (3)
017.351 Organizational Psychology (3)

017.352 Independent Research in Psychology I (3)
017.353 Contemporary Issues I (3)
017.354 Contemporary Issues II (3)
017.355 Supervised Field Study in Psychology (3)
017.358 Language and Thought (3)
017.359 Independent Research in Psychology II (3)
017.360 Environmental Psychology (3)
017.361 Memory (3)
017.362 Community Mental Health (3)
017.363 Psychological Measurement and Assessment (3)
017.365 Introduction to Clinical Psychology (3)
017.366 Sport Psychology (3)

Honours Courses
All Honours courses have as prerequisite appropriate standing in an Honours Psychology program.

017.230 Advanced General Psychology (3)
017.232 Learning (3)
017.445 Animal Behavior I (3)
017.446 Animal Behavior II (3)
017.447 Perception (3)
017.448 Thinking (3)
017.449 Comparative Psychology (3)
017.450 Psychological Tests (3)
017.452 Honors Research Seminar I (3)
017.453 Sleep and Dream Research (3)
017.454 Consumer Issues I (3)
017.455 Stimulation and Adjustment (3)
017.456 Health Psychology (3)
017.457 Design and Analysis for Psychological Experiments (3)
017.458 Elements of Behavioral Pharmacology (3)
017.459 Selected Topics in Social Psychology (3)
017.460 Selected Topics in Developmental Psychology (3)
017.461 Social Cognition (3)
017.462 Community Mental Health (3)
21 October 1999

Report of the Senate Committee on Curriculum and Course Changes on a Proposal for B.Sc. Programmes in the Department of Psychology

Preamble

The Senate Committee on Curriculum and Course Changes met on the above date to consider a proposal for two new degree programmes in the Department of Psychology: a B.Sc. with a major in Psychology, and a B.Sc. with Honours in Psychology.

Observations

1. The Committee on Curriculum and Course Changes was informed that a Statement of Intent has been forwarded to the Council on Post-Secondary Education (COPSE).

2. The Committee understands that one of the reasons for the development of the proposal was an effort to create greater flexibility for students in designing their programmes, and that it meets the structure of existing major and honours programmes within the Faculty of Science. It was noted that the University of Manitoba is one of a very few universities in Canada which does not already have a B.Sc. in Psychology.

3. No new courses are being proposed within the programme, and it will be available to majors and honours students only. In addition, the proposal requires no additional library resources or new research laboratories.

4. The proposal was also forwarded to the Senate Planning and Priorities Committee for consideration and comment on the financial resources required.

5. Although the proposal has been approved by the Science Executive, it will not be formally considered by the entire Faculty Council of Science until 24 November.

Recommendation

The Senate Committee on Curriculum and Course Changes recommends that the proposed B.Sc. Programmes in the Department of Psychology be approved by Senate, contingent upon the approval of the Faculty of Science.

Respectfully submitted,

Dean B. L. Dronzek, Chair
Senate Committee on Curriculum and Course Changes


As requested by the Executive Committee, the Executive Committee endorses the report to Senate.
substantially for the past decade which suggests the retrospective analysis better captures the interests of students; most students in Psychology are interested in applied issues and therefore combine Psychology courses with courses in the social sciences and humanities; and, it will take time to market the merits of the proposed degree options to students. It is further expected that the B.Sc. degree options will become more popular in the mid-term.

VI. Resource Implications

The proposal requires no new courses, no new faculty members, no new teaching facilities, no additional library resources and no new research laboratories. Administering the program could be accomplished within the current complement of departmental administrative positions which include an Associate Head for undergraduate programs and a graduate student who is hired on a part-time basis as an undergraduate advisor. It is anticipated that students who will participate in the program will primarily be students who otherwise would be in the Department's programs. Therefore, for the Department, there are no new resource demands originating in this proposal.

For the Faculty of Science, the impact is difficult to assess. The proposal requires no new courses, physical space or laboratory supplies. It is also possible that there would be little change in the number of students in Science courses. However, it is more realistic to assume that there will be a modest increase in demand for entrance into courses offered in the Faculty of Science. Because the proposed programs require a more structured sampling of Science courses than has occurred for Psychology students in the past, it is anticipated that there could be a modest increase in the number of FTEs in Science. This is most likely to be observed in the Introductory Biology Program and Departments of Chemistry, Computer Science, Mathematics, Statistics, and Biology.

VII. Frequently Asked Questions

During the course of discussions about this proposal, several questions have been repeatedly raised. These questions are presented below. The Department's position on each question immediately follows it.

Is this a new program?
Formally, it is a new program. Students cannot now obtain B.Sc (Maj) or B.Sc. (Hon) degrees in Psychology. Functionally it is not a new program. Students, frequently on the advice of Department members, have undertaken equivalent programs of study for many years.

In which faculty will the students be enrolled if the programs are approved?
The students will be enrolled in the Faculty of Science.

Does this mean that the Department of Psychology will become a department in the Faculty of Science?
No. The programs will be in the Faculty of Science but the Department will not. The situation would be similar to the B.A. program offered by the Department of Mathematics which is in the Faculty of Science and the Biosystems Engineering program which is in the Faculty of Agricultural and Food Sciences.

Does this mean that members of the Department of Psychology will become members of Science's Faculty Council?
Ideally the answer to the question would be yes, but pragmatically it is no. Members of the department are already sufficiently engaged in administrative responsibilities. Adding additional ones through service to
IV. B. B.Sc. Requirements In Science.

The requirements in the proposed programs are either the same as or more restrictive than the current requirements of the Faculty of Science. Where the requirements are more restrictive (e.g., grade point average requirements in the proposed B.Sc. (Honours)), the Faculty of Science has permitted its Departments latitude in designating requirements. The major differences between the proposed programs and the existing programs of the Faculty of Science are not apparent from the table. The differences are that the proposed programs have few required courses, few prerequisites and multiple options for the student.

<table>
<thead>
<tr>
<th>Item</th>
<th>Science</th>
<th>Proposed B.Sc.</th>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B.Sc.*</td>
<td>B.Sc. (Hon)</td>
<td>B.Sc.*</td>
</tr>
<tr>
<td>Number of credit hours</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Normal Entry Point After (Cr Hrs)</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Fall Term (24 Cr Hrs) Required?</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Minimum FCE in Major Dept.**</td>
<td>9**</td>
<td>10.5***</td>
<td>10</td>
</tr>
<tr>
<td>Minimum FCE in Science</td>
<td>14</td>
<td>PD</td>
<td>14</td>
</tr>
</tbody>
</table>

Programme Requirements on Entry:

<table>
<thead>
<tr>
<th>Item</th>
<th>Science</th>
<th>Proposed B.Sc.</th>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>B.Sc.*</td>
<td>B.Sc. (Hon)</td>
</tr>
<tr>
<td>Introduction to Major Discipline (min GPA)</td>
<td>2.5</td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>Number of Failures at Time of Entry</td>
<td>n/a</td>
<td>0</td>
<td>n/a</td>
</tr>
<tr>
<td>Min GPA on first 30 Cr Hrs</td>
<td>2</td>
<td>2.4</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Continuation Requirements**

<table>
<thead>
<tr>
<th>Item</th>
<th>Science</th>
<th>Proposed B.Sc.</th>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>B.Sc.*</td>
<td>B.Sc. (Hon)</td>
</tr>
<tr>
<td>Cumulative GPA (after 54 Cr Hrs)</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Sessional GPA</td>
<td>n/a</td>
<td></td>
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<td>Number of Failures Permitted (FCE)</td>
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<td>Min. Acceptable Course Load per Session (Cr Hrs)</td>
<td>n/a</td>
<td>24****</td>
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Graduation Requirements**

<table>
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<tr>
<th>Item</th>
<th>Science</th>
<th>Proposed B.Sc.</th>
<th>Psychology</th>
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<tr>
<td></td>
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<td>B.Sc.*</td>
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<td>Cumulative GPA</td>
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<td>GPA in Major Courses</td>
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<td>Max FCE courses in Major</td>
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<td>Max total courses (FCE) in Major and Minor</td>
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<td>Minimum Humanities Requirement (FCE)</td>
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<td>Max Number (FCE) non-Arts (Science) Courses</td>
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<td>Min Number (FCE) non-Science Courses</td>
<td>1</td>
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<td>n/a</td>
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</table>

PD = Program Defined; n/a = not applicable

** four-year program

*** based on Zoology and Computer Science

**** in all introductory courses specified by the Department

****** 5 Cr Hrs can be completed during summer session

**** Department may set more restrictive criteria
During Years II to IV, students must select at least three credit hours from four of the five categories\(^2\) of courses offered by the Department of Psychology and at least 30 credit hours, 18 of which must be at the 200 level or above, from Departments in the Faculty of Science.

### III. B. Proposed Honours B.Sc.

#### III. B. i. Eligibility for Admission.

To be eligible for the Honours B.Sc. in Psychology, students must normally have obtained a grade of B+ or better in 17.120 or 17.121 and 17.122 and a grade of B or better in six credit hours in courses offered by Departments in the Faculty of Science. Introductory courses in Biology, Chemistry, Computer Science, Mathematics, Statistics, and Zoology are highly recommended. In addition, students must have obtained a grade point average of 3.25 or better on up to their first 30 credit hours and have no failed courses.

#### III. B. ii. Continuation in the Honours B.Sc program.

To continue in the Honours program, a student must be a full-time student and must meet all the continuation criteria of the Faculty of Science. In addition, students must maintain a cumulative grade point average of at least 3.25 computed on all courses applied to and attempted in the program, and a sessional grade point average of 2. Students who do not meet the minimum continuation requirements will be required to withdraw from the program.

The Department must approve a student's Honours program for each session. Revisions to the program must also have prior approval.

#### III. B. iii. Degree Requirements for the Honours B.Sc. in Psychology.

To qualify for the degree of Bachelor of Science (Honours), a student must offer the equivalent of 20 full courses (120 credit hours) with passing grades (D or better) in each course and with a minimum cumulative grade point average of 3.0 on the 120 credit hours that constitute the degree. In addition, the student must complete the program of study listed in Section III. B. iv.

#### III. B. iv. Program of Study for the Honours B.Sc. in Psychology.

In Year II, students must complete 17.230; 6 additional credit hours in Psychology at the 200 or 300 level (3 hours from each of two different lettered categories of courses); 15 hours of credit in ancillary options\(^3\);

---

\(^2\) The categories are as follows:

- **Category A: Personality/Social** - 17.241, 242, 345, 346
- **Category B: Developmental** - 17.229, 231, 237
- **Category C: Learning** - 17.244, 247
- **Category D: Cognitive** - 17.248, 344, 358, 361
- **Category E: Biological** - 17.333, 343

\(^3\) Ancillary options are to be chosen from courses that are offered by departments in the Faculty of Science (excluding Psychology courses) and must be approved by the Department of Psychology.
### Proposed B.Sc. Programs of Study

The proposed programs of studies were designed to conform to the following principles:

- flexibility for students in designing their programs of study,
- compatibility with the requirements of B.Sc. programs in the Faculty of Science,
- compatibility with the requirements of the current B.A. (Advanced) or B.A. (Honours) programs in the Department of Psychology (presented in Appendix II).

Each program is detailed in a the sections that follow.
neuroscientists, and others to address the central problems of the human mind. The contributing disciplines have markedly different methodologies, but they share the goal of evaluating the nature of mind. Major advances in our understanding of human information processing have resulted from these interactions.

The neurosciences have shown even greater growth than, and now share some common interests with, Cognitive Science. Behavioural and cognitive neuroscience represent the application of modern neurobiological and neurocomputational theory, modeling, and techniques to illuminate understanding of human and infrahuman behaviour, cognition, emotion, and motivation. Traditional areas of study in psychology, such as physiological psychology, psychobiology, and psychopharmacology, are being subsumed by the neurosciences because of its emphasis on the role of the nervous system in the analysis of behaviour. Since its inception in 1970, the Society for Neuroscience has developed into an interdisciplinary organization whose membership now exceeds 25,000, of which the largest constituency (16%) lists psychology as their primary departmental affiliation. The further development of research and graduate training, professional societies, and peer-reviewed journals devoted to either behavioural or cognitive neuroscience, or both, attests to the central role that the neurosciences play in current syntheses of biology, psychology, and computer science.

In the past, Departments of Psychology have met the expansion of our discipline by hiring faculty with expertise in the emerging areas. The faculty member would then be charged with developing appropriate pedagogies to integrate the emerging field with existing graduate and undergraduate programs. As the emergent areas matured and additional faculty members were hired, the area would become a subspecialty within a department.

This approach to handling the expansion of the discipline is neither feasible nor appropriate in the present context. Resources are not available for major expansions in the size of our Department. In fact, the available resources make it increasingly more difficult to cover adequately the more traditional areas of the discipline. For undergraduates to flourish in many of the emerging areas, they require a better grounding in natural and physical sciences. This can best be obtained from experts in these disciplines and from the courses that they teach.

II. C. Flexible Degree Options For Undergraduate Students.

Under existing regulations of the Faculties of Arts and Science, students can structure their program of study to access courses from the Faculty of Science and to obtain the equivalent of the proposed B.Sc. programs. The Faculty of Arts accepts the Science courses for degree purposes (B.A. (Advanced), B.A. (Honours)); the Faculty of Science accepts Arts students into their courses if the prerequisites are met or the Department gives special permission. What the current system does not do is provide recognition that the students have undertaken a program of studies in Science which differs significantly from that of the psychology B.A. graduate.

At one time the lack of recognition was not a major impediment to the career aspirations of students. This, however, is changing. The increasingly interdisciplinary approaches to psychological issues is changing the requirements being used to accept students into graduate programs. Students receiving a B.Sc. may be taken in preference to students with B.A.'s in graduate programs that focus on neuroscience and cognitive science training. Thus, our graduates, with equivalent training to those from other programs that grant a B.Sc. degree, may be at a competitive disadvantage in obtaining admission into some of the leading research fields in the discipline.
ADDENDUM TO AGENDA

III MATTERS FORWARDED FOR INFORMATION

3. Program Accreditation: 1999 Annual Update

/sgp
November 17, 1999

To: Ms. Beverly Sawicki, University Secretary
From: Richard A. Lobdell, Vice-Provost (Programs)
Re: Program Accreditation: 1999 Annual Update

Attached for the information of the Board of Governors and of Senate is the 1999 update of the accreditation status of programs in various Departments, Schools, and Faculties as provided by Deans and Directors. As before, there are no accredited programs in the School of Art, Faculty of Education, and the School of Music. The Faculty of Physical Education and Recreation Studies is now preparing a package for application to Canadian Athletic Therapists Assoc. It has been the practice for some years to distribute this information to the Senate and Board of Governors.

Note that this summary does not include any of the equally formal and important accreditations of other instructional and research activities, for example, that of the Canadian Council for Animal Care.

As noted in previous reports, the term "accreditation" continues to have differing meaning for various disciplines and for different accrediting agencies. In certain cases, accreditation carries legal status and eligibility for licensing for graduates; in other cases, accreditation is seen as a measure of quality control, without the sanction of licensing to practice.

In all cases, the University's continuing financial circumstances have caused academic units to defend the quality of their programs in imaginative and innovative ways. This has been difficult and some accrediting agencies have not always appeared to comprehend fully the implications of demanding that we do more with fewer real resources.

Att.

dg
<table>
<thead>
<tr>
<th>Programs Accredited or Eligible for Accreditation</th>
<th>Locales included in Accreditation</th>
<th>Accrediting Agencies</th>
<th>Date to which Program is Accredited</th>
<th>Status of Accreditation (Full or Provisional)</th>
<th>Jurisdiction of Accrediting Agency</th>
<th>Status of Accrediting Agency</th>
<th>Anticipated Date of Next Accreditation</th>
<th>Costs of Accreditation Paying</th>
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<td>AGRICULTURE</td>
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<tr>
<td>Biosystems Eng.</td>
<td>U of M</td>
<td>Canadian Engineering Accreditation Board, Canadian Council of Professional Engineers</td>
<td>2001</td>
<td>Full</td>
<td>Canada: reciprocal agreement with U.S.A.</td>
<td>Professional body</td>
<td>Visit Fall/00</td>
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<td>Food Science</td>
<td>U of M</td>
<td>Canadian Institute of Food Science and Technology, Ottawa</td>
<td>open ended</td>
<td>Full</td>
<td>Canada</td>
<td>Voluntary Association: Incorporated under Federal Legislation</td>
<td>See note (1) below</td>
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<td>Full</td>
<td>Canada and U.S.A.</td>
<td>Professional Body</td>
<td>TBA</td>
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Note (1) In touch with various methods as there has been no communication from CIFST re a possible accreditation review.

B.Sc. Agriculture (degree) Majors U of M
- Agronomy
- Animal Systems
- Plant Systems

Agricultural Institute of Canada
TBA
Charter Accredited 1998
Canada Professional Body TBA

B.Sc. Agribusiness (degree) - Majors
- Agribusiness
- Agricultural Economics

B.Sc. Agroecology (degree)
B.Sc. Biosystems Eng. (degree)
B.Sc. Food Science

As of November 1999
<table>
<thead>
<tr>
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<th>Status of Accreditation (Full or Provisional)</th>
<th>Jurisdiction of Accrediting Agency</th>
<th>Status of Accrediting Agency</th>
<th>Anticipated Date of Next Accreditation</th>
<th>Costs of Accreditation (On-Site) Agency</th>
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<tr>
<td>M. Arch.** Program (Dept.) of Architecture</td>
<td>U of M</td>
<td>Canadian Arch. Certification Board (CAB), 330-55 Murray St. Ottawa, ON K1N 5M3</td>
<td>2004</td>
<td>5 years (full)</td>
<td>National Reciprocity with NAAB (USA)</td>
<td>Mandatory Professional Association</td>
<td>Spring 2004</td>
<td>$500 annual plus on-site costs of visiting team $12,000</td>
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<td>City Planning</td>
<td>U of M</td>
<td>Cdn. Institute of Planners (CIP) 541 Sussex Dr. 2nd Fl. Ottawa, Ont.</td>
<td>Apr. 2001</td>
<td>Full</td>
<td>National, Provincial &amp; International</td>
<td>Mandatory Professional Association</td>
<td>2000 (Oct.19-22)</td>
<td>$100 annual fee &amp; site costs of approx. $4000 for visiting team every 5 years</td>
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<td>Landscape Architecture</td>
<td>U of M</td>
<td>Cdn. Society of Landscape Arch., Box 3304, Sta. C Ottawa, Ont.</td>
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<td>Full</td>
<td>National, International</td>
<td>Mandatory National Membership through Licensing Registration</td>
<td>March 2000</td>
<td>$1000 every year, plus site visit costs</td>
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</table>

* paid only during accreditation visit year

**ARTS**


As of November 1999
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<thead>
<tr>
<th>Programs</th>
<th>Locales included in Accreditation</th>
<th>Accrediting Agencies</th>
<th>Date to which Program is Accredited</th>
<th>Status of Accreditation (Full or Provisional)</th>
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<th>Status of Accrediting Agency</th>
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<th>Costs of Accreditation</th>
<th>Agency Paying</th>
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* total cost is $2,928 annually on a 7 year accreditation site visit cycle.
Note: accreditation follows a 7 year cycle except for the Dental Internship Program which follows a 5 year cycle
Note: one year extension for accreditation requested and received from Canadian Dental Association
<table>
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<th>Programs Accredited or Eligible for Accreditation</th>
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<td>Family Studies - Child Studies Concentration</td>
<td>U of M</td>
<td>Child Care Education Program Approval Committee (CCEPAC), Manitoba Education Training 185 Carlton St., 4th Floor Winnipeg, MB R3C 3J1</td>
<td>Oct. 1998**</td>
<td>Full</td>
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<td>Provincial Association (Chapter H70 Professional Home Economists Act)</td>
<td>Professional Association (provincial)</td>
<td>B.H. Ecol. graduates admitted after successful completion of 1 yr. as interim professional home economist</td>
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*The Dietitians of Canada (DC) accredits all dietetic internship programs in Canada; successful completion of an internship is required for members in the DC and in all provincial associations. The provincial associations and the rights to practice are governed by provincial acts. The DC prescribes academic qualifications for admission to an accredited internship program. The Professional Standards Council of the DC regularly reviews the university programs in dietetics and provides the institutions offering internships with a list of the universities and colleges whose graduates meet the academic qualifications.

**Requested a 1 - 2 year extension due to Task Force Recommendations**

**LAW**

| Undergraduate curriculum, term, length, resources | U of M | Law Society of Upper Canada & Law Societies (or equivalent) in all other Provinces and Territories on basis of standards approved by L.S.U.C. and the national Federation of Law Societies of Canada | Indefinite | Full | In each Province or Territory | Statutory governing body of the profession (usually called a "Law Society") | Continuous | Nil | N/A |

**MANAGEMENT**

| U of M | American Assembly* of Collegiate Schools of Business | 2009 | full | International | Professional | $9,000 U.S. | U of M |

*Voluntarily requested.

As of November 1999
<table>
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<tr>
<th>Programs</th>
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<th>Accrediting Agencies</th>
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<td>Family Practice Practice Residence Program</td>
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<td>Canadian Assoc. of Occupational Therapy</td>
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<td>110 Eglington Ave. W.</td>
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<td>3rd floor, Toronto, ON</td>
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As of November 1999
<table>
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<tr>
<th>Programs Accredited or Eligible for Accreditation</th>
<th>Locales included in Accreditation</th>
<th>Accrediting Agencies</th>
<th>Date to which Program is Accredited</th>
<th>Status of Accreditation (Full or Provisional)</th>
<th>Jurisdiction of Accrediting Agency</th>
<th>Status of Accreditation Agency</th>
<th>Anticipated Date of Next Accreditation</th>
<th>Costs of Accreditation Agency Paying</th>
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<tbody>
<tr>
<td>Division of Physical Therapy</td>
<td>U of M</td>
<td>Canadian Physiotherapy Assoc., 44 Eglinton Ave. W. Toronto, Ont. M4R 1A1</td>
<td>2000</td>
<td>Full</td>
<td>International</td>
<td>Voluntary</td>
<td>2000</td>
<td>$3,850</td>
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<td>Fellowships in Clinical Genetics, Medical Genetics, Medical &amp; Health Sciences, Cytogenetics, Molecular Genetics</td>
<td>U of M</td>
<td>Medical College, &amp; Health Sciences Centre</td>
<td>2000</td>
<td>Full</td>
<td>National</td>
<td>Voluntary</td>
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<td>U of M</td>
<td>Canadian Psychological Assoc/American Psychological Assoc.</td>
<td>1997/98</td>
<td>Full</td>
<td>National</td>
<td>Voluntary</td>
<td>March 1999*</td>
<td>$2,444/yr. $2,472 in year of site visit</td>
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* Final Accreditation Report from CPA and APA on June 1999 site visit is expected in January 2000.

**NURSING**

<table>
<thead>
<tr>
<th>Programs Accredited or Eligible for Accreditation</th>
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<th>Status of Accreditation (Full or Provisional)</th>
<th>Jurisdiction of Accrediting Agency</th>
<th>Status of Accreditation Agency</th>
<th>Anticipated Date of Next Accreditation</th>
<th>Costs of Accreditation Agency Paying</th>
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<tr>
<td>U of M plus clinical facilities</td>
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<td>Canadian Association of University Schools of Nursing</td>
<td>April, 2003</td>
<td>Full</td>
<td>National</td>
<td>Professional Association</td>
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<td>5000 + 3258.06</td>
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<tr>
<td>U of M plus clinical facilities</td>
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<td>Manitoba Association of Registered Nurses</td>
<td>December,2000</td>
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<td>Provincial</td>
<td>Professional Association</td>
<td>2000</td>
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As of November 1999
### PHARMACY

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<th>Date to which Program is Accredited</th>
<th>Status of Accreditation</th>
<th>Jurisdiction of Accrediting Agency</th>
<th>Status of Accrediting Agency</th>
<th>Anticipated Date of Next Accreditation</th>
<th>Costs of Accreditation</th>
<th>Agency Paying</th>
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<tbody>
<tr>
<td>Bachelor of Pharmacy degree programs</td>
<td>All Pharmacy faculties in Canada</td>
<td>Canadian Council for Accreditation of Pharmacy Programs</td>
<td>2002</td>
<td>Full</td>
<td>Canada</td>
<td>Professional</td>
<td>Fall 2002</td>
<td>$5,000/yr.</td>
<td>Faculty</td>
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### SCIENCE

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<th>Institution</th>
<th>Level</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Computer Sci.</td>
<td>U of M</td>
<td>Co-op Major</td>
<td>(note 1)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>U of M</td>
<td>(Honours &amp; 4-yr. Major)</td>
<td>(note 2)</td>
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<tr>
<td>Geological Sci.</td>
<td>U of M</td>
<td>Associations of Professional Engineers and Geoscientists</td>
<td>Until further review or action is taken</td>
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</tbody>
</table>

1. No current accreditation. The Computer Science Department's Curriculum Committee is considering which, if any, changes are needed to conform to the Computer Science Accreditation Council's guidelines. It is very likely that such changes will be made and that the computer science Department will apply for accreditation in 2000.

2. Also includes Biochemistry Joint Honours and 4-yr. Major, and Biotechnology Joint Honours.

3. Geology Honours & Grad programs are currently accredited. Geophysics Honours & Grad programs have been reviewed, with a decision pending.


As of November 1999
<table>
<thead>
<tr>
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<tr>
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<td></td>
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<td>1992</td>
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<td>Voluntary</td>
<td>Jan. 1/2000</td>
<td>$3000 fee plus expenses of 3-person team for on-site visit</td>
<td>U of M</td>
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<tr>
<td>Bachelor of Social Work</td>
<td>U of M plus Field Instruction</td>
<td>Canadian Association of Schools of Social Work</td>
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<tr>
<td></td>
<td>Centres*</td>
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<tr>
<td>Master of Social Work</td>
<td>U of M plus Field Instruction</td>
<td>Canadian Association of Schools of Social Work</td>
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</table>

* Field Instruction Centres include the Winnipeg Education Centre and the School of Social Work at Thompson.

<table>
<thead>
<tr>
<th>STUDENT AFFAIRS</th>
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<td>Counselling Service</td>
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</table>

**(Joint CPA/APA accreditation for internship training program) Re-Accreditation and site visit scheduled for summer 2000.**

**Counselling Service** | U of M | Canadian Psychological Association | Aug. 31, 2000 | Full | National | Voluntary | 2000 | $1215 | U of M |

Our IACS accreditation is extended for another year, until Sept. 30/2000.

As of November 1999
ART

None

EDUCATION

None of the programs in the Faculty of Education is subject to external accreditation.

MUSIC

None

No formal accreditation body for Schools of Music in Canada

Do have a set of curriculum guidelines published by the Canadian University Music Society. These are similar to the accreditation guidelines of the National Association of Schools of Music which does provide accreditation (though not really for professional status, more for student selection) in the United States.

PHYSICAL EDUCATION & RECREATION STUDIES

Athletic Therapy*

(Canadian Athletic Therapists Assoc.)

to be announced just submitted

provisional upon

National

Professional

contingent upon Approval & would

Approval

Correspond to School year

$200 application fee (1 time)

$250 per year after approval for

Annual program fee $2000 site visit (1 time)

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Approval

Correspond to School year

$200 application fee (1 time)

$250 per year after approval for

Annual program fee $2000 site visit (1 time)

Physical Education/Kinesiology

1999 - accreditation pilot

Likely in place by Fall 2000

* preparing package for application

As of November 1999