

Senate
Senate Chamber
Room 245 Engineering Building
WEDNESDAY, 1 December 1999
1:30 p.m.

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

1. Proposed Academic Schedule 2000-2001 Page 17
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
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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

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8.	Report of the Faculty Council of Science on a Proposal for B.Sc. Programmes <u>in the Department of Psychology</u>	Page 239
a)	Report of the Senate Committee <u>on Curriculum and Course Changes</u>	Page 251
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c)	Correspondence from the <u>Council on Post-Secondary Education</u>	Page 255

X ADDITIONAL BUSINESS

XI ADJOURNMENT

/sgp



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THE UNIVERSITY OF MANITOBA

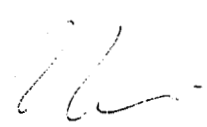
STUDENT RECORDS OFFICE

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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.

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att.

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Comments of the Executive Committee:
The Executive Committee endorses the schedule to Senate.



18 PROPOSED ACADEMIC SCHEDULE for 2000-2001

• Spring Intercession May 1 - June 27/00

• Summer Evening May 1 - Aug. 5/00

• Summer Day July 4 - August 26/00

March 2000

March 1 Wednesday 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.s), Pharmacy and Social Work. (See note 1 on final page)

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 13 - 17 Monday - Friday Mid-Term break for First & Second year Medicine.

April 2000

April 3 Monday Last date for receipt of applications for admission (including complete and official documentation) to the Faculty of Arts for 2000 Intercession, Summer Evening and Summer Day courses.

Last date for receipt of applications for admission to the Post Baccalaureate Certificate in Education for 2000 Intercession and Summer Evening Courses

NOTE: Consult the 2000 Summer Session Calendar regarding deadline dates for admission to University I and the Continuing Education Division (General Studies), for courses offered during Intercession, Summer Evening and Summer Day.

Cardiorespiratory Clinical Education commences for Second Year Physical Therapy students.

Last date for receipt of reports on Theses/Practica (and the corrected copies of the Theses/Practica) and comprehensive examinations for candidates for graduate degrees to be awarded in May of 2000.

April 8 Saturday Language reading tests for graduate students.

April 17 Monday Summer Fieldwork I commences for Second Year Occupational Therapy Students

Basic Fieldwork I commences for First Year Occupational Therapy Students.

April 21 GOOD FRIDAY. University closed. No classes or examinations

April 26 Friday Last date for registration in Intercession 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 Intercession/First Term Summer Evening exam series in June.

May 2000

May 1 Monday Last date for receipt of applications for admission to the Masters' Degree Program in Business Administration.

Last date for receipt of applications in the Faculty of Graduate Studies for Canadian applicants applying for July 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 direct admission to Music, Fine Arts and Engineering plus internal & external transfers to Engineering in the 2000-2001 Regular Session. (See note 1 on final page)

Recommended date for submission of undergraduate applications to University I. (see also July 4, 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 II begins for Third Year Occupational Therapy Students

Classes begin in Spring Intercession and Summer Evening.

May 1 - 4 Monday - Thursday Auditions for prospective Bachelor of Music Degree Students.

May 5 Friday Medicine Four clerkship closes.

May 6 Saturday Annual Traditional Graduation Powwow in honour of Aboriginal graduates.

May 9 - 10 Tuesday - Wednesday Medical Council of Canada Examinations.

May 12 Friday Basic Fieldwork I ends for First Year Occupational Therapy Students.

Last day of classes for First & Second Year Medicine.*

May 22 Monday VICTORIA DAY. University closed. No classes or examinations.

May 26 Friday Summer Fieldwork I ends for second year Occupational Therapy students.

May 31 - June 1 Wednesday - Thursday One Hundred and Twenty First Annual Convocation.

June 2000

June 1 Thursday Last date for receipt of applications for supplemental examinations in Third Year Medical Rehabilitation.

Supplemental examinations in Diploma Program in Agriculture.

Last date for receipt of applications for admission to the Post Baccalaureate Certificate in Education program for 2000 Summer Day Courses.

Last date for receipt of official documentation (e.g. transcripts) from applicants to Dental Hygiene for the 2000-2001 Regular Session.

June 2 Friday Deadline date for receipt of complete and official university transcripts requested by the Enrolment Services/Admissions Office for the Faculty of Social Work (except Distance Education Students - See June 8).

Last date for receipt of applications for supplemental examinations in First and Second Year and Physical Therapy degree completion programs of Medical Rehabilitation.

Last date for submission of final official transcript for any course work completed in the 1999-2000 Academic year from applicants to the 2000-2001 After Degree B.Ed. program.

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 Enrolment Services/Admissions Office for the Faculties of Social Work (Distance Education), Medical Rehabilitation, Environmental Design, Interior Design and Management applicants whose qualifying year is complete. (see also July 26)

June 9 Friday Summer Fieldwork II ends for Third Year Occupational Therapy students.

June 12 Monday Deadline for receipt by 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 applicants applying for January 2001.

June 23 Friday Classes end in Spring Intercession.

June 27 Tuesday Exams end in Spring Intercession.

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 I, the Continuing Education Division (General Studies) and Internal and External Transfers to the Faculty of Arts for 2000-2001 Regular Session. (See notes below and note 1 on final page)

Deadline for receipt of applications for University I, Arts, Science and Continuing Education Division (General Studies) from the 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 in-person up to September 1, 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, Nursing (4 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 autumn supplemental examinations in those faculties and schools offering these, 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 students outside of North America (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 date 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 indicated in June 8 above and in August 31 following).

July 14 Friday Last date for distribution of Masters' theses/practica (to examining committee) 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.

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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 Baccalaureate 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.

Inaugural 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/Practica (and the corrected copy of the Theses/Practica) and comprehensive examinations for candidates for graduate degrees to be awarded in October of 2000.

August 29 Tuesday Last day for registration and fee payment in Medicine.

August 31 Thursday Last date for in-person undergraduate applications 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 categories.

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 5 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.

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 fee 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 - 20 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). A financial penalty is assessed on all late registrations during this period.

September 9 Saturday Language reading tests 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 Wednesday Registration Revisions and Late Registration in courses other than those offered in second term only, including Challenge for Credit, are not 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 Wednesday Last date for registration revisions in first term electives in Diploma Program in Agriculture. First term and full courses dropped from the Diploma Program after this date are recorded as Voluntary Withdrawals. (See refund schedule for financial implications.)

September 29 Friday Medicine III (Link Period) ends.

Basic Fieldwork II ends for Second Year Occupational Therapy Students.

October 2000

October 2 Monday Last date for receipt of internal and external transfer applications for admission (including complete documentation) to the Faculty of Arts from applicants wishing to take Distance Education courses starting in January 2001.

NOTE: Applications for admission to the Faculty of Arts to take on-campus courses starting in January 2001 are not permitted.

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

October 2 Monday Clinical Clerkship in Medicine begins.

October 9 Monday THANKSGIVING. University closed. No classes or examinations.

October 17 Tuesday Evening of Excellence

October 18 Wednesday Financial Aid and Awards - Entrance Scholarship Presentation and Reception.

October 19 Thursday Thirty-Third Annual Fall Convocation.

October 27 Friday First Term lectures end 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 30 - November 3 Monday - Friday Examination period for first term of Fourth Year Pharmacy.

November 2000

November 1 Wednesday Last date for receipt of applications for mid-session (Second Term) transfer to the Faculty of Human Ecology.

Last date for receipt by mail of applications for admission to University I, Science and the Continuing Education Division (General Studies) for second term credit courses. (See note 1 on final page).

NOTE: Applications for admission to University I, Science and the Continuing Education Division (General Studies) with complete official documentation, are permitted (in-person) until December 12, 2000.

Last date for the receipt of registration forms and fee payment by mail from students outside of North America wishing to take Distance Education courses commencing in January. For further details, please consult the 2000-2001 Distance Education Program Guide.

Last date for distribution of Masters' Theses/Practica (to Examining Committee) from students expecting to graduate in February 2001.

Last date for receipt of application in the Faculty of Graduate Studies for Canadian applicants applying for January 2001.

November 6 Monday Orientation for experiential rotations - all Fourth Year Pharmacy students.

November 13 MONDAY HOLIDAY IN LIEU OF REMEMBRANCE DAY. University closed. No classes or examinations.

November 14 Tuesday First Term experiential rotations begin in Fourth Year Pharmacy.

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

November 15 Wednesday Last date for Voluntary Withdrawal without academic penalty from all first term half-courses except Education courses in the Bachelor of Education (see registration guide). (Including Diploma Program in Agriculture) Note that some courses have irregular voluntary withdrawal and refund schedules. Please consult the faculty chapters of the Registration Guide.

Last date for the receipt of applications for admission to Medicine for the 2001-2002 Session.

December 2000

December 1 Friday Last date for receipt of applications to Masters' and Ph.D. programs in Social Work from applicants residing outside of Canada at date of application.

Last date for receipt of University I, Engineering and Nursing (off-campus) applications for consideration for advanced early admission for Manitoba/Northwestern Ontario high school applicants.

Last date for receipt of applications for admission to the Post Baccalaureate Certificate in Education program for second term courses

*Last day of lectures in Diploma Program in Agriculture.

December 4 Monday Last day of lectures in Social Work.

December 4 - 11 Monday - Monday Examination period in Diploma Program in Agriculture.

December 6 Wednesday *Last day of lectures in Agricultural and Food Sciences (Degree), Architecture (including Interior Design and Environmental Design), Arts, Education except Education courses in the Bachelor of Education (see registration guide), Engineering, Fine Arts, Human Ecology, Management, Music, Nursing, Pharmacy (except for Fourth Year), Physical Education/Recreation Studies, Science, Social Work and University I.

Last date for receipt by the Student Records Office of Graduation Application forms from students who expect to graduate in February and May of 2001.

On this date in 1988, 14 women were murdered at l'École Polytechnique, Université de Montréal. The University remembers these women at memorial events scheduled on or near this date.

December 7 - 20 Thursday - Wednesday Examination period. Students are reminded that they must remain available until all examination and test obligations have been fulfilled.

December 8 Friday *Last day of lectures in Law, First and Second Years.

Field instruction ends in Second and Third Year Social Work.

*Last day of lectures in Dentistry (All Years) and Dental Hygiene (All Years).

February 9 Friday Second Term experiential rotations end in Fourth Year Pharmacy.

Advanced Fieldwork ends 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 12 - 16 Monday - Friday MID-TERM BREAK. No classes or examinations, except for Medicine, Fourth Year Pharmacy, Third Year Physical Therapy and Second Year Occupational Therapy students.

February 19 Monday Last date for distribution of Masters' Theses/Practica (to Examining Committee) from students expecting to graduate in May of 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 Masters' 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.s), Pharmacy and Social Work. (See note 1 on final 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 for Canadian applicants applying for May 2001.

March 5 - Monday 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 schedule 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 in all Faculties and Schools (except students in the Diploma Program in Agriculture. See March 6 and Education courses in the Bachelor of Education see registration guide). (See Refund Schedule 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 - 16 Monday - Friday Mid-Term break for First and Second Year Medicine.

March 23 Friday *Last day of lectures in Diploma Program in Agriculture.

* Last day of lectures in Third Year Pharmacy.

March 26 - March 30 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 reports on Theses/Practica (and the corrected copies of the Theses/Practica) and comprehensive examinations for candidates for graduate degrees to be awarded in May of 2001.

Last date for receipt of applications from Internal and External Transfer students (including all complete and official documentation) to the Faculties of Arts and Science for 2001 Intercession, Summer Evening and Summer Day courses. See the Registration Guide for dates and information about transferring from University 1 to Arts and Science.

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Last date for receipt of application for admission to the Post Baccalaureate Certificate in Education program for the 2001 Intercession and Summer Evening courses.

NOTE: Consult the 2001 Summer Session Calendar regarding deadline dates for admission to University 1 and the Continuing Education Division (General Studies), for courses offered during Intercession, Summer Evening and Summer Day.

End of Examinations and Second Term for the Diploma Program in Agriculture.

Cardiorespiratory Clinical Education begins for First Year Physical Therapy Students.

April 2 - 20 Monday - 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 9 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 examination 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 13 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 16 - 23 Monday to Monday * Examination period for fourth year Dentistry.

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

April 20 Friday Graduation Ceremony for School of Agriculture.

April 26 Wednesday End of Examinations and Second Term in those Faculties and Schools where examinations commenced April 9.

Term ends for Third 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 1.

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

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 Intercession and Summer Evening courses without late registration fee.

Classes begin in Intercession and Summer Evening 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 I and the Continuing Education Division for second term credit courses. Applicants must provide complete official documentation at the time of application.

December 15 Friday Medical Rehabilitation closes (All Years).

First Term experiential rotations end in Fourth Year Pharmacy.

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

Clinics End - Fourth Year Dentistry.

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

December 22 Friday Medicine IV Clerkship closes until January 3.

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.

Neurogeriatrics Clinical Education begins for Third Year Physical Therapy students.

Last date for receipt of reports on theses/practica (and the corrected copies of the theses/practica) and comprehensive examinations for candidates for graduate degrees to be awarded in February of 2001.

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

January 2 - 15 Tuesday - Monday Period for registration and registration revisions in second term half-courses in all programs except the Agriculture Diploma Program (See January 11).

January 3 Wednesday Supplemental examinations in Diploma Program in Agriculture.

January 6 Saturday Language reading tests for graduate students.

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

January 11 Thursday Last date for registration and/or registration revisions in Diploma Program in Agriculture. Second term courses dropped from the Diploma Program in Agriculture after this date are recorded as Voluntary Withdrawals.

January 18 Monday Last date for registration in second term half courses, including Challenge for Credit, and/or registration revisions in all programs except the Diploma Program in Agriculture (See January 11) and Education courses 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 any program except the Diploma Program in Agriculture and Education courses in the Bachelor of Education (see registration guide), are recorded as Voluntary Withdrawals. (See Refund Schedule for financial implications.)

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

Last date for receipt of applications to Masters' and Ph.D. Programs in Social Work from applicants residing in Canada at 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 Net-Based Study.

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

Auditions for prospective Bachelor of Music Degree students.

May 1 - 4 Tuesday - Friday Auditions for prospective Music Majors.

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May 4 Friday Medicine IV Clerkship closes.

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

May 8 - 9 Tuesday - Wednesday Medical Council of Canada Examinations.

May 10 Thursday Last day of lectures in Second Year Medicine.

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

Last day of classes in First & Second Year Medicine *

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

May 26 Friday Summer Fieldwork I ends for Second Year Occupational Therapy students.

May 30 - 31 Wednesday - Thursday One Hundred and Twenty Second Annual Spring Convocation.

June 2001

June 8 Friday Summer Fieldwork II ends for Third Year Occupational Therapy students.

July 2001

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

July 3 Tuesday Classes begin in Summer Day 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.

Instructors should be notified of 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 Session are published in a Registration Guide which is issued to all returning and new students and sent on request to others interested in this information.

For further information on registration activities contact:

Student Records Office
Room 400 University Centre
The University of Manitoba
Winnipeg, Manitoba
R3T 2N2
Phone 474-9423

NOTES:

- 1) STUDENTS PLANNING TO TAKE COURSES THROUGH THE DISTANCE EDUCATION PROGRAM SHOULD CONSULT THE ACADEMIC SCHEDULES/IMPORTANT DATES CONTAINED IN THE DISTANCE EDUCATION PROGRAM GUIDE.

As at November 16, 1999

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version 4

30 September 1999

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

Preamble

Since last reporting to Senate, the Senate Committee on Curriculum and Course Changes met on 14, 15, 18 and 19 October 1999 to consider curriculum and course changes from Faculties and Schools.

Observations

1. General

In keeping with past practice most changes for departments totalling less than ten credit hours are forwarded to Senate for concurrence without debate. This is in accordance with the Senate's recommendation approved 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 Agricultural 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 **065.0YC 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 programme 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 programmes 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 **003.1BC 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 **099.3LM 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**

Introductory Italian. Similarly, course **044.123 Intermediate Italian** will be re-introduced as **044.22Z 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: **008.090 Elementary German** will become **008.1XX Elementary German**, **008.091 Beginning German (008.091F Introduction à l'allemand)** will become **008.1XY Beginning German (008.1XYF Introduction à l'allemand)**, **008.120 Intermediate German (008.120F 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**, **008.225 Deutsche Sprachpraxis I** will become **008.3XX Deutsche Sprachpraxis I**, and **008.226 Business German (008.226F 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: **011.292W 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 1870**, **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, **011.126W 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 1960s 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 099 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 090 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 090 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 **077.32X Social Inequality (077.32X 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 Instructions course for majors and minors in Art, Music, Drama in the Senior Years programme (Year II).

Course **063.161 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 *063.216 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 *063.206 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 (MEIIP). 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 1987, 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 96 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 Programme 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 wanting 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 RehabilitationOccupational Therapy Programme

Course 068.146 **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 allow individuals to re-enter the profession after some time away from it.

9. School of Music

In order to meet the University 1 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 BN 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 **007.481 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**, **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, 013.226F 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, 013.246 Linear Algebra II, 013.246F Algèbre linéaire, 013.247 Combinatorial Mathematics, 013.247F Mathématiques combinatoires, 013.249 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, 136.2FAF Introduction à la théorie des nombres, 136.2FF Modern Geometry, 136.2FFF Géométrie moderne, 136.2GA Numerical Mathematics I, 136.2GAF Mathématiques numériques I, 136.2HA Calculus IIIA, 136.2HAF Calcul IIIA, 136.2HB Calculus IIIB, 136.2HBF Calcul IIIB, 136.2HF Calculus, 136.2JA Ordinary Differential Equations with Applications I, and 136.2JAF Équations différentielles ordinaires et leurs applications I.

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, 006.336 Applied Linear Algebra, 006.337 Introduction to Mathematical Modelling, 006.347 Partial Differential Equations I, 013.332 Advanced Calculus, 013.333 Modern Algebra, 013.338 Metric Spaces, 013.340 Advanced Calculus, 013.345 Advanced Algebra, 013.347 Combinatorial Mathematics and Probability, 013.349 Theory of Numbers, 013.370 Problem-Solving Seminar, 013.373 Differential Equations I, 013.374 Differential Equations II, 013.375 Modern Geometry, 013.376 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: 006.260 Mathematical Methods for Engineers I, 006.261 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 Pure Mathematics and 013.238FM Concepts modernes en mathématiques pures.

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, 136.2BA Mathematical Methods for Engineers I, 136.2BB Mathematical Methods for Engineers II, and 136.2BC 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: 006.343 Mathematical Methods and Complex Analysis, 013.355 Advanced Mathematics for Physicists, 006.360 Mathematical Methods for Engineers III, and

006.371 Applied Discrete Mathematics.

136.119F is being introduced in French to replace the deleted course **013.238F** (the English version of 136.119 was introduced in December of 1996).

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 **016.080 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 **016.261 Circuit Theory and Introductory Electronics** is to be modified, as the Faculty of Engineering recently introduced a new course, **130.118**, with significant overlap with 016.261. 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**, **016.353 Modern Physics IIIA**, and **016.355 Nuclear Physics IIIM**.

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 022.467 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 1994, 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 Programme (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)

Focusses 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

Terms of Reference: *Senate Handbook* (Revised 1992), pp. 70-71.

/sgp

1. Faculty of Agricultural and Food SciencesAgriculture Diploma Curriculum

Courses to be deleted:

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

Courses to be introduced:

034.0YB	<u>Shop Methods (0-0:3-L)</u>	+4
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 034.0YB and the former 034.062.*

034.0YC Water Management (3-L:0-0)

+4

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 034.0YC and the former 034.063.*

034.0YD Agricultural Buildings and Environments (3-L:0-0)

+4

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 034.0YD and the former 034.064 or 035.065.*

035.0XA Animal Biology and Nutrition (3-L:0-0)

+4

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 035.0XA and the former 035.040 or 035.041.*

035.0YA Beef Cattle Production and Management (3-L:0-0)

+4

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: 035.0XA or equivalent. Students may not hold credit for 035.0YA and the former 035.061.*

035.0YB Dairy Cattle Production and Management (3-L:0-0)

+4

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: 035.0XA or equivalent. Students may not hold credit for 035.0YB and the former 035.062.*

035.0YC Swine Production & Management (0-0:3-L)

+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: 035.0XA or equivalent. Students may not hold credit for 035.0YC and the former 035.064.*

035.0YD Poultry Production and Management (3-L:0-0)

+4

The poultry industry; marketing system, breeding, hatchery practices, management and feeding of large scale turkey and chicken enterprises. *Pre-requisite: 035.0XA or equivalent. Students may not hold credit for 035.0YD and the former 035.065.*

035.0YE Horse Production and Management (0-0:3-L)

+4

Principles of horse production, including genetics and breeding, reproductive management, nutrition and health. Applications to major sections of the horse industry. *Pre-requisite: 035.0XA or equivalent. Students may not hold credit for 035.0YE and the former 035.066.*

035.0YF Special Topics in Livestock Management (3-0)

+3

Selected topics of current interest in livestock management. *Pre-requisite: written consent of Director of the School of Agriculture.*

- 038.0YA Pest Management and Farm Insects (3-L:0-0) +4
 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 038.0YA and the former 038.060.*
- 039.0YA Forage and Pasture Management (3-L:0-0) +4
 For forage crops and the continuum of improved and unimproved pasture land, a discussion of production practices including: choice of species and cultivars of forage crops, cultural management including tillage practices, pest control, forage harvesting, grazing management and seed production. *Pre-requisite: 065.0XB. Students may not hold credit for 039.0YA and the former 039.060.*
- 039.0YB Special Crops (3-L:0-0) +4
 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.*
- 039.0YC Weed Management (0-0:3-L) +4
 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.*
- 039.0YD Plant Disease Management (3-L:0-0) +4
 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 039.063.*
- 039.0YE Landscape Horticulture (0-0:3-L) +4
 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 039.0YE and the former 039.065.*
- 039.0YF Diversification with Horticultural Crops (0-0:3-L) +4
 Principles of the uniqueness of production of horticultural crops including vegetables, fruits, herbs, spices and nutraceuticals. The potential for including these alternative crops in Prairie agriculture will be discussed. *Students may not hold credit for 039.0YF and the former 039.073.*
- 039.0YG Special Topics in Crop Management +3
 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 (0-0:3-L) +4
 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-L:0-0) +4
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 (0-0:3-L) +4
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 040.061.*
- 061.0XA Agricultural Economics and Marketing I (3-L:0-0) +4
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.*
- 061.0XB Agricultural Economics and Marketing II (0-0:3-L) +4
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 061.0XB and the former 061.065.*
- 061.0XC Financial Management I (3-L:0-0) +4
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 061.0XC and the former 061.042.*
- 061.0XD Financial Management II (0-0:3-L) +4
Study of analysis of financial statements and financial information by decision makers managing the finances of farms and agricultural businesses. *Pre-requisite: 061.0XC. Students may not hold credit for 061.0XD and the former 061.043.*
- 061.0YA Agribusiness Management (3-L:0-0) +4
The application of economic, accounting and management principles to organizing, operating and managing an agribusiness. *Students may not hold credit for 061.0YA and the former 061.060.*
- 061.0YB Agricultural Finance and Credit (0-0:3-L) +4
Application of financial management concepts in evaluating investment options and risk in farm and agribusiness decision-making. *Pre-requisite: 061.0XC. Students may not hold credit for 061.0YB and the former 061.061.*
- 061.0YC Merchandising and Sales +3
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 061.0YC and the former 061.062.*
- 061.0YD Agricultural Policy (0-0:3-L) +3
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 061.0YD and the former 061.064.*

- 061.0YE Farm Business Management (0-0:3-1) +4
Application of decision making principles in terms of farm production, finance and marketing. *Pre-requisite: 061.0XD. Students may not hold credit for 061.0YE and the former 061.066.*
- 061.0YF Financial Risk Management +3
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. *Pre-requisites: 061.0XB and 061.0XD.*
- 061.0YG Special Topics in Business Management +3
Selected topics of current interest in Business Management. *Pre-requisite: written consent of Director of the School of Agriculture.*
- 065.0XA Communication and Learning Skills (2-3:0-0) +4
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.*
- 065.0XB Introduction to Soils and Crops (3-1:0-0) +4
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) +4
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. *Pre-requisite: all required courses from first year. Students may not hold credit for 065.0YA and the former 065.062.*
- 065.0YB Management Planning Project II (0-0:1-3) +4
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. *Pre-requisite: 065.0YA. Students may not hold credit for 065.0YB and the former 065.062.*
- 065.0YC Special Topics in General Agriculture +3
Selected topics of current interest in General Agriculture. *Pre-requisite: 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.

Existing Program	Proposed Program																																		
Requirements for the Diploma in Agriculture To qualify for the Diploma in Agriculture a student must have attained a Cumulative GPA of at least 2.00 and a grade of "D" or better in courses totalling <u>26</u> 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.	Requirements for the Diploma in Agriculture To qualify for the Diploma in Agriculture a student must have attained a Cumulative GPA of at least 2.00 and a grade of "D" or better in courses totalling <u>23</u> 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.																																		
Part-Time vs. Full-Time Status for Students 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 <u>47 to 49</u> 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.	Part-Time vs. Full-Time Status for Students 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 <u>45 to 48</u> 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.																																		
Dean's Honour Roll Students registered in <u>38-49</u> credit hours and who obtain a sessional GPA of 3.5 or higher will be placed on the Dean's Honour Roll.	Dean's Honour Roll Students registered in <u>at least 36</u> credit hours and who obtain a sessional GPA of 3.5 or higher will be placed on the Dean's Honour Roll.																																		
PROGRAMS 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.	PROGRAMS 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.																																		
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Existing Program		Proposed Program			
Second Year*		Second Year*			
038.060	Farm Insects (fall term)	3	038.0XA Pest Management and Farm Insects (fall term)	4	
061.065	Advanced Agricultural Marketing (fall term)	3	065.0YA Management Planning Project I (fall term)	4	
061.067	Agriculture and the Law (spring term)	3	065.0YB Management Planning Project II (spring term)	4	
065.060	Field Studies (summer + fall term)	3			
065.062	Farm Planning Project (both terms)	6			
			Total credit hours	12	
	Total credit hours	18	plus courses, according to option*		
	plus courses, according to option*		Total credit hours for prescribed courses, common for all students		
			52		
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.		
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 students will be required to elect one of four options by the end of first term, first year. Each of these four options has a series of required courses. However, within each option there are also unrestricted electives available to the student who wishes to blend training available in two or more option areas or to increase somewhat the degree of specialization.			Options In order to accommodate a modest level of specialization, the students will be required to elect one of four options by the end of first term, first year. Each of these four options has a series of required courses. However, within each option there are also unrestricted electives available to the student who wishes to blend training available in two or more option areas 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 employees, managers and/or business owners in the agricultural service sector (agricultural lending, fertilizer, feed and chemical sales, etc.).			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 service sector (agricultural lending, fertilizer, feed and chemical sales, etc.).		
Prescribed Courses for Farm and Agribusiness Option			Prescribed Courses for Business Management Option		
Course No.	Credit Hours	Course No.	Credit Hours		
061.060	Agribusiness Management	061.0YA	Agribusiness Management		4
061.064	Agricultural Policy	061.0YE	Farm Business Management		4
061.066	Advanced Farm Business Management				
Plus at least one of the following:		Plus at least two of the following:			
034.060	Farm Machinery	061.0YB	Agricultural Finance and Credit		
034.063	Water Management	061.0YC	Merchandising and Sales		
034.064	Agricultural Buildings	061.0YD	Agricultural Policy		
034.065	Environments in Agricultural Buildings	061.0YF	Financial Risk Management		6, 7 or 8
034.066	Materials Handling and Electrical Controls				
Plus at least one of the following:		Plus one Biosystems Engineering course for core:			
061.061	Farm Business Finance	034.040	Farm Power		
061.062	Merchandising and Selling	034.0YC	Water Management		
061.063	Farm Property Appraisal	034.0YD	Agricultural Buildings and Environments		
		034.066	Materials Handling		4
Total prescribed credit hours, within option 15 or 16		Total prescribed credit hours, within option 18, 19 or 20			
Plus 21 or 22 credit hours of electives, to complete 90 credit hours within the program.		Plus 21-23 credit hours of electives, to complete 93 credit hours within the program.			

Existing Program	Proposed Program																		
<p>Crop Management Option (including orientations towards field or horticultural crops): 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 enterprises or for those people who are interested in careers in industries or businesses that provide services to these types of farms (eg. crop supply businesses).</p>	<p>Crop Management Option: This option is designed to emphasize soil and crop management. It is designed for people who plan to manage farms where 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 (eg. crop supply businesses).</p>																		
<p>Prescribed Courses for Crop Management Option</p>	<p>Prescribed Courses for Crop Management Option</p>																		
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040.0YB Soil Fertility	4																		
<p><i>In Addition, Select Orientation A or B</i></p>	<p><i>Plus at least one of the following:</i></p>																		
<p>Crop Management Orientation A - Field Crops</p>	<p>039.0YA Forage and Pasture Management</p>																		
<table border="1"> <tbody> <tr> <td>034.060 Farm Machinery</td><td>4</td></tr> <tr> <td>040.060 Soil Conservation and Management</td><td>3</td></tr> </tbody> </table>	034.060 Farm Machinery	4	040.060 Soil Conservation and Management	3	<table border="1"> <tbody> <tr> <td>039.0YB Special Crops</td><td>4</td></tr> <tr> <td>039.0YF Diversification With Horticultural Crops</td><td>4</td></tr> </tbody> </table>	039.0YB Special Crops	4	039.0YF Diversification With Horticultural Crops	4										
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<table border="1"> <tbody> <tr> <td>039.060 Forage Crop Production</td><td>3</td></tr> <tr> <td>039.061 Special Crops</td><td>3</td></tr> <tr> <td>039.065 General Horticulture</td><td>3</td></tr> </tbody> </table>	039.060 Forage Crop Production	3	039.061 Special Crops	3	039.065 General Horticulture	3	<table border="1"> <tbody> <tr> <td>034.040 Farm Power</td><td>4</td></tr> <tr> <td>034.0YC Water Management</td><td>4</td></tr> <tr> <td>034.066 Materials Handling</td><td>4</td></tr> </tbody> </table>	034.040 Farm Power	4	034.0YC Water Management	4	034.066 Materials Handling	4						
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034.040 Farm Power	4																		
034.0YC Water Management	4																		
034.066 Materials Handling	4																		
<p><i>Total prescribed credit hours, within option</i> 19</p>	<p><i>Total prescribed credit hours, within option</i> 24</p>																		
<p><i>Plus 18 credit hours of electives, to complete 96 credit hours in the program.</i></p>	<p><i>Plus 17 credit hours of electives, to complete 93 credit hours in the program.</i></p>																		
<p>Crop Management Orientation B - Horticulture</p>																			
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Existing Program	Proposed Program																																								
<p>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).</p> <p>Prescribed Courses for Livestock Management Option</p> <table border="1"> <thead> <tr> <th>Course No.</th><th>Credit Hours</th></tr> </thead> <tbody> <tr> <td>035.060 Animal Health and Welfare</td><td>3</td></tr> <tr> <td>039.060 Forage Crop Production</td><td>3</td></tr> </tbody> </table> <p><i>Plus at least one of the following:</i></p> <table border="1"> <tbody> <tr> <td>035.061 Beef Cattle</td><td></td></tr> <tr> <td>035.062 Dairy Cattle Production</td><td></td></tr> <tr> <td>035.063 Sheep Production</td><td>3</td></tr> </tbody> </table> <p><i>Plus at least one of the following:</i></p> <table border="1"> <tbody> <tr> <td>035.064 Swine Production</td><td></td></tr> <tr> <td>035.065 Poultry Principles and Practices</td><td>3</td></tr> </tbody> </table> <p><i>Plus at least one of the following:</i></p> <table border="1"> <tbody> <tr> <td>034.060 Farm Machinery</td><td></td></tr> <tr> <td>034.065 Environments in Agricultural Buildings</td><td>3 or 4</td></tr> </tbody> </table> <p>Total prescribed credit hours, within option 15 or 16</p> <p><i>Plus 21 or 22 credit hours of electives, to complete 96 credit hours in the program.</i></p>	Course No.	Credit Hours	035.060 Animal Health and Welfare	3	039.060 Forage Crop Production	3	035.061 Beef Cattle		035.062 Dairy Cattle Production		035.063 Sheep Production	3	035.064 Swine Production		035.065 Poultry Principles and Practices	3	034.060 Farm Machinery		034.065 Environments in Agricultural Buildings	3 or 4	<p>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).</p> <p>Prescribed Courses for Livestock Management Option</p> <table border="1"> <thead> <tr> <th>Course No.</th><th>Credit Hours</th></tr> </thead> <tbody> <tr> <td>035.060 Animal Health and Welfare</td><td>3</td></tr> <tr> <td>039.0YA Forage and Pasture Management</td><td>4</td></tr> </tbody> </table> <p><i>Plus at least one of the following:</i></p> <table border="1"> <tbody> <tr> <td>035.0YA Beef Cattle Production and Management</td><td></td></tr> <tr> <td>035.0YB Dairy Cattle Production and Management</td><td>4</td></tr> </tbody> </table> <p><i>Plus at least one of the following:</i></p> <table border="1"> <tbody> <tr> <td>035.0YC Swine Production and Management</td><td></td></tr> <tr> <td>035.0YD Poultry Production and Management</td><td></td></tr> <tr> <td>035.0YE Horse Production and Management</td><td>4</td></tr> </tbody> </table> <p><i>Plus one Biosystems Engineering course for core:</i></p> <table border="1"> <tbody> <tr> <td>034.0YD Agricultural Buildings and Environments</td><td></td></tr> <tr> <td>034.066 Materials Handling</td><td>4</td></tr> </tbody> </table> <p>Total prescribed credit hours, within option 19</p> <p><i>Plus 22 credit hours of electives (6 courses), to complete 93 credit hours in the program.</i></p>	Course No.	Credit Hours	035.060 Animal Health and Welfare	3	039.0YA Forage and Pasture Management	4	035.0YA Beef Cattle Production and Management		035.0YB Dairy Cattle Production and Management	4	035.0YC Swine Production and Management		035.0YD Poultry Production and Management		035.0YE Horse Production and Management	4	034.0YD Agricultural Buildings and Environments		034.066 Materials Handling	4
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Existing Program	Proposed Program
<p>General Agriculture Option This option is designed to expose the student to crop and livestock production, agricultural economics 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.</p>	<p>General Agriculture Option This option is designed to expose the student to crop and livestock production, agricultural economics 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.</p>
<p>Prescribed Courses for General Agriculture Option</p>	<p>Prescribed Courses for General Agriculture Option</p>
<p><i>Course No. Credit Hours</i></p>	<p><i>Course No. Credit Hours</i></p>
<p>034.066 Materials Handling and Electrical Controls 4</p>	
<p><i>Plus at least one of the following:</i></p>	<p><i>At least one of the following:</i></p>
<p>034.060 Farm Machinery</p>	<p>035.0YA Beef Cattle Production and Management</p>
<p>034.061 Welding</p>	<p>035.0YB Dairy Cattle Production and Management</p>
<p>034.062 Shop Methods</p>	<p>035.0YC Swine Production and Management</p>
<p>034.063 Water Management</p>	<p>035.0YD Poultry Production and Management</p>
<p>034.064 Agricultural Buildings</p>	<p>035.0YE Horse Production and Management 4</p>
<p>034.065 Environments in Agricultural Buildings 3 or 4</p>	<p><i>Plus at least one of the following:</i></p>
<p><i>Plus at least one of the following:</i></p>	<p>039.0YA Forage and Pasture Management</p>
<p>035.061 Beef Cattle</p>	<p>039.0YB Special Crops 4</p>
<p>035.062 Dairy Cattle Production</p>	<p>039.0YF Diversification with Horticultural Crops</p>
<p>035.063 Sheep Production</p>	<p><i>Plus at least one of the following:</i></p>
<p>035.064 Swine Production</p>	<p>040.0YA Soil Conservation and Management</p>
<p>035.065 Poultry Principles and Practices 3</p>	<p>040.0YB Soil Fertility 4</p>
<p><i>Plus at least one of the following:</i></p>	<p><i>Plus at least one of the following:</i></p>
<p>039.060 Forage Crop Production</p>	<p>061.0YA Agribusiness Management</p>
<p>039.061 Special Crops</p>	<p>061.0YB Farm Business Management 4</p>
<p>039.065 General Horticulture 3</p>	<p><i>Plus one Binaxsystems Engineering course for core:</i></p>
<p><i>Plus at least one of the following:</i></p>	<p>034.040 Farm Power</p>
<p>040.060 Soil Conservation and Management</p>	<p>034.0YC Water Management</p>
<p>040.061 Soil Fertility and Fertilizers 3</p>	<p>034.0YD Agricultural Buildings and Environments</p>
<p><i>Plus at least one of the following:</i></p>	<p>034.066 Materials Handling 4</p>
<p>061.060 Agribusiness Management 3</p>	<p><i>Total prescribed credit hours, within option 20</i></p>
<p>061.064 Agricultural Policy</p>	<p><i>Plus 21 credit hours of electives, to complete 93 credit hours in the program.</i></p>
<p><i>Total prescribed credit hours, within option 19 or 20</i></p>	
<p><i>Plus 17 or 18 credit hours of electives, to complete 96 credit hours in the program.</i></p>	

Existing Program			Proposed Program		
Additional Courses (includes electives and courses required within options)			Additional Courses (includes electives and courses required within options)		
Course No.		Credit Hours	Course No.		Credit Hours
034.060	Farm Machinery	4	034.040	Farm Power	4
034.061	Welding	3	034.0YD	Shop Methods	4
034.062	Shop Methods	3	034.0YC	Water Management	4
034.063	Water Management	3	034.0YD	Agricultural Buildings and Environments	4
034.064	Agricultural Buildings	3	034.066	Materials Handling	4
034.065	Environments in Agricultural Buildings	3	035.060	Animal Health and Welfare	3
034.066	Materials Handling and Electrical Controls	4	035.0YA	Beef Cattle Production and Management	4
035.060	Animal Health and Welfare	3	035.0YB	Dairy Cattle Production and Management	4
035.061	Beef Cattle	3	035.0YC	Swine Production and Management	4
035.062	Dairy Cattle Production	3	035.0YD	Poultry Production and Management	4
035.063	Sheep Production	3	035.0YE	Horse Production and Management	4
035.064	Swine Production	3	035.0YF	Special Topics in Livestock Management	3
035.065	Poultry Principles and Practices	3	038.061	Beekeeping	2
035.066	Horse Production and Management	3	039.0YA	Forage and Pasture Management	4
038.061	Beekeeping	2	039.0YB	Special Crops	4
039.060	Forage Crop Production	3	039.0YC	Weed Management	4
039.061	Special Crops	3	039.0YD	Plant Disease Management	4
039.062	Weed Control	3	039.0YE	Landscape Horticulture	4
039.063	Plant Diseases	3	039.066	Plant Propagation	4
039.065	General Horticulture	3	039.067	Landscape Plants	3
039.066	Plant Propagation	4	039.068	Landscape Design	3
039.067	Landscape Plants	3	039.069	Landscape Maintenance	3
039.068	Landscape Design and Construction	3	039.070	Nursery Management	3
039.069	Landscape Maintenance	3	039.071	Greenhouse Crop Production	3
039.070	Nursery Management	3	039.0YF	Diversification with Horticultural Crops	4
039.071	Greenhouse Crop Production	3	039.074	Commercial Fruit Production	3
039.073	Commercial Vegetable Production	3	039.0YB	Special Topics in Crop Management	3
039.074	Commercial Fruit Production	3	040.0YA	Soil Conservation and Management	4
040.060	Soil Conservation and Management	3	040.0YB	Soil Fertility	4
040.061	Soil Fertility and Fertilizers	3	061.0YA	Agribusiness Management	4
061.060	Agribusiness Management	3	061.0YB	Agricultural Finance and Credit	4
061.061	Farm Business Finance	3	061.0YC	Merchandising and Sales	3
061.062	Merchandising and Selling	3	061.0YD	Agricultural Policy	4
061.063	Farm Property Appraisal	3	061.0YE	Farm Business Management	4
061.064	Agricultural Policy	3	061.0YF	Financial Risk Management	3
061.066	Advanced Farm Business Management	3	061.0YG	Special Topics in Business Management	3
065.061	Advanced Communication and Rural Leadership	3	065.061	Advanced Communication and Rural Leadership	3
065.063	Special Project	3	065.063	Special Project	3
			065.0YC	Special Topics in General Agriculture	3

Department of Food Science

Courses to be deleted:

078.427	Market Milk Technology	-3
078.453	Processing of Plant Food Products	-3

Courses to be introduced:

078.4XX	<u>Introduction to Hazard Analysis and Critical Control Points (HACCP)</u>	+3
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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	<u>Baking Science and Technology (0-0:3-L)</u>	+3
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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	<u>Canadian Identity in the 20th Century: An Interdisciplinary Approach</u>	+3
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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/British colonization, Land/regions and Ethnic diversity. *Pre-requisite: 099.113 or six credit hours from the list of approved courses in Canadian Studies.*

NET CHANGE IN CREDIT HOURS: +3

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List of Approved Course in Canadian Studies

History

011.428	Topics in the Cultural History of Canada (C)	6
011.434	An Introduction to Archival Science (G) (H)	6
011.438*	Intellectual History of Canada (C) (H)	3

Icelandic

012.223	Contemporary Icelandic-Canadian Literature	3
012.230	Icelandic-Canadian Literature (H)	6
012.346	Laura Goodman Salvorson	3
012.444	The Icelanders in Canada (H)	3
012.445	Stephan G. Stephansson (H)	3

Interdisciplinary Courses

099.113	An Introduction to Canadian Studies	6
099.231*	The Documentary and Canadian Film	6
099.243	The Canadian film	3
099.310	The Ukrainian Arts in Canada	3
099.3XX	Canadian Identity in the 20 th Century: An Interdisciplinary Approach	3
099.441	Seminar in Canadian Studies (H)	6

(no further changes)

(Material to be added)

Department of Classics**Courses to be deleted:**

003.094	New Testament Greek	-6
003.095	Introduction to the Reading of Ancient Greek	-6
003.096	Introduction to the Reading of Latin	-6
003.124	Greek and Roman Culture and Civilization	-6

Courses to be Introduced:

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

Students may not hold credit for both 003.1CB and the former 003.124.

NET CHANGE IN CREDIT HOURS:

+6

CLASSICAL STUDIES (003C)

<i>PROGRAM</i>	<i>YEAR I</i>	<i>YEAR II</i>	<i>YEAR III</i>	<i>YEAR IV</i>
<i>GENERAL MAJOR</i> Total: 30 hours of credit	003.124 003.1CA and 003.1CB	(no changes)		
<i>ADVANCED MAJOR</i> Total: 48 hours of credit	003.124 003.1CA and 003.1CB	(no changes)		
<i>MINOR</i> Total: 18 hours of credit	003.124 003.1CA and 003.1CB	(no changes)		
(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)

~~Indicates material to be deleted~~

Indicates material to be added

Proposed Modification to Greek Major and Minor
1999-2000 General Calendar - Page 90

GREEK (003G)

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
ADVANCED MAJOR Total: 48 hours of credit	003-095 003-1AB	(no changes)		
MINOR Total: 18 hours of credit	003-095 003-1AB	(no changes)		

8.5.2 Program Information - Greek
Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in ~~003-095~~ ~~003-1AB~~ 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 ~~003-095~~ ~~003-1AB~~ 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)

~~Indicates material to be deleted~~

~~Indicates material to be added~~

Proposed Modification to Latin Major and Minor
1999-2000 General Calendar - Page 90

LATIN

<i>PROGRAM</i>	<i>YEAR I</i>	<i>YEAR II</i>	<i>YEAR III</i>	<i>YEAR IV</i>
<i>ADVANCED MAJOR</i> Total: 48 hours of credit	003-096 003.1AC	(no changes)		
<i>MINOR</i> Total: 18 hours of credit	003-096 003.1AC	(no changes)		

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~~ ~~003.1AC~~ 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~~ ~~003.1AC~~ 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)

~~Indicates material to be deleted~~

~~Indicates material to be added~~

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 regulations 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 099.344 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 hi-lighted

~~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
004.260	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

004.385*	Contemporary American Novel	6
004.387	Studies in American Literature	6
004.388	Studies in Canadian Literature	6
004.391	Studies in Modern Literature	6
004.392	Studies in Post-Modernism	6
004.393	Studies in International Literature	6

*No longer offered

French, Spanish and Italian

044.240*	Le roman du 19e siècle (B)	3
044.241*	Littérature du 18e siècle (B)	3
044.242*	Le théâtre du 20e siècle (B)	3
044.243*	Civilisation française (B)	3
044.350	Littérature du 17e siècle (B)	3
044.351*	Roman du 20e siècle (B)	3
044.352*	Poésie des 19e et 20e siècles (B)	3
044.353*	Littérature canadienne-française (B)	3
044.358	Travail indépendant (A, B)	3

*No longer offered

German and Slavic Studies

German

008.223	A Survey of German Culture	6
008.237	Modern German Literature in Translation	6
008.224*	Introduction to German Literature Since 1500	6
008.336*	German Literature of the Twentieth Century	6
008.459*	Nineteenth-Century German Prose	3
008.460*	Twentieth-Century German Drama	3

Ukrainian

052.242	Ukrainian Canadian Literature	3
052.363*	Ukrainian Novel	3
052.366*	Ukrainian Literature in the West	3
052.367	Contemporary Ukrainian Literature	3
052.368*	Ukrainian Masterworks in Translation	3
052.453*	Studies in the Russian Novel	3
052.454*	Modernism in Russian Literature	3
052.455*	Contemporary Russian Literature	3

Polish

052.232	An Outline of Polish Literature	6
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*No longer offered

Near Eastern and Judaic Studies

055.221	Modern Hebrew Literature	6
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List B
Faculty of Arts

Theatre

099.122	Introduction to Theatre	6
099.206*	History of the Theatre	6
099.215	Theatrical Techniques: Onstage	6
099.247	Fundamentals of Dramatic Analysis	3
099.248	Theatre History	3
099.321*	Contemporary Theatre Forms	6
099.346	Theory of Drama and Performance	3
099.347	Text and Performance	3

* No longer offered

School of Art

054.124	Introduction to Art A	6
or		
054.130	Introduction to Art B	6
054.340	Principles of Art Criticism	6
054.368	Modern Art I	3
054.369	Modern Art II	3
054.370	Modern Art III	3

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 & ItalianFrench

Course to be deleted:

044.092 Introductory French

-6

Course to be introduced:

044.1XX Introductory French

+6

A study of the fundamental structures of French, with oral and written practise. *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 practise 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)

Révision 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.*

Proposed modification to Calendar information
1999-2000 General Calendar - Page 102

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 044.092 and 044.120 is *French*. In courses 044.1XX 044.092 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)

~~Indicates material to be added~~

~~Indicates material to be deleted~~

Spanish

Course to be deleted:

044.090 Introductory Spanish

-6

Course to be introduced:

044.1YY Introductory Spanish

+6

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: 044.126 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 044.223. Pre-requisite: 044.126 or 044.127, or written consent of department head.*

044.254 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. Pre-requisite: 044.126 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

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL MAJOR Total: 30 hours of credit	044.1YY 044.090	(no changes)	(no changes)	
	(no changes)	(no changes)	(no changes)	
ADVANCED MAJOR	044.1YY 044.090	(no changes)	(no changes)	(no changes)
	(no changes)	(no changes)	(no changes)	(no changes)
MINOR Total: 18 hours of credit	044.1YY 044.090	(no changes)	(no changes)	
	(no changes)	(no changes)	(no changes)	
(no changes to footnotes)				

Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in ~~044.1YY (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 ~~044.1YY (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 044.1YY 044-090 by the Spanish section of the department. Special permission is required to enter a higher numbered course.

All Spanish courses except 044.1YY 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	+6
044.123	Intermediate Italian	+6
044.260	Advanced Italian	+6

Courses to be introduced:

044.1ZZ	<u>Introductory Italian</u>	+6
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An introduction to the Italian language for students with little or no knowledge of Italian. The course emphasizes the learning and practise of vocabulary, grammar and the development of both written and spoken Italian. A language laboratory will help students practise and improve their oral Italian. *Not open to students who have previously obtain 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	<u>Intermediate Italian</u>	+6
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This course consists of a thorough review of grammatical structures for students with previous knowledge of Italian. Readings of a number of twentieth-century Italian authors are used as a basis for discussion. Language study and practise is emphasized in the classroom and in the language laboratory. *Pre-requisite: 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	<u>Advanced Italian</u>	+6
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A selection of important works of 20th-century literature will be studied with special emphasis on neo-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 Sciascia. *Pre-requisite: 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

Proposed modification to Italian Minor Program
1999-2000 General Calendar - Page 104

8.11.5 Program Information: Italian (044I)

ITALIAN

Acting Head: A. Osborne

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
MINOR	044.1ZZ	044.2ZZ	044.3ZZ	
Total: 18 hours of credit	044.09+	044.123	044.260	

Minor Program

For entry to the Minor, the prerequisite is a grade of "C" or better in ~~044.1ZZ~~ 044.09+.

Other

All Italian courses except ~~044.1ZZ~~ 044.09+ 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:**

008.090	Elementary German	-6
008.091	Beginning German	-6
008.091F	Introduction à l'allemand	-6
008.120	Intermediate German	-6
008.120F	Allemand intermédiaire	-6
008.123	Continuing German: Grammar, Exercises, Selected Texts	-6
008.225	Deutsche Sprachpraxis I	-6
008.226	Business German	-6
008.226F	Cours d'allemand commercial	-6

Courses to be introduced:**008.1XX Elementary German +6**

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).*

008.1XYF Introduction à l'allemand +6

Trois heures de cours plus une heure de laboratoire de langue et une heure de conversation par semaine. Le cours est destiné aux étudiants et 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 l'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.*

008.1XY Beginning German +6

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).*

008.2XX Intermediate German +6

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.*

008.2XXF Allemand intermédiaire +6
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 année, 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 +6
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. Pre-requisite: 008.1XY (the former 008.091) or written consent of department head.*

008.3XX Deutsche Sprachpraxis I +6
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. Pre-requisite: 008.2XX (the former 008.120) or 008.2XY (the former 008.123).*

008.3XY Business German +6
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. Pre-requisite: 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 +6
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

8.13 GERMAN AND SLAVIC STUDIES

8.13.1 Program Information: German (008)

GERMAN (008)
Acting Head: M. Shkandrij

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL MAJOR Total: 30 hours of credit	008.1XX 008.090	008.2XX 008.120	(no changes)	
	008.1XY 008.091	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	
	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	(no changes)	
ADVANCED MAJOR Total: 30 hours of credit (Not Currently Offered)	008.1XX 008.090	008.2XX 008.120	(no changes)	(no changes)
	008.1XY 008.091	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	(no changes)
	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	(no changes)	(no changes)
MINOR Total: 18 hours of credit	008.1XX 008.090	008.2XX 008.120	(no changes)	
	008.1XY 008.091	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	
	008.2XX or 008.2XY ¹ 008.120 or 008.123[†]	(no changes)	(no changes)	

<i>HONOURS SINGLE (Not Currently Offered)</i>	008.2XX or 008.2XY ¹ 008.120 or 008.123 ²	(no changes)	(no changes)	(no changes)
<i>HONOURS DOUBLE (Not Currently Offered)</i>	008.2XX or 008.2XY ¹ 008.120 or 008.123 ²	(no changes)	(no changes)	(no changes)
<i>SPECIAL COURSES</i>	(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). 008.120 or 008.123.

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). 008.090, 008.091, 008.120 or 008.123.

(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). 008.090, 008.091, 008.120 or 008.123.

(no further changes)

Indicates material to be added

Indicates material to be deleted

Department of History**Courses to be deleted:**

011.292W	The History of France Since 1789 (E)	-3
011.324	Protestantism and the Development of the Canadian Community, 1749-1970 (C,S)	-6
011.334	History of Europe, 1789 to 1870 (E)	-6
011.341	The British Empire and Commonwealth Since 1815 (G)	-6
011.341	Histoire de l'empire et du commonwealth depuis 1815	-6
011.380	Eastern Europe Since the French Revolution (E)	-6
011.384	Peace and War in the Modern World (M,S)	-3
011.421	France in the Age of the Enlightenment and the French Revolution (E)	-6
011.449	The New Canada, 1867-96 (C)	-6

Courses to be modified:

011.126W **New Directions in History: Inquiries into the Cultural Basis
Of the Modern World (M) (3)**

The history of cultural change focusing on such topics as leisure and popular culture, sexuality and history, and the social consequences of creativity and genius. The specific content will vary from year to year.

011.127W **New Directions in History: Inquiries into the Power Relations
Of the Modern World (M) (3)**

The history of the social and cultural impact of factors such as changes in technology and communication, warfare, and revolution. The specific content will vary from year to year.

NET CHANGE IN CREDIT HOURS: -42

Department of Icelandic**Courses to be deleted:**

012.093	Modern Icelandic I	-6
012.123	Modern Icelandic II	-6

Courses to be introduced:

012.1XX **Modern Icelandic I** +6

Texts: Asta Svavarsdottir and Margrjet Jonsdottir, *Islenska fyrir Utflendinga* (Reykjavik 1991) and Ari Pall Kristinsson, *The Pronunciation of Modern Icelandic* (Reykjavik 1985). Other texts to be announced. *Students may not hold credit for both 012.1XX and the former 012.090 and 012.093.*

012.2XX **Modern Icelandic II** +6

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.*

NET CHANGE IN CREDIT HOURS: 0

8.15 ICELANDIC (012)
Acting Head: D. Arnason

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
MAJOR Total: 30 hours of credit	012.093 ¹ 012.1XX	012.123 012.2XX	(no changes)	
	012.123 012.2XX	(no changes)		
MINOR Total: 18 hours of credit	012.093 ¹ 012.1XX	012.123 012.2XX		
	012.122 or 012.123 012.2XX	(no changes)		
HONOURS SINGLE OR DOUBLE² (Not Currently Offered)	(no changes)			

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)

Indicates material to be deleted

Indicates material to be added

Interdisciplinary Course NumbersDELETIONSAsian Studies

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)
099.141W	Asian Civilizations (B)	(6)
099.142W	Asian Civilizations to 1500 (B)	(3)
099.143W	Asian Civilization from 1500 (B)	(3)
099.201	Advanced Chinese (Mandarin)	(6)
099.207W	South Asian Civilization	(6)
099.211W	East Asian Civilization	(6)
099.212	Advanced Japanese	(6)
099.214	Advanced Hindi-Urdu	(6)
099.234	Special Studies in Epic and Pauranic Sanskrit I	(3)
099.235	Special Studies in Epic and Pauranic Sanskrit II	(3)
099.236	Mandarin Comprehension	(6)
099.266	Modern Chinese Literature in Translation	(6)
099.348	Selected Topics in Asian Studies I	(3)
099.349	Selected Topics in Asian Studies II	(3)

ADDITIONSAsian Studies

1AA.091	Introduction to Chinese (Mandarin)	(6)
1AA.092	Introduction to Japanese	(6)
1AA.093	Basic Sanskrit	(6)
1AA.094	Basic Hindi-Urdu	(6)
1AA.101	Intermediate Chinese (Mandarin)	(6)
1AA.102	Intermediate Japanese	(6)
1AA.103	Intermediate Sanskrit	(6)
1AA.104	Intermediate Hindi-Urdu	(6)
1AA.141W	Asian Civilizations (B)	(6)
1AA.142W	Asian Civilizations to 1500 (B)	(3)
1AA.143W	Asian Civilization from 1500 (B)	(3)
1AA.201	Advanced Chinese (Mandarin)	(6)
1AA.207W	South Asian Civilization	(6)
1AA.211W	East Asian Civilization	(6)
1AA.212	Advanced Japanese	(6)
1AA.214	Advanced Hindi-Urdu	(6)
1AA.234	Special Studies in Epic and Pauranic Sanskrit I	(3)
1AA.235	Special Studies in Epic and Pauranic Sanskrit II	(3)
1AA.236	Mandarin Comprehension	(6)
1AA.266	Modern Chinese Literature in Translation	(6)
1AA.348	Selected Topics in Asian Studies I	(3)
1AA.349	Selected Topics in Asian Studies II	(3)

Film Studies

099.129	The Art of the Film I	(3)
099.130	The Art of the Film II	(3)
099.228	Film and Literature	(6)
099.230	The Popular Film	(3)
099.233	Film and Contemporary Thought	(3)
099.237	Experimental Cinema	(3)
099.238	The International Cinema I	(3)
099.239	The International Cinema II	(3)
099.240	The American Film to 1950	(3)
099.241	The American Film from 1950	(3)
099.242	Realism and Film	(3)
099.243	The Canadian Film	(3)
099.246	Film Genres	(3)
099.325	Special Topics in Film I	(3)
099.326	Special Topics in Film II	(3)
099.340	The Director's Cinema I	(3)
099.341	The Director's Cinema II	(3)
099.342	Film Theory	(3)
099.343	Screenwriting	(3)
099.344	Filmmaking	(3)
099.345	The Animated Film	(3)

Film Studies

1AB.129	The Art of the Film I	(3)
1AB.130	The Art of the Film II	(3)
1AB.228	Film and Literature	(6)
1AB.230	The Popular Film	(3)
1AB.233	Film and Contemporary Thought	(3)
1AB.237	Experimental Cinema	(3)
1AB.238	The International Cinema I	(3)
1AB.239	The International Cinema II	(3)
1AB.240	The American Film to 1950	(3)
1AB.241	The American Film from 1950	(3)
1AB.242	Realism and Film	(3)
1AB.243	The Canadian Film	(3)
1AB.246	Film Genres	(3)
1AB.325	Special Topics in Film I	(3)
1AB.326	Special Topics in Film II	(3)
1AB.340	The Director's Cinema I	(3)
1AB.341	The Director's Cinema II	(3)
1AB.342	Film Theory	(3)
1AB.343	Screenwriting	(3)
1AB.344	Filmmaking	(3)
1AB.345	The Animated Film	(3)

Labour and Workplace Studies

099.127	Introduction to the Political Economy of Labour	(3)
099.128	Introduction to Labour Institutions and Problems	(3)
099.244	Economic and Social Measurement	(3)
099.245	Labour and Technology	(3)
099.301	Labour Law	(3)
099.303	Labour and the Bargaining Process	(3)
099.306	Workplace Health and Safety	(3)
099.307	Labour Relations and Occupational Health and Safety Law	(3)
099.308	Workers' Self Management	(6)
099.311	Special Studies in Labour Studies	(3)
099.312	Special Studies in Labour Studies	(3)
099.313	Employment Legislation and the Protection of Workers	(3)
099.314	Pensions and Benefits	(3)
099.315	Labour Adjustment	(3)
099.451	Labour Studies Field Placement Seminar	(3)
099.452	Labour Studies Field Placement	(6)
099.481	Labour and Workplace Studies Work Experience Seminar	(3)
099.482	Labour and Workplace Studies Work Experience	(6)

Theatre

099.122	Introduction to Theatre	(6)
099.215	Theatrical Techniques: Onstage	(6)
099.216	Theatrical Techniques: Backstage	(6)
099.217	Specialized Practical Training I	(3)
099.218	Specialized Practical Training II	(3)
099.247	Fundamentals of Dramatic Analysis	(3)
099.248	Theatre History	(3)
099.249	Specialized Practical Training III	(3)
099.260	Special Studies I	(3)
099.261	Special Studies II	(3)
099.346	Theory of Drama and Performance	(3)
099.347	Text and Performance	(3)
099.361	Special Studies III	(3)
099.362	Special Studies IV	(3)
099.363	Practicum I	(3)
099.364	Practicum II	(6)

Labour and Workplace Studies

1AC.127	Introduction to the Political Economy of Labour	(3)
1AC.128	Introduction to Labour Institutions and Problems	(3)
1AC.244	Economic and Social Measurement	(3)
1AC.245	Labour and Technology	(3)
1AC.301	Labour Law	(3)
1AC.303	Labour and the Bargaining Process	(3)
1AC.306	Workplace Health and Safety	(3)
1AC.307	Labour Relations and Occupational Health and Safety Law	(3)
1AC.308	Workers' Self Management	(6)
1AC.311	Special Studies in Labour Studies	(3)
1AC.312	Special Studies in Labour Studies	(3)
1AC.313	Employment Legislation and the Protection of Workers	(3)
1AC.314	Pensions and Benefits	(3)
1AC.315	Labour Adjustment	(3)
1AC.451	Labour Studies Field Placement Seminar	(3)
1AC.452	Labour Studies Field Placement	(6)
1AC.481	Labour and Workplace Studies Work Experience Seminar	(3)
1AC.482	Labour and Workplace Studies Work Experience	(6)

Theatre

1AD.122	Introduction to Theatre	(6)
1AD.215	Theatrical Techniques: Onstage	(6)
1AD.216	Theatrical Techniques: Backstage	(6)
1AD.217	Specialized Practical Training I	(3)
1AD.218	Specialized Practical Training II	(3)
1AD.247	Fundamentals of Dramatic Analysis	(3)
1AD.248	Theatre History	(3)
1AD.249	Specialized Practical Training III	(3)
1AD.260	Special Studies I	(3)
1AD.261	Special Studies II	(3)
1AD.346	Theory of Drama and Performance	(3)
1AD.347	Text and Performance	(3)
1AD.361	Special Studies III	(3)
1AD.362	Special Studies IV	(3)
1AD.363	Practicum I	(3)
1AD.364	Practicum II	(6)

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)

Women's Studies

IAE.153	Introduction to Women's Studies in the Humanities	(3)
IAE.154	Introduction to Women's Studies in the Social Sciences	(3)
IAE.250	Race, Class and Sexuality	(3)
IAE.251	Women and Education	(3)
IAE.252	Introduction to Feminist Theory	(3)
IAE.253	Writing Women's Lives	(3)
IAE.254	Special Topics in Women's Studies	(3)
IAE.256	Women, Science and Technology	(3)
IAE.350	Selected Topics in Women's Studies	(3)
IAE.353	Readings in Women's Studies	(6)
IAE.354	Readings in Women's Studies	(3)
IAE.355	Feminist Community Organizing: Theories and Practices	(3)
IAE.356	Feminist Perspectives on Violence Against Women	(3)
IAE.357	Feminist Cultural Studies	(3)
IAE.358	Feminist Approaches to Research	(6)
IAE.359	Thinking Through the Body	(3)
IAE.360	Advanced Feminist Theory	(3)

Proposed Modifications to Latin American Studies (Minor)
1999-2000 General Calendar, Page 124

Indicates new material to be added

8.18 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.

Anthropology

076.2AA**	Prehispanic Cultures of Mexico	3
076.2BB**	Anthropological Perspectives on Contemporary Mexico	3
076.366	Latin American Culture History	3
076.368	Anthropological Perspectives on Current Issues in Latin America	3
076.369	Peoples and Cultures of Contemporary Latin America	6
Economics		
018.339	Development Economics	6
Geography		
053.235	Latin America	6
History		
011.214	Colonial Latin America	3
011.215	Independent Latin America	3
011.302	South America Since 1945	3
011.304	Mexico, Central America, and Cuba Since 1945	3
011.487	Contemporary Latin America	6
Spanish		
044.220	Spanish American Culture and Civilization	3
044.253	Spanish-American Literature I	3

044.254	Spanish-American Literature II	3
044.323	Spanish-American Fiction Since 1950	3
044.325	Realism in Spanish-American Fiction	3
044.326	Twentieth-Century Theatre and Poetry in Spanish America	3
044.369	Nineteenth-Century Theatre and Poetry in Spanish America	3
044.370*	The Novel of the Land and the Realistic Short Story in Spanish America	3
044.373*	The Spanish-American Essay and Twentieth-Century Poetry and Drama	3
044.374*	The New Spanish-American Novel and the Contemporary Short Story	3

*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. Chodkiewicz, Department of Anthropology.

Department of Linguistics

Courses to be introduced:

126.1XX Language and Gender +3

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

126.1XY Rules of English Grammar +3

What are the criteria that are used to distinguish "good" from "bad" grammar? What are the rules we need to know in order to speak and write "properly"? In 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:

055.1XX Biblical Hebrew (A) +6

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 055.1XX 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

This 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.*

Department of Religion

Course to be deleted:

020.092 Biblical Hebrew (A) -6

Course to be introduced:

020.1XX	Biblical Hebrew (A)	+6
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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 055.1XX or the former 020.092 and 055.092.*

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
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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
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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

+3

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

077.3XX Origins of Sociological Thought

+3

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

077.3XX Origines de la pensée sociologique

+3

Une introduction systématique à la pensée sociologique, de ses origines philosophiques jusqu'au milieu du 19th 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

+3

A critical examination of how gender has been addressed in classical and contemporary sociological theories, with consideration of how sociological inquiry is being transformed through feminist theory and practice.

077.3XZ Theories in Social Psychology

+3

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

+3

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

+3

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

+3

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

+3

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 077.3ZX et un des anciens 077.254 ou 077.244.*

077.4XY Advanced Sociological Theory

+3

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 macrosociologie (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)

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

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 conjugale. Le cours insistera particulièrement sur les rapport conjugaux observables dans les sociétés développées contemporaines, sous l'angle du partage des tâches ménagères et des rapports de pouvoir au sein du couple.

077.364 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.*

077.373 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 impacte 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 (genre, ethnie, niveau de revenu et profession des parents, etc.). Le cours intéresse 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

8.27 SOCIOLOGY (077)
Head: R. Kuennenman

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL	(no change)	077.229, any two of 077.2XX, 077.250, 077.3XX, 077.367, 077.3XY, 077.368 and 12 additional hours of credit in Sociology (200 or 300 level)		
MAJOR				
SOCIOLOGY				
Total: 30 hours of credit				
GENERAL	(no change)	(no change)	12 hours of credit from the following: 077.370, 077.371, 077.372, 077.374, 077.376, 077.378, 077.379, 077.380, 077.383, 077.452	
MAJOR				
CRIMINOLOGY				
Total: 30 hours of credit				
ADVANCED	(no change)	077.229, 077.233; any one of 077.239, 077.3ZX, 077.254, 077.337, 077.347, 077.381; any two of 077.2XX, 077.3XY, 077.3YY, 077.250, 077.367, 077.368; plus an additional 6 hours of credit in Sociology (200 or 300 level)		(no change)
MAJOR				
SOCIOLOGY				
Total: 40 hours of credit				
MINOR	(no change)	(no change)		
Total: 18 hours of credit				

HONOURS* (no change)

077.229, 077.2XX,
077.2XY 077.250; 6
additional hours of credit
in Sociology; 12 +5 hours
of credit in ancillary
options

9 hours of credit from
the following: 077.347,
077.3XX, 077.3XY,
077.3XY, 077.3XZ plus
9 077.367, 077.368, +12
additional hours of
credit at the 200 or 300
level; in Sociology; 12
hours of credit in
ancillary options

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

[†]The Honours Program is not currently available.

[‡]Students enrolled in the fourth year of the Honours Program are permitted to substitute the graduate course 077.742 for 077.448.

8.27.1 Program Information

Major Program

(no changes)

6
8

Minor Program

(no changes)

Honours Program

For entry to the Honours Program, see Section 4: *Basic Faculty Regulations for the Three Programs Leading to a B.A.* The Honours program is not currently available.

(no further changes)

Indicates material to be added

Indicates material to be deleted

Department of Français (St. Boniface College)

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 : 13 122.211 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:

063.131	Teaching Language Arts	-6
063.151	Topics in Music Education	-3
063.159	Topics in Art Education	-3
063.160	Topics in Drama Education	-3
063.161	Topics in Social Studies Education	-3

Courses to be introduced:

132.1XX Teaching the Arts in Senior Years +3
 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.

132.1XD Teaching Social Studies in Senior Years +3
 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.

132.1XB Art Across the Curriculum +3
 This course will emphasize the importance of visual learning and its potential for teaching in the various curriculum areas at all levels. Opportunities for studio work, discussion and planning will be provided.

132.1XC Drama Across the Curriculum +3
 For all students, specialist and non-specialist, who wish to develop a greater understanding and practice of drama in the classroom across the curriculum.

132.1XF Teaching English Language Arts in Senior Years I +3
 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**

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
063.105	132.100	Early Years Philosophy and Practice I (1)	An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.100 and the former 063.105.</i>
063.106	132.101	Early Years Curriculum and Instruction in Language and Literacy I (3)	An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.101 and the former 063.106.</i>
063.107	132.102	Early Years Curriculum and Instruction in Music and Movement I (1)	An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.102 and the former 063.107.</i>
063.108	132.103	Early Years Curriculum and Instruction in Art and Drama I (2)	An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.103 and the former 063.108.</i>
063.109	132.104	Early Years Curriculum and Instruction in Social Studies I (1)	An introductory, interdisciplinary study of curriculum and instruction in early years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.104 and the former 063.109.</i>
063.120	132.110	Introduction to Teaching Language Arts in the Middle Years (3)	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. <i>Students may not hold credit for both 132.110 and the former 063.120.</i>
063.121	132.111	Introduction to Teaching Social Studies in the Middle Years (1)	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. <i>Students may not hold credit for both 132.111 and the former 063.121.</i>
063.122	132.112	Teaching Drama in the Middle Years (1)	An overview of the teaching strategies appropriate to teaching drama in the Middle Years. <i>Students may not hold credit for both 132.112 and the former 063.122.</i>
063.130	132.220	Teaching Art in Senior Years (3)	A study of curriculum and instruction approaches relevant to teaching the visual arts at the senior years level. <i>Prerequisite: 132.120.</i>
063.132	132.222	Teaching Geography in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of geography at the senior years level. <i>Prerequisite: 132.123.</i>

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<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
063.158	132.167	English for the NNS (Non-Native Speaking) Teachers of ESL (3)	English language development for non-native speaking teachers of English as a second language. Focus is on teacher classroom and professional English.
063.162	132.168	Media Literacy (3)	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. <i>Students may not hold credit for both 132.168 and the former 063.162.</i>
063.163	132.169	Recent Developments in Curriculum: Humanities and Social Sciences (3)	The study of selected topics in curriculum and instruction in the humanities and social sciences.
063.164	132.170	Teaching Canadian Studies (3)	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. <i>Students may not hold credit for 132.170 and the former 063.214.</i>
063.190	132.196	Early Years School Experience I (6)	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. <i>Students may not hold credit for both 132.196 and the former 063.190.</i>
063.191	132.197	Middle Years School Experience I (3)	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. <i>Students may not hold credit for both 132.197 and the former 063.191.</i>
063.192	132.198	Senior Years School Experience I (6)	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.
063.221	132.201	Early Years Curriculum and Instruction in Language and Literacy (3)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.222	132.202	Early Years Curriculum and Instruction in Music and Movement II (2)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.223	132.203	Early Years Curriculum and Instruction in Art and Drama II (1)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.224	132.204	Early Years Curriculum and Instruction in Social Studies II (2)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
081.105	132.105	Early Years Curriculum and Instruction in Mathematics I (2)	An introductory, interdisciplinary study of curriculum and instruction in Early Years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.105 and the former 081.105.</i>
081.106	132.106	Early Years Curriculum and Instruction in Science and Health I (2)	An introductory, interdisciplinary study of curriculum and instruction in Early Years education (Kindergarten to Grade 4). <i>Students may not hold credit for both 132.106 and the former 081.106.</i>
081.120	132.113	Introduction to Teaching Science in the Middle Years (1)	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. <i>Students may not hold credit for both 132.113 and the former 081.120.</i>
081.121	132.114	Introduction to Teaching Mathematics in the Middle Years (3)	An overview of Middle Years mathematics curricula. <i>Students may not hold credit for both 132.114 and the former 081.121.</i>
081.130	132.226	Teaching Biology in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of biology at the senior years level. <i>Prerequisite: 132.127.</i>
081.131	132.227	Teaching Chemistry in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of chemistry at the senior years level. <i>Prerequisite: 132.127.</i>
081.132	132.228	Teaching General Science in Senior Years (3)	The study of curriculum and instructional approaches relevant to the teaching of General Science at the senior years level. <i>Prerequisite: 132.127.</i>
081.133	132.124	Teaching Human Ecology in Senior Years I (3)	The study of curriculum and instructional approaches relevant to the teaching of Human Ecology at the senior years level.
081.134	132.229	Teaching Human Ecology in Senior Years II (3)	A continuation of the study of curriculum and instructional approaches relevant to the teaching of Human Ecology at the senior years level. <i>Prerequisite: 132.124.</i>
081.135	132.125	Teaching Mathematics in Senior Years I (3)	A study of curriculum and instructional approaches relevant to teaching Mathematics at the senior years level.
081.136	132.230	Teaching Mathematics in Senior Years II (3)	A continuation of the study of curriculum and instructional approaches relevant to teaching Mathematics at the senior years level. <i>Prerequisite: 132.125.</i>
081.137	132.126	Teaching Physical Education/Health Education in Senior Years I (3)	A study of curriculum and instructional approaches relevant to the teaching of physical education and health education at the senior years level.
081.138	132.231	Teaching Physical Education/Health Education in Senior Years II (3)	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. <i>Prerequisite: 132.126.</i>

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
081.156	132.181	Computer-Based Multimedia in Education (3)	An examination of computers in education focusing on the utilization and creation of educational computer-based multimedia. <i>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.</i>
081.182	132.199	Teacher and Technology (3)	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. <i>Students may not hold credit for 132.199 and the former 081.182 or 081.218 or 081.202.</i>
081.220	132.205	Early Years Curriculum and Instruction in Mathematics II (2)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
081.221	132.206	Early Years Curriculum and Instruction in Science and Health II (2)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
081.230	132.213	Teaching Science in the Middle Years (3)	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.
081.231	132.214	Teaching Mathematics in the Middle Years (3)	A study of instructional approaches needed to teach mathematics at the Middle Years level.
081.232	132.215	Teaching Physical Education in the Middle Years (2)	This course introduces students to the rationale for, and methods of, teaching of health and physical education in the Middle Years grades.
081.240	132.240	Teaching in the Middle Years (2)	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.

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 fulfil 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: 004.131 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** +8Self-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:** +58. **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: 09. **Faculty of Nursing**

Course to be introduced:

049.2XX **Pharmacology in Nursing Practice** +3This 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:

0

11. Faculty of Physical Education and Recreation StudiesPhysical 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."

Computer Science - Mathematics Joint Honours Programme

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.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT HONOURS 123 CREDIT HOURS	074.101 and 074.102 (B) 136.130'(B), 136.169 (B), (or 136.150' and 136.170 '(B)) 005.100 (C) Plus 6 credit hours from the Faculty of Arts, which should include the "W" course	074.206, 074.208', 074.222, 074.223, 136.2LA, 136.2HF, 136.2SR plus one of 136.2JA or 136.2GA In the above chart, University I and Year II are part of a revised program; please see note 5.	074.303, 074.317, 074.337, 074.343, 074.430, 074.431 (or 074.442), 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. ⁴ 013.340, 013.345, 013.338, 013.372 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 ⁴ In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.	
	A "W" course must be taken in Year I or II ⁵			
	30 Hours	33 Hours	30 Hours	30 Hours
PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT COOPERATIVE OPTION HONOURS 123 CREDIT HOURS	074.101 and 074.102 (B) 136.130'(B), 136.169 (B), (or 136.150' and 136.170 '(B)) 005.100 (C) Plus 6 credit hours from the Faculty of Arts, which should include the "W" course University I and Year II are part of a revised program; please see note 5.	074.206, 074.208', 074.222, 074.223, 074.298', 136.2LA, 136.2HF, 136.2SR plus one of 136.2JA or 136.2GA	074.303, 074.317, 074.337, 074.343, 074.398*, 074.430, 074.431 (or 074.442), 074.498*, 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. ⁴ 013.340, 013.345, 013.338, 013.372 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 ⁴ In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.	
	A "W" course must be taken in Year I or II ⁵			
	30 Hours	33 Hours	30 Hours	30 Hours

¹136.131 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.

²The 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 of this Calendar*.

³Students in this program will not take 074.213 or 074.313. 074.213 is waived as a prerequisite for students in this program.

⁴Students who plan a Master's degree in Computer Science or Mathematics should take suitable 400 level courses in the appropriate department.

⁵Important 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.

⁶The work terms 074.298, 074.398 and 074.498 will be completed in the summers following Year II, Year III and Year IV, respectively.

The Changes are:

- 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.
- The entry grade for 136.130 has been increased to a 'B'.
- Footnote 5 and the sentences in the chart have been added to explain the transition.

Proposed Program:

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GEOLOGICAL SCIENCES (007)

Head: N.M. Halden

General Office: 240 Wallace Building Telephone: (204) 474-9371

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS GEOLOGY (007G) 129 CREDIT HOURS	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)) Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 18 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'	007.206, 007.244, 007.250, 007.252, 007.253, 007.260, 007.277, 007.331 Plus 6 credit hours of electives Plus 007.485' which must be taken in Year II, III and IV	007.311, 007.313, 007.390, 007.430, 007.449', 007.452, 007.467, 007.487, 007.489 Plus 24 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, 007.463, 007.466, 007.481, 007.483, 007.427	
	30 Hours	30 Hours	36 Hours'	33 Hours
HONOURS GEOPHYSICS (007P) 126 CREDIT HOURS	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)) 016.105 (B) or 016.102 (B+), 016.107 (B), 136.151 (B) and 136.171 (B) (or 136.150 (B) and 136.170 (B))' 074.101 which must be taken by the end of Year III Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 6 credit hours of electives (which could include 074.101) A "W" course must be taken in University I or Year II'	007.206, 007.250, 007.253, 016.237, 016.240, 136.2BA'', 136.2BB'' Plus 6 credit hours of electives	007.244, 007.252, 007.374, 007.381, 007.474', 006.343', 006.360'', 016.250, 016.260, 016.261	007.313, 007.425, 007.432, 007.433, 007.467, 007.481, 0073.483, 007.487 Plus 3 credit hours of electives as approved by the Department
	30 Hours	32 Hours	34 Hours'	30 Hours
FOUR YEAR MAJOR IN GEOLOGY' (007G) 120 CREDIT HOURS	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+)) 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'	007.244, 007.250, 007.252, 007.253, 007.260 Plus 18 credit hours of Science electives	007.206, 007.277, 007.311, 007.331, 007.390, 007.430 or 007.452, 007.467, 007.489 Plus 9 credit hours of Geological Sciences electives	
FOUR YEAR MAJOR IN GEOPHYSICS' (007P) 120 CREDIT HOURS	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+)), 016.105 (C+) or 016.102 (B), 016.107 (C), 136.151 (C+) and 136.171 (C) (or 136.150 (C+) and 136.170 (C))' 074.101 which must be taken by the end of Year III Plus 6 credit hours from the Faculty of Arts, which may include the "W" course A "W" course must be taken in University I or Year II'	007.206, 007.250, 007.253, 016.237, 136.2BA'', 136.2BB''	007.244, 007.252, 007.374, 007.381, 006.343', 006.360'', 016.260, 016.261	007.313, 007.481 Plus 9 credit hours from: 007.425, 007.426, 007.432, 007.433, 007.474, 007.483

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 transformation 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

Suite du cours 136.130 (136.131 ou l'ancien 013.146). Espaces vectoriels à dimensions finies; transformations linéaires et matrices; vecteurs propres réels et valeurs propres réelles; la diagonalisation et ses applications; espaces avec produits scalaires. *L'étudiant(e) ne peut se faire créditer ce cours avec le 136.2LA ou avec les anciens 013.235, 013.245 ou 013.246. Préalables : 136.130 ou 136.131 (ou l'ancien 013.146), et 136.150, 136.151, 136.152, 136.153 ou 136.169 (ou les anciens 013.139, 013.159, ou 006.125).*

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'énumération, les graphes, les dessins de blocs et les généralisations, les récursions linéaires. *L'étudiant ne peut se faire créditer le 136.2EF 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 IIIB**+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 Calcul IIIB**+3**

Analyse, suites et séries. *L'étudiant ne peut recevoir de crédits pour plus d'un des cours suivants : 136.2HB, 136.2HF ou les anciens 006.237, 006.238, 006.244, 013.249 ou 013.234. Préalable : un de 136.169, 136.170, 136.171 ou le 136.173 (ou les anciens 013.149, 013.159, ou 006.126). Corequis : 136.130 ou 136.131 (ou l'ancien 013.146).*

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 136.2HA, 136.2HB or the former 013.239, 013.249, 013.234, 006.227, 006.237, 006.228, 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**

Une introduction à la théorie des équations différentielles; techniques pratiques de solution, principalement en ce qui tient aux équations du premier ordre et aux équations linéaires d'ordre plus élevé; les systèmes linéaires. Applications à des problèmes en sciences ou à d'autres domaines. *L'étudiant ou l'étudiante ne peut se faire créditer à la fois le 136.2JA et les anciens 006.202, 006.226 ou 006.235. Préalables: 136.130 ou 136.131 (ou l'ancien 013.146). Corequis : 136.2HA (ou l'ancien 013.239) ou 136.2HF (ou l'ancien 013.234).*

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 où interviennent 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 013.332. Pre-requisites: 136.2HF (or the former 013.234), 136.2LA (or the former 013.235) and 136.2SR (or the former 013.237) 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'élémentaire. L'on étudiera les systèmes des nombres, la géométrie et l'analyse combinatoire élémentaire. *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'élémentaire. *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

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
APPLIED MATHEMATICS HONOURS 120 CREDIT HOURS	136.130'(B), 136.169(B) (or 136.150' and 136.170' (B)), 005.100', 074.101' Plus 6 credit hours from the Faculty of Arts, which should include the "W" course	136.2SR, 136.2LA, 136.2GA, 136.2HF, 136.2JA In the above chart, University I and Year II are part of a revised program; please see note 8. Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA (the former 006.235)', 005.200 and 27 credit hours from the list below, at least 15 credit hours of which must be Applied Mathematics courses (006) at the 300 or 400 level	006.329, 006.325, 006.337, 006.347, 013.340 Both of the courses (unless already taken) 136.2EA and 136.2GA In the above chart, Years III and IV are part of an old program which is being revised: please see note 8.	006.320, 006.336
	A "W" course must be taken in Year I or II*			
	30 Hours	30 Hours	30 Hours	30 Hours
MATHEMATICS HONOURS 120 CREDIT HOURS	136.130' (B), 136.169 (B) (or 136.150' and 136.170' (B)), 005.100', 074.101' Plus 6 credit hours from the Faculty of Arts, which should include the "W" course	136.2SR, 136.2LA, 136.2GA, 136.2HF, 136.2JA In the above chart, University I and Year II are part of a revised program; please see note 8.	013.338, 013.340, 013.345, 013.371, 013.372, and at least 3 credit hours from 013.347, 013.349, 013.373', 013.374, 013.375, 013.376	Two* of 013.448, 013.452, 013.462 Plus an additional 12 credit hours from among the above and 013.347, 013.349, 013.373', 013.374, 013.375, 013.376, 013.455, 013.456, 013.457, 013.460, 013.463, 013.465, 013.468, 013.469 In the above chart, Years III and IV are part of an old program which is being revised: please see note 8.
	A "W" course must be taken in Year I or II*			
	30 Hours	30 Hours	30 Hours	30 Hours
APPLIED MATHEMATICS HONOURS DOUBLE MINIMUM 120 CREDIT HOURS	Arranged in consultation with departments concerned			
JOINT APPLIED MATHEMATICS- STATISTICS HONOURS	See Section 4.13 Statistics			
MATHEMATICS HONOURS DOUBLE MINIMUM 120 CREDIT HOURS	136.130'(B), 136.169(B) (or 136.150' and 136.170' (B)), 005.100', 074.101' Plus 6 credit hours from the Faculty of Arts, which should include the "W" course	136.2SR, 136.2LA, 136.2GA, 136.2HF, 136.2JA In the above chart, University I and Year II are part of a revised program; please see note 8.	013.338, 013.340, 013.345, 013.372	013.373, two of 013.448, 013.452, 013.462, 013.463 Plus at least an additional 3 credit hours from among the above and 013.347, 013.349, 013.371, 013.374, 013.375, 013.376, 013.455, 013.456, 013.457, 013.460, 013.465, 013.468, 013.469 In the above chart, Years III and IV are part of an old program which is being revised: please see note 8.
	A "W" course must be taken in Year I or II*			
MATHEMATICS JOINT HONOURS COMPUTER SCIENCE- MATHEMATICS	See Section 4.5 Computer Science			

**MATHEMATICS
THREE YEAR
GENERAL**

A minimum of 12 credit hours from 200 and (or) 300 level
Mathematics (006, 013 and/or 136 numbered) courses

MATHEMATICS

MINOR

(For students in
other faculties)

136.130¹, 136.150¹ and 136.170¹ (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.

MATHEMATICS PROGRAM INFORMATION

¹136.151, 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.

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

³016.360 may be substituted for 016.105

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

⁵Students considering graduate work in pure mathematics should note that many graduate schools will require a student to rectify any deficiencies in 013.448, 013.452, 013.462 and 013.463.

⁶The 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*.

⁷The former 006.245 satisfies this requirement; 006.245 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 and IV should be available in September 2000; please contact the Department of Mathematics for information. The above listed program requirements for Years III and IV pertain only to students who are registered in Years III or IV in 2000/2001.

⁹**IMPORTANT NOTE:** The Four Year Major programs need not be completed in the manner prescribed in the charts above. Each chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their programs with a view to satisfying the prerequisites of the required courses. However, as pointed out in note 7, these programs are currently being revised. Please refer to the text below for the minimum requirements for entry to a Four Year Major.

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

MATHEMATICS PROGRAM INFORMATION

Prerequisite Information

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 136.130⁴ (B), 136.169 (B) or 136.151⁴ and 136.171⁴ (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

Applied Mathematics: 006.328, 006.332, 006.334, 006.442, 006.444, 006.445, 006.446, 006.447, 006.448, 006.449.

Mathematics: 013.345, 013.374, 013.452, 013.464

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, 074.453.

Physics: 016.237, 016.240, 016.250, 016.260, 016.261, 016.265, 016.360, 016.361, 016.365, 016.366, 016.369, 016.370, 016.437, 016.462.

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 136.130⁴, 136.151⁴, or 136.171⁴, one of which must be either 136.151⁴, or 136.171⁴, 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 136.151⁴, and 136.130⁴

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 mathematician. 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 136.130⁴, 136.151⁴, or 136.171⁴, one of which must be either 136.151⁴, or 136.171⁴, 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 136.130⁴ and 136.150⁴.

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.

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. Footnote 7 has been added to explain the transition in courses.

Mathematics - Physics and Astronomy Joint Programme**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.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT HONOURS 138 CREDIT HOURS	136.130 ¹ (B), 136.151 ¹ and 136.171 ¹ (B),(or 136.169 (B)), 016.105 (B) (or 016.102 (B+)) ² and 016.107 (B), 005.100, 074.101 Plus 6 credit hours from the Faculty of Arts, which should include the "W" course A "W" course or an "M" course must be taken in Year I or II ⁴	016.226, 016.240, 016.250, 016.260 ³ , 016.261, 016.265, 136.2HF, 136.2LA, 136.2SR, 136.2JA In the above chart, University I and Year II are part of a revised program; please see note 5.	013.338, 013.340, 013.345, 013.372, 016.365, 016.370, 016.341, 016.369 In the above chart, Years III and IV are part of an old program which is being revised; please see note 5.	013.371, 013.373, 013.452, and another 6 credit hours of 400 level Mathematics courses, 016.343, 016.366, 016.437 Plus 3 credit hours from 300 and 400 level Physics Honours courses
	30 Hours	36 Hours	36 Hours	36 Hours

¹136.131 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.

²016.103 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.

³The corequisite of 016.237 is waived. It is recommended that students audit 016.237 in second year.

⁴The 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*.

⁵Important 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.

(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 I.
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. Student 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 précalcul 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 précalcul 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 précalcul 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 013.234 (or 013.239 and 013.249).*

NET CHANGE IN CREDIT HOURS:

-6

Service courses to be deleted:

016.118	Introductory Dynamics (L)	-3
016.229	Introductory Modern Physics IIC	-3
016.353	Modern Physics IIIA (L)	-3
016.355	Nuclear Physics IIIM	-3

Proposed Program:

PHYSICS AND ASTRONOMY (016)

Head: G. Williams

General Office: 301 Allen Building Telephone: (204) 474-9817

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS 120 CREDIT HOURS	016.105 (B) (or 016.102 ¹ (B+)) and 016.107 (or the former 016.106) (B), 136.130 ¹ (B), 136.150 ¹ (B), 136.170 ¹ (B) Plus 6 credit hours from the Faculty of Arts, which should include the "W" course	016.226, 016.237, 016.240, 016.250, 016.260, 016.261 ¹ , 016.265, 136.2HF (or both of 136.2HA and 136.2HB)	016.341, 016.343, 016.365, 016.369, 016.370, 136.2DA Plus 3 credit hours of electives with one of the following strongly recommended: 016.357, 016.366	016.437, 016.451, 016.452 ¹ , 016.467, 006.325 Plus 9 credit hours from 016.357, 016.366, 016.425, 016.454, 016.456, 016.458, 016.462, 016.463, or 013.464
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				
	30 Hours	30 Hours	30 Hours	30 Hours
JOINT MATHEMATICS- PHYSICS AND ASTRONOMY HONOURS	See Section 4.10 Mathematics			
FOUR YEAR MAJOR ¹ 120 CREDIT HOURS	016.105 (C+) (or 016.102 ² (B)) and 016.107 (or the former 016.106) (C+), 136.150 ^{1,2} and 136.170 ^{1,3} Plus 6 credit hours from the Faculty of Arts, which may include the "W" course	016.237, 016.240, 016.250, 016.260, 136.120, 136.130 ¹	016.226, 016.261, 016.265, 016.370, 136.2HF, (or both of 136.2HA and 136.2HB) Plus 12 credit hours from 300 and 400 level Honours Physics and Astronomy courses	016.343, 016.365, 016.454, 006.325, 136.2DA
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 ⁴				
THREE YEAR GENERAL	A minimum of 12 credit hours from 016.220, 016.225, 016.226, 016.227, 016.228, 016.235, 016.280, 016.336, 016.380			
MINOR (For students in other faculties)	016.105 (C) and 016.107 (C) (or 016.102 (C+) and 016.103 (C+))	A minimum of 12 credit hours from 016.220, 016.225, 016.226, 016.227, 016.228, 016.235, 016.280, 016.336, 016.380		

¹Students 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.

²016.103 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.

³136.131 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; 136.169 may be taken in place of 136.150 and 136.170.

⁴Other Honours Physics and Astronomy or Honours Mathematics courses may be substituted for one of 016.437, 016.451 or 016.452 with permission of the Department.

⁵A minimum grade of "C" and an average of "C+" is required on these two Mathematics courses.

⁶The 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*.

⁷The 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*.

⁸IMPORTANT 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.

⁹Engineering 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

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 better in 005.200 and either: an average 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): 074.126, 074.127, 074.101 and 074.102, 074.206, 074.208, 074.213, 074.310 or 074.348, 074.338, 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.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT HONORS 120 CREDIT HOURS	005.100, 136.130 ¹ (B), 136.169(B),(or 136.150 ¹ and 136.170 ¹ (B)), 074.101 ¹ Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 9 credit hours	005.200 ⁴ 136.2HF, 136.2LA, 136.2SR, 136.2JA, 136.2GA Plus 6 approved credit hours In the above chart, University I and Year II are part of a revised program; please read note 7.	005.305, 005.347, 05.348 (or 005.312 and 005.313 ¹) 005.350 and 005.360, 013.338, 013.340, 013.372, Plus 3 approved credit hours In the above chart, Years III and IV are part of an old program which is being revised; please see note 7.	005.414 ¹ , 005.452, 005.453 ¹ , 013.345 ¹ , 013.373 ¹ , 013.452, Plus 6 approved credit hours
	A "W" course must be taken in Year I or II ⁴ 30 Hours	30 Hours	30 Hours	30 Hours

¹136.131 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.

²May be taken in Year II.

³May be taken in Year III.

⁴005.200 may be taken in Year I.

⁵005.312 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.

⁶The 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*.

⁷Important 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.

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

The Changes are:

- 013.234, 013.235 and 013.237 have been deleted and replaced by 136.2HF, 136.2LA, 136.2GA, 136.2SR and 136.2JA in Year II, and the number of credit hours of electives have been reduced from 9 to 6.
- 074.101 has been added to University 1 or Year II (as outlined in Footnote 2) and the credit hours of electives have been reduced to 9.
- 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).
- 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

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS SINGLE 120 CREDIT HOURS	071.125, 002.130, 002.131 Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 005.100 and 005.200 which must be taken in Year I or II In addition, 136.150 ¹ must be taken in Year I, II or III A "W" course and an "M" course must be taken in Year I or II ¹	022.215, 022.228, 022.232, 022.237 (001.237 or 065.237) ² , 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) ¹	022.353 and 022.354 ⁴ , 022.375, 001.246 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	022.400 and 022.411, <

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



**UNIVERSITY OF MANITOBA
EQUITY SERVICES OFFICE**

ANNUAL REPORT: 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:

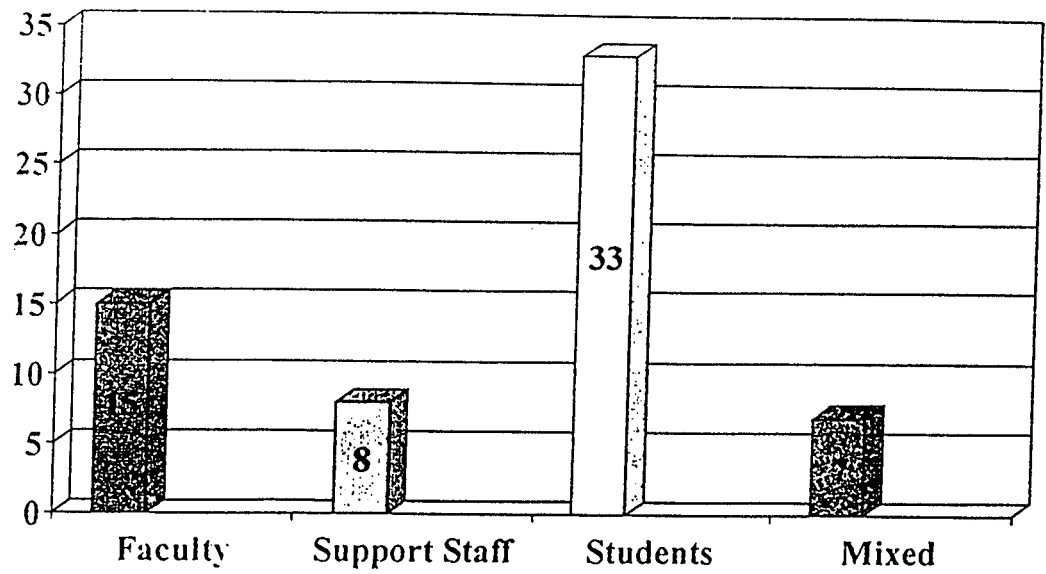
The audience that has been the most difficult to access is support staff and administrative units.

RECOMMENDED ACTION:

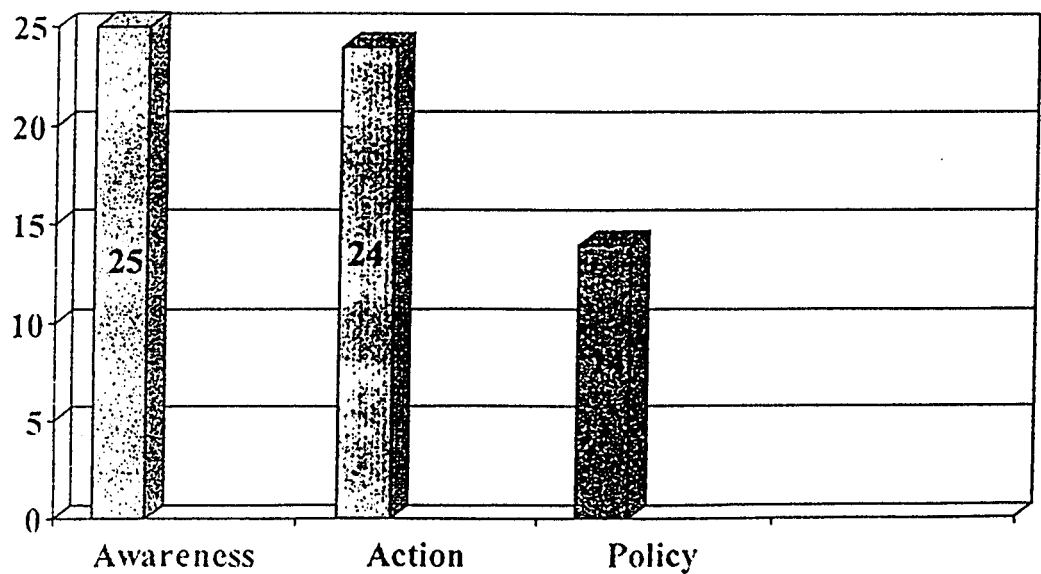
In addition to providing annual workshops to New Faculty, Teaching Assistants, University One and requested workshops for faculty and students, it is recommended that the Equity Services Office will develop a three year rotational plan for all Administrative /Support Staff Units. The purpose would be 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.

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No. of Educational Sessions



Level of presentation



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

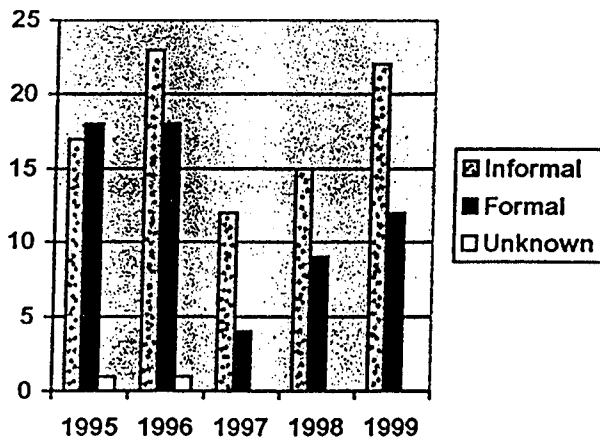
A male student wished to file a formal complaint against a professor on the basis that he felt he had been discriminated against because of his colour. Although he described the professor's behaviour as "demeaning, prejudiced and slanderous," in the complaint itself no correlation could be found between 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.

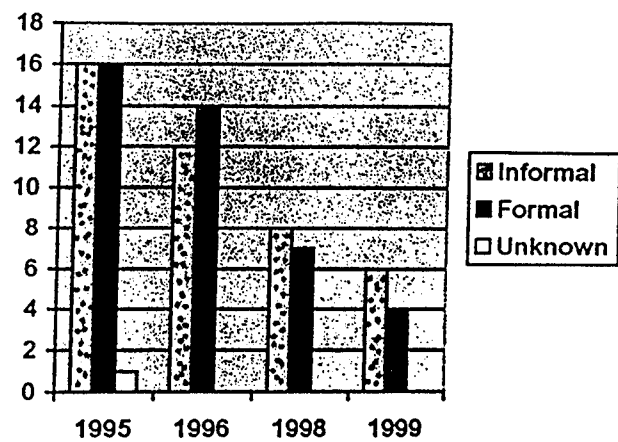
Jannine LeMere
Investigation Officer

SEXUAL HARASSMENT FORMAL/INFORMAL COMPLAINTS



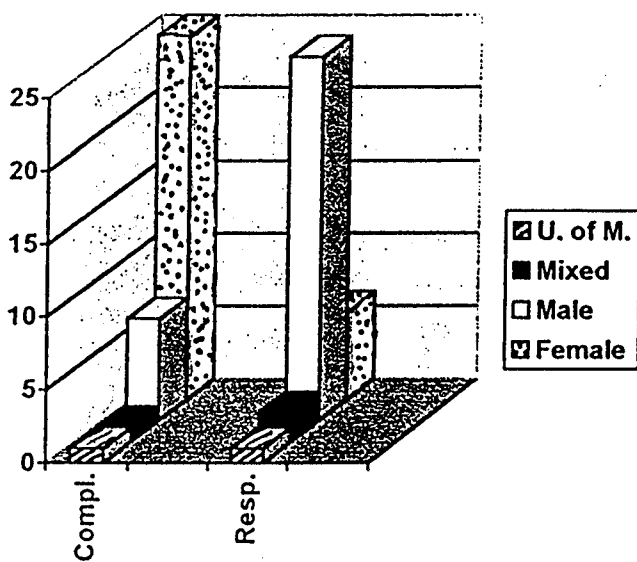
1996 covers a 21-month
period due to adjustment
in year end

HUMAN RIGHTS FORMAL/INFORMAL COMPLAINTS



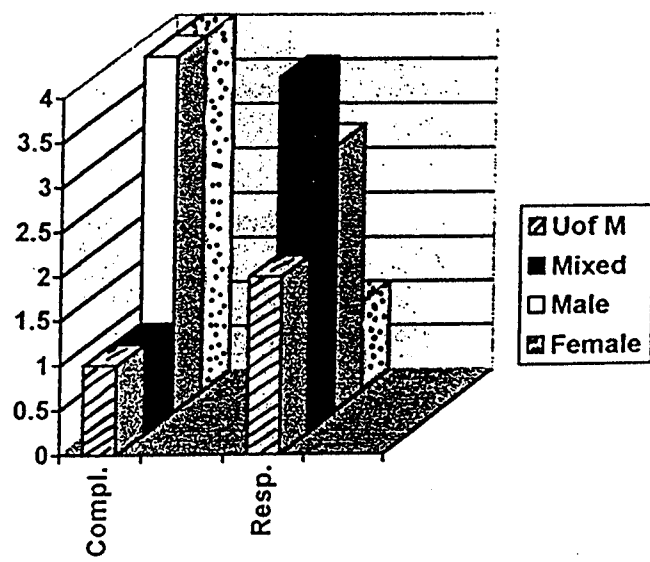
1998 covers a 15-month
period due to adjustment
in year end

SEXUAL HARASSMENT GENDER OF COMPLAINANTS AND RESPONDENTS



Complainants
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



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

3117

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.

3118

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.

3119, 3120

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.

Human Rights**046**

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.

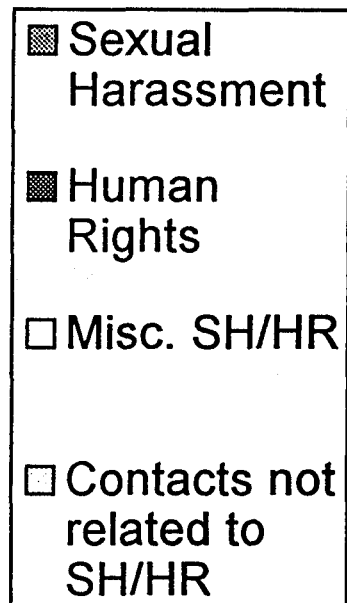
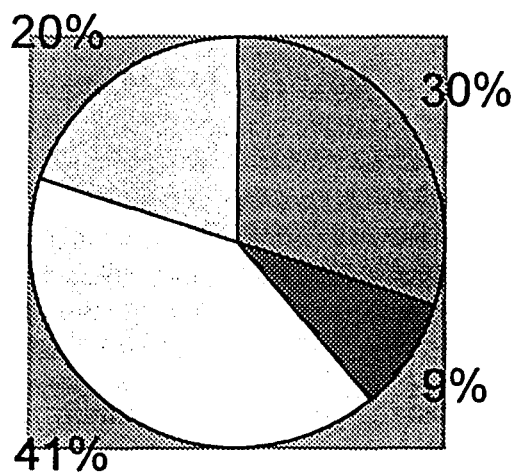
054

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

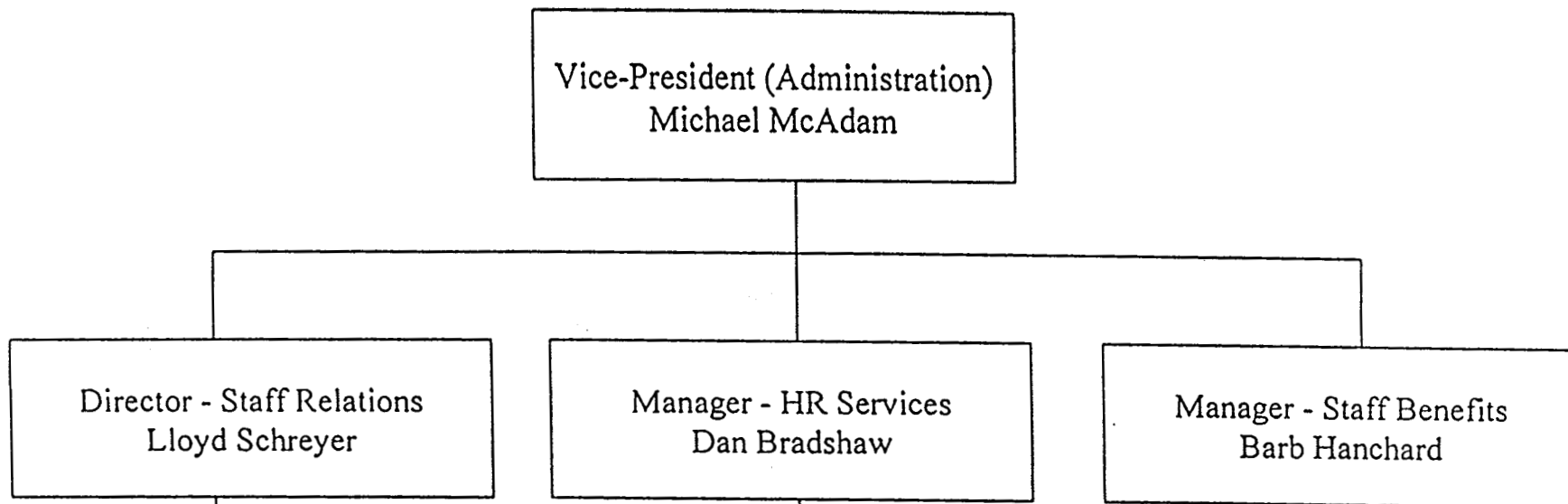
HOW TO REQUEST DIVERSITY EDUCATION:

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.



Functional Responsibilities

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

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

- Staff Benefits
- Pensions

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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THE UNIVERSITY OF MANITOBA

149
HUMAN RESOURCES

309 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2

Fax: (204) 474-7505

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



¹136.151, 136.152, 136.153 or 136.169 may be taken in place of 136.150.

²022.237 (001.237/065.237) has 005.100 as a corequisite.

³If 002.221, 002.236 (060.236) and 002.237 (060.237) are elected, 002.236 (060.236) and 002.237 (060.237) may be taken in either Year II or Year III.

⁴For students who have completed 022.253 and 022.254 before entering the Honours or Four Year Major Program, the 022.353 and 022.354 requirement will be waived if they received a minimum grade of "B" in 022.254 and completed and passed the laboratory component of 022.353 and 022.354, however, if possible, completion of 022.354 is advised.

⁵The University written English and mathematics requirement must be successfully completed within the first 60 credit hours of this program. Completion of three credit hours from 005.100 and 136.150¹ in Year I or II will satisfy the University mathematics requirement. See *Student Services, General Academic Regulations and Policy, Section 4.1, University Written English and Mathematics requirement.*

⁶IMPORTANT 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.

The Changes are:

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

Statistics - Actuarial Mathematics Joint Programme

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 in-depth study in Statistics and Actuarial Mathematics.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT HONOURS 120 CREDIT HOURS	005.100, 136.169, or 136.150 ¹ and 136.170 ¹ , 136.130 ¹ , 074.101 ² , Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 9 credit hours electives A "W" course must be taken in Year I or II ³ 30 Hours	005.200 ⁴ , 010.202, 010.212, 010.221, 013.2HF (or 013.2HA and 013.2HB), 136.2DA ⁵ , Plus 9 approved credit hours 30 Hours	005.305, 005.347 and 005.348 (or 005.312 and 005.313 ⁶) 005.350, 005.360, 010.313, 010.323, 010.333, 010.353, 010.424, (or 010.434) 30 Hours	005.349, 005.414, 005.452, 005.453, 010.414, 010.424 or 010.434 (whichever not yet taken), 027.215, 074.126 Plus 6 approved credit hours 30 Hours

¹136.131 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.

²074.101 may be taken in Year I or later in the program.

³The 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*.

⁴005.200 may be taken in Year I or II.

⁵136.2LA may be taken in place of 136.2DA.

⁶005.312 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.
(Letters in brackets indicate minimum prerequisite standing for further study.)

Entry to Honours

To enter the Honours program, students must have a "B" or better in 005.200 and either: a grade of "B" in 136.169 or a "B" average in 136.150¹ and 136.170¹.

Recommended Electives

010.405, 010.406, 010.415, Accounting and Finance 009.110, 009.220, 009.341, Business Administration 027.200, Economics 018.120 (or 018.121 and 018.122), 018.245

¹136.151, 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 Changes are:

- 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.
- 013.234 (or 013.239 and 013.249) have been replaced by 136.2HF (or 136.2HA and 136.2HB).
- Economics 018.121 and 018.122 are added as substitutes for the full course 018.120 in the list of recommended electives.
- 013.235 and 013.246 have been replaced by 136.2LA and 136.2DA respectively in Footnote 5.

Proposed Program:

STATISTICS (005)

Head: S. Cheng

General Office: 338 Machray Hall Telephone: (204) 474-9826

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS 120 CREDIT HOURS	005.100, 136.169 (or 136.150 ¹ and 136.170 ²), 136.130 ³ 074.101 ⁴ Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 9 credit hours	005.200 ⁵ , 136.2HA and 136.2HB (or 136.2HF), 136.2DA, 136.120 ⁶ Plus 18 credit hours ⁷	005.305, 005.347 and 005.348 (or 005.312 and 005.313 ⁸), 005.350, 005.360 013.332 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 with at least 9 credit hours from 005.458, 005.459, 005.462, 005.469 and 005.470 Plus 12 credit hours ⁹	005.414, 005.452, 005.453
	A "W" course must be taken in Year I or II ¹⁰			
	30 Hours	30 Hours	30 Hours	30 Hours
HONOURS DOUBLE MINIMUM 120 CREDIT HOURS	By arrangement with departments concerned			
FOUR YEAR MAJOR ¹¹ 120 CREDIT HOURS	005.100, 136.169 (or 136.150 ¹ and 136.170 ²), 136.130 ³ , Plus 6 credit hours from the Faculty of Arts, which may include the "W" course Plus 12 credit hours	005.200 ⁵ , 136.2HA, 136.2HB, 074.101 ⁴ , 136.120 ⁶ Plus 15 credit hours	005.312, 005.313, 005.350, 005.360 Plus 18 credit hours from 005.301, 005.305, 005.317, 005.318, 005.338, 005.349, 005.414, 005.458, 005.459, 005.462, 005.469, 005.470 Plus 24 additional credit hours from list below ¹²	005.452, 005.453
	A "W" course must be taken in Year I or II ¹⁰			
THREE YEAR GENERAL	A minimum of 12 credit hours from 005.301, 005.312, 005.313, 005.317, 005.318, 005.338, 005.349, 005.350 ¹³ , 005.360 ¹⁴ , 005.469			
MINOR (For students in other faculties)	005.100	005.200, Plus 12 credit hours from 005.301, 005.312, 005.313, 005.317, 005.318, 005.338, 005.349, 005.350 ¹³ , 005.360 ¹⁴ , 005.469		

¹005.200, 074.101 and 136.120 may be taken either in Year I or II.

²136.131 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.

³005.312 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.

⁴Of 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.

⁵Of 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.

⁶005.350 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.

⁷The 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*.

⁸IMPORTANT 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

Mathematics - Actuarial Mathematics Joint Programme

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.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
JOINT HONOURS 120 CREDIT HOURS	136.169 (B) (or 136.150 ¹ and 136.170 ¹ (B)). 136.130 ¹ (B), 005.100, 005.200 (B) Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 9 credit hours of electives A "W" course must be taken in Year I or II ²	010.212, 010.221, 005.350, 005.360, 136.2SR, 136.2LA, 136.2HF, 136.2JA In the above chart, University I and Year II are part of a revised program; please see note 4.	010.313, 010.323, 010.333, 010.353, 013.338, 013.340, 013.372, 005.305 Plus 3 credit hours of approved electives In above chart, Years III and IV are part of an old program which is being revised; please see note 4.	010.202, 010.414, 013.345, 013.452, 013.373 ³ Plus 9 credit hours of approved electives
	30 Hours	30 Hours	30 Hours	30 Hours

¹136.131 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.

²The 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.)

³013.373 may be taken in Year 3 or 4.

⁴Important 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 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 136.169¹.

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.

¹136.131 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)

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
APPLIED MATHEMATICS JOINT HONOURS 120 CREDIT HOURS	005.100, 136.130 ¹ , 136.150 ¹ , and 136.170 ¹ (B) (or 136.169 (B)), 074.101 ² Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 9 credit hours of electives	005.200 ³ , 136.2SR, 136.2LA, 136.2GA, 136.2HA (B) and 136.2HB (B) (or 136.2HF ⁴), 136.2JA Plus 6 credit hours of electives. In the above chart, University I and Year II are part of a revised program; please see note 8 A "W" course must be taken in Year I or Year II ⁵	005.305, 005.347 ⁶ , 005.348 ⁶ , 005.350, 005.360, 006.320, 006.325, 013.332 Plus, if the former 006.245 has already been taken, choose 3 credit hours from Option List below Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA (the former 006.235) ⁷ . In the above chart, Years III and IV are part of an old program which is being revised, please see note 8.	005.414, 005.452, 005.453, Plus 3 credit hours from 005.458, 005.459, 005.462, 005.469, 005.470 Plus 18 credit hours from Option List below
	30 Hours	30 Hours	30 Hours	30 Hours

¹136.151, 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.

²074.101 may be taken in Year II.

³The 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*.

⁴005.200 may be taken either in Year I or II.

⁵136.2HF is highly recommended.

⁶005.312 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.

⁷Important Note: The former 006.245 satisfies this requirement; 006.245 was offered for the last time during 1999/2000, and a replacement will be offered as a third year course beginning in 2001/2002.

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

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 an 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 136.151¹ and 136.171¹, 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.

¹136.151, 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^a and either 136.170^a 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.

Physics: 016.240, 016.250, 016.260, 016.261, 016.265, 016.341, 016.365, 016.366, 016.369, 016.370, 016.437, 016.462, 016.464, 016.465.

Chemistry: 002.228, 002.229, 002.336, 002.337, 002.464, 002.465

Economics: 018.253, 018.270, 018.373, 018.370, 018.442, 018.443.

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^a, 136.150^a and 136.170^a, at least one of which must be either 136.150^a or 136.170^a, 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^a and 136.150^a.

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.

^a136.131 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

APPLIED
MATHEMATICS
FOUR YEAR
MAJOR*
120 CREDIT HOURS

136.130', 136.150' and
136.170' (or 136.169),
005.100', 074.101'
Plus 6 credit hours from the
Faculty of Arts, which may
include the "W" course

136.2SR, 136.2LA, 136.2GA,
136.2HF,
136.2JA
In the above chart, University I
and Year II are part of a revised
program; please see note 8.

006.320, 006.325, 006.329, 006.336, 006.337, 006.347,
013.332, 016.105', 136.2EA (unless already taken)

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 136.2JA (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.

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

MATHEMATICS
FOUR YEAR
MAJOR*
120 CREDIT HOURS

136.130', 136.150' and
136.170' (or 136.169),
005.100', 074.101'
Plus 6 credit hours from the
Faculty of Arts, which may
include the "W" course

136.2SR, 136.2LA,
136.2GA, 136.2HF, 136.2JA
In the above chart, University
I and Year II are part of a
revised program; please see
note 8.

013.338, 013.340, 013.345 and 013.372

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 136.2JA (the former 006.235)',
005.200 and 9 credit hours from 013.347, 013.349, 013.375
and 013.376

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

APPLIED
MATHEMATICS
FOUR YEAR
MAJOR WITH
COMPUTER
SCIENCE OPTION*
120 CREDIT HOURS

136.120, 136.130',
136.150' and 136.170'
(or 136.169)
074.101 and 074.102
Plus 6 credit hours from the
Faculty of Arts, which may
include the "W" course

136.2DA, 136.2GA,
136.2HA, 136.2HB, 136.2JA

006.320, 006.325, 006.337, 006.347, 013.332, 136.2EA (unless
already taken)

Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA
(the former 006.235)', 005.100 and 005.200; plus 6 credit hours of Applied Mathematics (006)
courses; plus one of the following patterns:

- "Graphics": 074.219, 074.349, 074.449; or
- "Software": 074.310, 074.348, 074.371; or
- "Theoretical Computer Science": 074.208, 074.213, 074.317 or 074.453; or
- "Hardware": 074.222, 074.223, 074.337 or 074.343; or
- "Artificial Intelligence": 074.319, two of: 074.419, 074.420, 074.436

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

APPLIED
MATHEMATICS
FOUR YEAR
MAJOR WITH
ECONOMICS
OPTION*
120 CREDIT HOURS

136.120, 136.131',
136.150' and 136.170'
(or 136.169), 018.120 (or
both 018.121 and 018.122)
Plus 6 credit hours from the
Faculty of Arts, which may
include the "W" course

136.2DA, 136.2GA,
136.2HA, 136.2HB, 136.2JA

006.320, 006.325, 006.336, 006.337, 006.347, 013.332,
136.2EA

Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA
(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

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

FOUR YEAR MAJOR
WITH
MANAGEMENT
SCIENCES OPTION*
120 CREDIT HOURS

136.120, 136.131', 136.150'
and 136.170'
(or 136.169)

136.2DA, 136.2GA,
136.2HA, 136.2HB, 136.2JA

006.320, 006.325, 006.329, 006.336, 006.337, 006.347,
013.332, 136.2EA

Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA
(the former 006.235)', 018.120 (or both 018.121 and 018.122), 005.100, 005.200, 074.101, plus
027.215, 027.340 and six (6) credit hours Management Sciences courses approved by the
department.

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

APPLIED
MATHEMATICS
FOUR YEAR
MAJOR WITH
STATISTICS OPTION*
120 CREDIT HOURS

136.120, 136.130', 136.150'
and 136.170', (or 136.169),
005.100
Plus 6 credit hours from the
Faculty of Arts, which may
include the "W" course

005.200, 136.2DA, 136.2GA,
136.2HA, 136.2HB, 136.2JA

006.320, 006.325, 006.337, 006.347, 013.332, 136.2EA
005.312 (or 005.347), 005.313 (or 005.348), 0005.350, 005.360

Plus one three credit hour course in ordinary differential equations beyond the level of 136.2JA
(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:

006.260	Mathematical Methods for Engineers I (L)	-4
006.261	Mathematical Methods for Engineers II (L)	-4
006.270	Introductory Numerical Methods for Engineers (L)	-4
013.228M	Number Systems and Geometry with Applications	-6
013.228FM	Les systèmes des nombres, la géométrie et les applications	-6
013.229M	Introduction to Algebraic Structures	-6
013.229FM	Introduction aux structures algébriques	-6
013.238M	Modern Concepts of Pure Mathematics	-6
013.238FM	Concepts modernes en mathématiques pures	-6

Service courses to be introduced:

136.2AFM Number Systems and Geometry with Applications +6

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 013.159); 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 (ou 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'équation, différences 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 136.131 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 suivants: 136.2HA, 136.2HF ou les anciens 006.227, 006.228, 006.243, 013.239 ou 013.234. Préalables : 136.130 (ou 136.131 ou l'ancien 013.146) et un de 136.169, 136.170, 136.171 ou 136.173 (ou les anciens 013.149, 013.159, ou 006.126). Donné au Collège de Saint-Boniface.*

Department of Mathematics**Courses to be deleted:**

006.220	Numerical Mathematics I	-3
006.220F	Mathématiques numériques I	-3
006.230	Applied Graph Theory	-3
006.235	Ordinary Differential Equations with Applications I	-3
006.235F	Équations différentielles ordinaires et leurs applications II	-3
006.241	Mathematical Modelling without Calculus	-3
006.245	Ordinary Differential Equations with Applications II	-3
013.224	Modern Geometry	-6
013.224F	Géométrie moderne	-6
013.226	Introduction to Number Theory	-3
013.226F	Introduction à la théorie des nombres	-3
013.234	Calculus	-6
013.235	Linear Algebra and Geometry	-6
013.237	Basic Concepts of Mathematical Analysis	-6
013.239	Calculus IIIA	-3
013.239F	Calcul IIIA	-3
013.246	Linear Algebra II	-3
013.246F	Algèbre linéaire II	-3
013.247	Combinatorial Mathematics	-6
013.247F	Mathématiques combinatoires	-6
013.249	Calculus IIIB	-3
013.249F	Calcul IIIB	-3

Courses to be introduced:

136.119F Sujets choisis en mathématiques +6
 Ce cours offre à l'étudiant un aperçu superficiel des mathématiques modernes. Les sujets étudiés sont tirés des systèmes de nombres, de la géométrie et de la combinatoire. Ce cours est terminal et sert comme préalable à aucun autre cours universitaire en mathématiques. Il peut être comptabilisé dans aucun programme spécialisé ou général, majeure ou mineure en sciences mathématiques. L'étudiant ne peut se faire créditer à la fois le 136.119 et les anciens 013.238 et 013.123. Un étudiant ne peut pas s'inscrire à ce cours s'il a reçu des crédits pour l'un des cours suivants ou s'il y est déjà inscrit: 136.100, 136.120, 136.130, 136.131, 136.150, 136.151, 136.152, 136.153, 136.168, 136.169 et les anciens 006.120, 006.121, 006.125, 006.144, 006.147, 010.115, 013.128, 013.139, 013.146, 013.159.

136.2AB Mathematical Modelling without Calculus +3
 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).*

136.2SR Sets and Real Numbers +3
 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*

MINOR (For students in other faculties)	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))	Plus 12 credit hours chosen from 200 and 300 level courses
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¹136.169 may be taken in place of 136.151 and 136.171, or 136.150 and 136.170.

²Students will register for 007.485 in Year IV, after participating in at least one Department field excursion per year. Students should be aware that they will be expected to contribute to transportation and accommodation costs. Please consult the departmental office at the beginning of each year for information about these trips.

³136.2HA and 136.2HB may be taken in place of 136.2BA and 136.2BB. Students should note that 136.130 is a prerequisite to 136.2HA, and a corequisite to 136.2HB.

⁴Geology: Year III - 30 hours in Regular Session, six (6) hours (007.449) in following Summer Session. Geophysics: Year III - 28 hours in Regular Session, six (6) hours (007.474) in following Summer Session. 007.449 and 007.474 will normally be taken immediately following the spring examinations on or about May 1 and will continue for approximately three weeks. Registration will show as Summer Session.

⁵006.325 and 006.347 may be taken in place of 006.360 and 006.343.

⁶The 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*.

⁷The University written English and mathematics requirement must be successfully completed 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*.

⁸For the purposes of students in the Geophysics Honours and Major programs, this course will count as the full 4 credit hours.

⁹IMPORTANT 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.

Prerequisite Information

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

To fulfill prerequisite requirements, a grade of "C" must be achieved in any course stipulated as a prerequisite to a further course in Geological Sciences.

Honours Requirements and Options

To enter any of the Geological Sciences Honours programs, a student must have the grades specified in the charts above for the first year courses, and have satisfied the Faculty requirements for entry to the Honours program. Students who do not obtain the entrance requirements for the Honours program in their first year but who are interested in obtaining an Honours degree should consult with the Department before registering for their second year.

Honours Geology Option

The following courses are available as Geological Sciences elective courses in Year III and IV of the Honours Geology program. These courses will be taught in alternate years unless otherwise indicated: 007.329, 007.342, 007.349*, 007.374, 007.375, 007.428, 007.429, 007.431, 007.432, 007.433, 007.463, 007.466, 007.483, (*To be offered every year.)

Honours Geophysics Option

Students who wish to enter the Honours Geophysics Option and have not taken 007.123 may arrange with the Department to make up this credit. Students must contact the Department during the spring preceding entrance to the Honours program. All course choices in the Honours program should be made after consultation with the Coordinator of the Geophysics program.

Four Year Major in Geology

To enter the Four Year Major in Geology, students must have either 007.123 or 007.124, or one of 007.134 or 007.144 and one of 007.135, 007.136 or 007.137 (C+). Students must also satisfy all Faculty requirements for entry to the Four Year Major program.

Four Year Major in Geophysics

To enter the Four Year Major in Geophysics, students must have either 007.123 or 007.124, or one of 007.134 or 007.144 and one of 007.135, 007.136 or 007.137 (C+); 016.105 (C+) or 016.102 (B), 016.107 (C), 136.151¹⁰ (C+), and 136.171¹⁰ (C) (or 136.150 (C+) and 136.170(C))¹⁰. Students must also satisfy all Faculty requirements for entry to the Four Year Major program. Geophysics Major students intending to pursue a professional career or advanced studies in Geophysics are advised to take, as electives, as many as possible of the geophysics, physics and mathematics courses listed in the Geophysics Honours program. These programs are designed for students interested in combining an in-depth study of Geology and Geophysics with broad coverage of another subject or subjects of their choice (Science or non-Science). It does not give professional standing for those planning careers in the Geological Sciences, although such standing can be achieved with a Master's degree. Admission to graduate programs may be conditional upon completing additional courses or require a period of pre-Master's study. Students intending to proceed to a Master's degree must consult with the Department at the beginning of their second year of undergraduate study and in each subsequent year.

Preparation for Professional Careers

Students who plan to enter the scientific or professional fields of geology or geophysics should elect the Honours program. The B.Sc. (Hons.) is a recognized professional degree. The Four Year Major program may not give professional standing, depending on options chosen.

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 this requirement in the Department of Geological Sciences, students must select a minimum of 12 credit hours at the 200 or 300 level.

¹⁰136.169 may be taken in place of 136.151 and 136.171, or 136.150 and 136.170.

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.

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) L**

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) L**

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) L**

The theory and application of spectral methods in geophysics. The use of Fourier transforms, convolution, power spectra, coherence, transfer functions, covariance, correlation and filtering. *Offered in 1999-2000 and in alternate years thereafter. Pre-requisite: 007.206. Co-requisite: 006.343 or 006.325.*

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

111

C

Department of Computer Science

Course to be deleted:

074.122	Computers and the Modern World	-6
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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
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Service course to be deleted:

074.100	Information Technology for Management (L)	-3
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NET CHANGE IN CREDIT HOURS:	-3
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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

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS 123 CREDIT HOURS	002.130 (B), 002.131 (B) 016.105 (C) and 016.107 (C), or 016.102 (C+) and 016.103 (C+), 136.150 ¹ (C), plus one of 136.120, 136.130 ¹ , 136.170 ¹ with a grade of "C" Plus 6 credit hours from the Faculty of Arts, which should include the "W" course Plus 6 credit hours of electives ²	At least 12 credit hours from: 002.221, 002.222, 002.228, 002.229, 002.236 (060.236), 002.237 (060.237) ³ , 002.238, 002.247, Whichever two of: 136.120, 136.130 ¹ , 136.170 ¹ not yet taken ¹ Plus 12 credit hours of electives ⁴ which may include 6 credit hours of Chemistry ⁵	At least 18 credit hours from: any of 002.221, 002.222, 002.228, 002.229, 002.236 (060.236), 002.237 (060.237) ¹ 002.238, 002.247, not yet taken, and 002.336, 002.337, 002.338, 002.339, 002.358, 002.457, 002.468, 002.469 Plus 12 credit hours of electives ⁴ which may include 6 credit hours of Chemistry ⁵	002.460 and 002.461 Plus sufficient credit hours from Chemistry courses not yet taken ¹ to total a minimum of 60 credit hours Plus sufficient electives ⁴ to total a minimum of 33 credit hours
A "W" course must be taken in University I or Year II ⁶				
	30 Hours	30 Hours	30 Hours	33 Hours
FOUR YEAR MAJOR ⁷ 120 CREDIT HOURS	002.130 (C+), 002.131 (C+) 016.105 and 016.107, or 016.102 and 016.103 136.150 ¹ , plus one of 136.120, 136.130 ¹ , 136.170 ¹ Plus 6 credit hours from the Faculty of Arts, which may include the "W" course Plus 6 credit hours of electives ²	At least 12 credit hours from: 002.221, 002.222, 002.228, 002.229, 002.236 (060.236), 002.237 (060.237) ³ , 002.238, 002.247, Whichever two of 136.120, 136.130 ¹ , 136.170 ¹ not yet taken ¹ Plus 12 credit hours of electives ⁴ which may include 6 credit hours of Chemistry ⁵	At least 18 credit hours from: any of 002.221, 002.222, 002.228, 002.229, 002.236 (060.236), 002.237 (060.237) ¹ 002.238, 002.247, not yet taken, and 002.336, 002.337, 002.338, 002.339, 002.358, 002.457, 002.468, 002.469 Plus 12 credit hours of electives ⁴ which may include 6 credit hours of Chemistry ⁵	002.460 Sufficient credit hours from Chemistry courses not yet taken ¹ to total a minimum of 57 credit hours Plus sufficient electives ⁴ to total a minimum of 30 credit hours
A "W" course must be taken in University I or Year II ⁶				
THREE YEAR GENERAL		A minimum of 12 credit hours from: 002.221, 002.222, 002.228, 002.229, 002.238, 002.247		
MINOR (For students in other faculties)	002.130 (C) and 002.131 (C)	Normally 002.221 and 002.222, plus an additional 6 credit hours		
JOINT MICROBIOLOGY- CHEMISTRY HONOURS AND FOUR YEAR MAJOR IN BIOCHEMISTRY		See Section 4.11 Microbiology		
JOINT MICROBIOLOGY- CHEMISTRY HONOURS IN BIOTECHNOLOGY		See Section 4.11 Microbiology		

¹136.151, 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; 136.169 may be taken in place of 136.150 and 136.170.

²Students intending to elect 002.236 and 002.237 (060.236 and 060.237) in either the Honours or the Four Year Major program should note that Biology 071.125 is a prerequisite.

³Other combinations of mathematics courses may be acceptable with the approval of the Department Head.

⁴Electives 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.

⁵Students must complete a minimum of six (6) credit hours in each of the following subject areas:

Analytical - 002.247, 002.347

Inorganic - 002.238, 002.338, 002.457, 002.468

and a minimum of nine credit hours in each of the following areas:

Organic/Biochemistry - 002.221, 002.222, 002.236 (060.236), 002.237 (060.237), 002.339, 002.358, 002.449, 002.458, 002.462, 002.463, 002.469, 002.470

Physical/Polymer - 002.228, 002.229, 002.336, 002.337, 002.349, 002.464, 002.465

⁶The 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*.

⁷IMPORTANT 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

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
HONOURS ACTUARIAL 120 CREDIT HOURS	136.169 (B), (or 136.150 ¹ and 136.170 ¹ (B)), 136.130 ¹ (B), and 005.100 Plus 6 credit hours from the Faculty of Arts, which should include the "W" course A "W" course must be taken in Year I or II ² 30 Hours	010.202, 010.212, 010.221, 005.200 ³ , 136.2HF (or 136.2HA and 136.2HB), 027.215 ⁴ 30 Hours	010.313, 010.323, 010.333, 010.353, 010.424 or 010.434 005.305, 005.350, 005.360, 006.325 30 Hours	010.414, 010.415, whichever of 010.424 or 010.434 not yet taken, 005.347 ⁵ or 005.312 ⁵ , 005.349 ⁵ , 013.246 ⁵ 30 Hours

JOINT MATHEMATICS
ACTUARIAL MATHEMATICS
HONOURS

See Section 4.10 Mathematics

JOINT STATISTICS-ACTUARIAL
MATHEMATICS HONOURS

See Section 4.13 Statistics

¹136.151, 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.

²005.200 may be taken in Year 1 or Year 2.

³005.347 or 005.312 and (or) 005.349 may be taken in Year III or IV.

⁴The 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.*

⁵136.2DA and 027.215 may be taken in Year 2, 3 or 4.

The Faculty of Science offers an interdisciplinary program leading to a B.Sc. (Honours) degree in Actuarial Mathematics. Courses from the Faculty of Management are included in this program.

To enter either of these options, a student must have 136.150¹ and 136.170¹ or 136.169 and 136.130¹ with a grade of at least "B" in 136.170¹ or 136.169 and 136.130¹ 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 (136.2SR and 300 or 400 level) and Statistics (005.348 or 400 level). Other electives may be selected through consultation with the Program Head.

Recommended Electives

Year 1	Computer Science 074.101, Economics 018.120 (or 018.121 and 018.122)
Year 2	Accounting and Finance 009.110, 009.111, 009.220, Economics 018.245
Year 3	Accounting and Finance 009.341
Year 4	010.405, 010.406, Business Administration 027.200, 027.423, Statistics 005.414

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.

¹136.151, 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.

The changes are:

- 013.234 (or 013.239 and 013.249) has been deleted and replaced by 136.2HF (or 136.2HA and 136.2HB).
- 013.237 has been deleted from the list of suggested electives in Year III and IV and replaced by 136.2SR.
- Economics 018.121 and 018.122 have been recommended as alternative electives to Economic 018.120.

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 (3-0:0-0) +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 (3-4:0-0) 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.

PROPOSED RENUMBERING OF COURSES FOR THE DEPARTMENT OF CURRICULUM, TEACHING AND LEARNING
THAT ARE SCHEDULED TO BE INTRODUCED FOR THE 2002-2003 REGULAR SESSION.

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
063.165	132.171	Literature for Adolescents	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. <i>Students may not hold credit for 132.171 and the former 063.204.</i>
063.166	132.172	Literature for Children	A survey of literature available for children; criteria for evaluation of books and related materials. Aims at development of standards for judging children's literature. <i>Students may not hold credit for 132.172 and the former 063.212.</i>

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
081.139	132.232	Teaching Physics in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of physics at the senior years level. <i>Prerequisite: 132.127.</i>
081.140	132.233	Teaching Computer Science in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of computer science at the senior years level. <i>Prerequisite: 132.127.</i>
081.141	132.127	Teaching Senior Years Science (3)	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.
081.150	132.175	Basic Experiences in Movement and Dance Education (3)	A study of teaching movements/dance education in early (K-4) and middle years (5-8) schools. For both classroom teachers and physical education specialists, the course covers all traditional areas of movement instruction as well as movements' role across the curriculum. <i>Students may not hold credit for 132.175 and the former 081.212 and 081.213.</i>
081.151	132.176	Historical Development of Physical Science Up to the 20 th Century (3)	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. <i>Students may not hold credit for 132.176 and the former 081.203.</i>
99 081.152	132.177	Historical Development of Physical Science in the 20 th Century (3)	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. <i>Students may not hold credit for 132.177 and the former 081.203. Prerequisite: 132.176.</i>
081.153	132.178	Integration of Technological Literacy Across the K-12 Curriculum (3)	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. <i>Students may not hold credit for both 132.178 and the former 081.153.</i>
081.154	132.179	Recent Developments in Curriculum: Mathematics and Natural Sciences (3)	The study of selected topics in curriculum and instruction in mathematics and natural sciences.
081.155	132.180	Recent Developments in Learning and Teaching Senior Years Mathematics (3)	The study of selected topics in Mathematics in senior years.

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<u>EXISTING #</u>	<u>POSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
063.225	132.207	Early Years Curriculum and Instruction in Children's Literature (1)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.226	132.208	Early Years Multi-Language Development (1)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.227	132.200	Early Years Philosophy and Practice II (1)	An advanced interdisciplinary study of curriculum, instructional approaches and techniques relevant to Early Years education (Kindergarten to Grade 4).
063.230	132.210	Teaching Language Arts in the Middle Years (3)	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.
063.231	132.211	Teaching Social Studies in the Middle Years (3)	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.
063.232	132.212	Teaching Art in the Middle Years (2)	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.
063.240	132.250	Themes in Senior Years Education (3)	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.
7 96 063.241	132.251	Language and Literacy Across the Curriculum (3)	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.
063.290	132.296	Early Years School Experience II (6)	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.
063.291	132.297	Middle Years School Experience II (9)	A continuation of practical teaching experience in Middle Years schools under the guidance and supervision of faculty members and collaborating teachers. The practicum will be closely integrated with the study of curriculum and instruction at the Middle Years level.
063.292	132.298	Senior Years School Experience II (6)	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.

<u>EXISTING #</u>	<u>PROPOSED #</u>	<u>COURSE TITLE & CREDIT HOURS</u>	<u>COURSE DESCRIPTION</u>
063.133	132.122	Teaching a Second Language in Senior Years (3)	Study of curriculum and instructional approaches relevant to teaching a heritage language, an international language, an aboriginal language, or English as a second language.
063.134	132.223	Teaching History in Senior Years (3)	A study of curriculum, instructional approaches relevant to the teaching of History at the Senior Years level. <i>Prerequisite: 132.123.</i>
063.135	132.224	Teaching Music in Senior Years (3)	A study of curriculum, instructional approaches and techniques relevant to the teaching of music at the senior level. <i>Prerequisite: 132.120.</i>
063.136	132.225	Teaching Drama and Theatre in Senior Years (3)	A study of curriculum and instructional approaches relevant to the teaching of drama and theatre at the senior years level. <i>Prerequisite: 132.120.</i>
063.140	132.150	Education in the Senior Years (3)	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.
063.141	132.151	Principles and Processes of Teaching (3)	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. <i>Students may not hold credit for 132.151 and the former 081.317.</i>
063.150	132.160	Teaching General Music (3)	A study of teaching music in early and middle years schools. For both classroom teachers and music specialists, the course covers all traditional areas of music instruction as well as music's role across the curriculum.
063.152	132.161	Content-Based Second Language Instruction (3)	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.
063.153	132.162	Principles and Procedures of Second Language Teaching (3)	Examination of principles and demonstration of procedures for developing basic second language knowledge and skills in various contexts, e.g., ESL, EFL, AL, HL, IL.
063.154	132.163	Practicum in Second Language Teaching (3)	Practical second language teaching experiences, including: observing recorded and live teaching, planning lessons and units, micro and live teaching, and reflective assessment. <i>Prerequisite or corequisite: 132.162.</i>
063.155	132.164	Teaching ESL Vocabulary and Pronunciation (3)	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).
063.156	132.165	Teaching ESL Grammar (3)	Examination of English sentence and discourse grammar, and demonstration of procedures of teaching grammar in communicative and academic contexts.
063.157	132.166	Computers in Second Language Teaching (3)	Concepts and methodology in Computer Assisted Language Learning (CALL), with emphasis on using the Internet.

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**

- 144.264 Le discours amoureux dans la littérature française (3)
144.265 La nature dans la littérature française (3)
144.266 La fantaisie dans la littérature française (3)
144.267 Civilisation française (3)
144.283 L'individu et le pays (3)
144.284 La quête du bonheur (3)
144.285 Le folklore et la littérature orale (3)
144.286 L'influence de la littérature orale. (3)
144.287 Civilisation canadienne-française (3)

144.291 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.*

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:

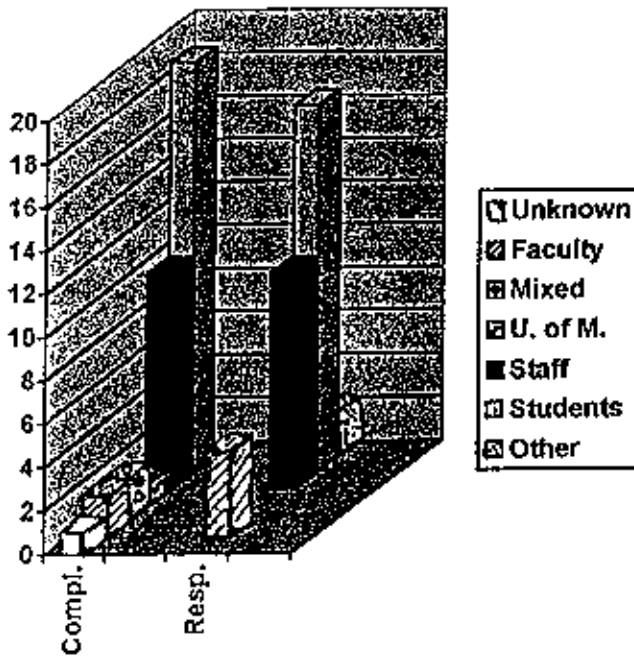
- i) The University's *Contractor's Equity Achievement Report*, which the University submitted in April 1998.
- ii) Additional material requested by HRDC on the University's plan to improve accessibility of its buildings. The EEO prepared a document with the assistance of the Director of Physical Plant 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



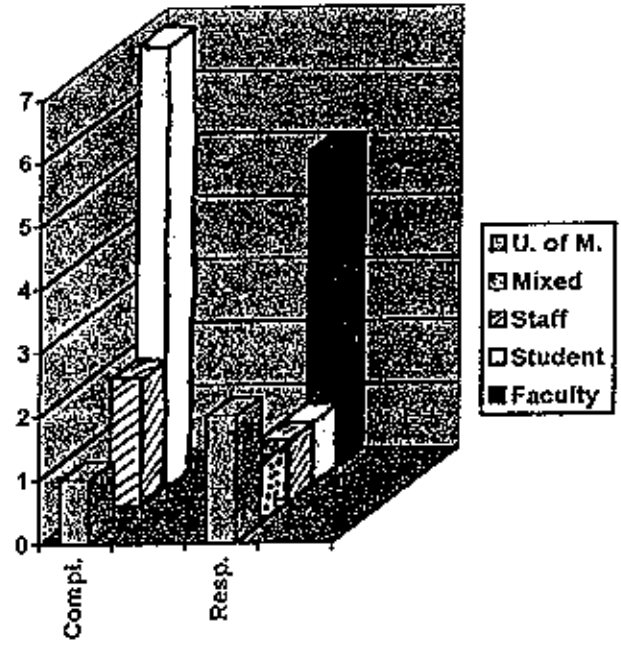
Complainants

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

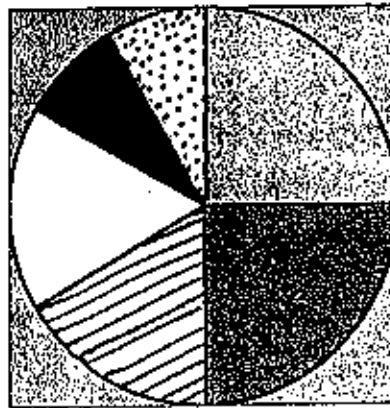
1 U.of M., 2 Staff, 7 Student

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



Disability
Gender
Sex. Orient.
Race
Marital Sta.
Other

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.



THE UNIVERSITY OF MANITOBA

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UNIVERSITY SECRETARIAT

311 Administration Bldg.
Winnipeg, Manitoba
Canada R3T 2N2

Tel: (204) 474-8174
Fax: (204) 474-7511

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 474-8174.

- 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 1999

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.

/sgp

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.



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THE UNIVERSITY OF MANITOBA

FACULTY OF NURSING
Office of the Associate Dean, Undergraduate ProgramsWinnipeg, Manitoba
Canada R3T 2N2Tel: (204) 474-6375
Fax: (204) 474-7682
Email: Wanda_Chernomas@UManitoba.ca

DATE: May 18, 1999.

To: Ms. Bev Sawicki, Secretary of Senate

From: Dr. Wanda Chernomas, Associate Dean, Undergraduate Programs *Wanda Chernomas*

Subject: Admission Requirements

Recommendations were passed at the May 6, 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:

CURRENT	PROPOSED
- Math 40S (300)	- Math 40S (300)
- English 40 - 2 credits (300)	- English 40 - 2 credits (300)
- Chemistry 40S (300) OR Physics 40S (300)	- a 40S level science
- A minimum of 60% is required in the three 40S (300) level courses, with an overall average of 63%.	- A minimum of 60% is required in the three 40S (300) level courses, with an overall average of 63%

B. Admission to Brandon and Norway House Sites - Transfer Students:

CURRENT	PROPOSED
- Completion of 24 credit hours at a university level	- Completion of 24 credit hours at a university level
- Minimum of 2.0 cumulative grade point average	- Minimum 2.0 cumulative grade point average
- a 100-level English (6 credits) OR English 40-2 cr. (300)	- a 100-level English (3 credits) OR English 40-2 cr. (300)
- a 100 level Chemistry (3 credits) or Chem 40S (300); OR a 100 level Physics (3 credits) or Physics 40S (300)	- a 100-level Science (3 credits) OR a 40S science
- a minimum grade of "C" in each	- a minimum grade of "C" in each

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. e).
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 (c) 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,

E.A. Braid, Chair
Senate Committee on Rules and Procedures

Comments of the Executive Committee:

The Executive Committee endorses the report to Senate.

- c) 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

(Approved by Senate on May 12, 1971. Further edited by Senate Committee on Rules and Procedures in May, 1972. Amended by Faculty Council on September 27, 1972, and on May 16, 1980, and by Senate, June 2, 1981.)

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NOTE: DELETIONS ARE UNDERLINED
ADDITIONS ARE BOLD AND ITALICIZED

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 designate
 - 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).
-
- a) *All full-time faculty members*
 - b) *All part-time faculty members*
 - c) *Chair, Graduate Nursing Students Association*
 - d) *Five undergraduate students consisting of: the Senior Stick, or in the absence of the Senior Stick, the Vice-Stick; one student from each of Years II, III and IV; and the Student President from the Baccalaureate Program for Registered Nurses*
 - e) *Dean, Faculty of Medicine or designate*
 - f) *President, Manitoba Association of Registered Nurses or designate*
 - g) *Nursing Chair, Red River College or designate*
 - h) *Nursing Chair, Keewatin Community College or designate*
 - i) *Faculty Librarian*
 - j) *Administrative Coordinator of the Faculty*
 - k) *One Support Staff member (elected by and from the Support Staff)*
 - l) *Two Clinical Education Facilitators (elected by and from the Clinical Education Facilitators)*
 - m) *Nursing Alumni Association representative, appointed by the Dean*
 - n) *Executive Assistant (non-voting)*
 - o) *Communications Officer (non-voting)*

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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 designee.

(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 removal 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.1(c) one representative of the support staff selected annually by and from the members of the support staff.

I.1(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, 068.288 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 ArtsDepartment of Anthropology

Courses to be deleted:

076.320	History of Anthropology	-6
076.336	Ethnohistory of Sub-Saharan Africa	-3
076.336	Ethnohistoire de l'Afrique sous-saharienne	-3
076.369	Peoples and Cultures of Contemporary Latin America	-6

Courses to be introduced:

076.2AA Prehispanic Cultures of Mexico (D) +3

This course will examine the archaeology of Mexico with special focus on Purhepecha 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-requisite: written consent of the Co-ordinator for Latin American Studies.*

076.2BB Anthropological Perspectives on Contemporary Mexico (B) +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-requisite: written consent of the Co-ordinator for Latin American Studies.*

076.2XX Ethnohistory of Sub-Saharan Africa (B) +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 076.336 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 (B) +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 076.349, 076.353 or 076.369. Pre-requisite: 076.120 or 076.122 or written consent of instructor.*

076.3XX History of Anthropology (D) +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-requisite: 076.239 or written consent of instructor.*

076.3XY Demography of Past Populations (C) +3

This course provides students with a basic understanding of demographic methods and techniques

8.1 ANTHROPOLOGY (076)

Head: E. Judd

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL	(no changes)			
MAJOR				
Total: 30 hours of credit				
ADVANCED	076.121 and 076.122 or	1. 076.239	1. 076.320 076.3XX	1. 076.485
MAJOR ¹	076.120		2. One of 076.289, 076.339, 076.395, 076.398, 076.399	2. 9 hours of credit in Anthropology; no more than 6 hours of credit may be taken from 076.483 or 076.484
Total: 60 hours of credit				
<i>Required in years two and three are six additional hours of credit from each of groups B, C, D; an additional 9 1/2 hours of credit in Anthropology preferably including courses from Group E and 076.237</i>				
MINOR	(no changes)			
Total: 18 hours of credit				
(no changes to footnotes)				

Deleted material

Added material

former 099.201 or 099.3AA. Pre-requisite: 099.1AA or the former 099.091 or written consent of instructor.

099.2BB Intermediate Japanese +6

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 099.3BB or the former 099.212. Pre-requisite: 099.1BB or the former 099.092 or written consent of instructor.*

099.2CC Intermediate Sanskrit +6

Advanced grammar, vocabulary, and syntax to enable the student to read epic and paurnic materials. *Students may not hold credit for both 099.2CC and the former 099.103 or the former 020.136. Pre-requisite: 099.1CC or the former 099.093 or written consent of instructor.*

099.2DD Intermediate Hindi-Urdu +6

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 +3

An interdisciplinary study of Japanese civilization from earliest times to the Meiji Restoration. All aspects of traditional Japanese culture will be examined, including geography, religion, philosophy, history, sociology, economics and politics. The nature of Japanese cultural identity will be taken as a unifying theme. *Students may not hold credit for 099.2JJ and 099.211.*

099.2KK Chinese Civilization +3

An interdisciplinary study of Chinese civilization from earliest times to the Opium War. All aspects of traditional Chinese culture will be examined, including geography, religion, philosophy, history, sociology, economics and politics. A central unifying theme will be the examination of Chinese cultural identity. *Students may not hold credit for 099.2KK and 099.211.*

099.2XX History, Culture and Society in Chinese Film +3

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 +3

This course will focus on the cinematic presentation of women in Chinese films. Films will be selected largely from those produced recently in China, Taiwan, and Hong Kong, as well as in North America by ethnic Chinese directors. The intention is to review how the image of women as reflected in Chinese cinema has changed with time, place, and modern technology.

099.3AA Advanced Chinese (Mandarin) +6

This course is for those who have taken Intermediate Chinese or who have obtained basic language skills in Mandarin Chinese elsewhere. A balanced approach to reading, writing, and aural/oral skills will be employed. Students will use advanced prepared texts and will also be introduced to selected examples of contemporary Chinese literature. *Students may not hold credit for both 099.3AA and*

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Asian Studies

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8.2 ASIAN STUDIES (099A) Program Coordinator: T. Russell

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL	011.141 (099.141) or	6 hours of credit in one of	6 hours of credit from List	
MAJOR	011.142 (099.142) and	the 100-level 099-level	A above the 200-level ²	
Total: 30 hours of credit	011.143 (099.143)	language courses ¹ from list A; 099.207 or 099.211; 6 hours of credit in 200-level courses from List A	100-level ²	
MINOR	011.141 (099.141) or	12 hours of credit chosen from List A		
Total: 18 hours of credit	011.142 (099.142) and 011.143 (099.143)			

¹Students who wish to concentrate heavily on languages may take a 100-level 099-level Asian language course in first year.

Students with matriculation in an Asian language may do a 200-level 100-level Asian language course in the second year and are encouraged to take a 300-level 200-level language in the third year.

²Students may substitute up to 6 hours of credit of Asian language courses at the 200 level 100-level.

(Material to be added)

(Material to be deleted)

099.2AA	Intermediate Chinese (Mandarin)	6
099.2BB	Intermediate Japanese	6
099.2CC	Intermediate Sanskrit	6
099.2DD	Intermediate Hindi-Urdu	6
099.3AA	Advanced Chinese (Mandarin)	6
099.3BB	Advanced Japanese	6
099.3DD	Advanced Hindi-Urdu	6
<i>*No longer offered</i>		

(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. 108 hours.

Effective 2001-2001

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

3. Faculty of Science

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Environmental Science Programme

Courses to be introduced:

128.3XY Field Topics in Environmental Science I +1.5
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 +3
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 +6
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 +1.5
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 +3
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

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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 decrease it slightly in the two following years. The changes in contact times have led to a revaluation 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 (SCCCC) 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 Strengths: 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. SCCCC 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 018.262 *Special Topics in Economics*. SCCCC 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 1999.
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)
 or
 018.121 Introduction to Canadian Economic Issues and Policies (3)
 and
 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)
 011.150 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

- 019.150 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

- 099.142 Asian Civilizations to 1500 (3)
 Cross-listed with History (011.142)
 099.143 Asian Civilizations Since 1500 (3)
 Cross-listed with History (011.143)
 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 (6)
 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

- 053.128 Introductory Human Geography (3)
 053.221 Economic Geography (6)
 053.359 Geography of Developing Countries (6)
 053.380 Geography of Transportation Development (3)
 053.464 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 (S) (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)
 011.401 Imperialism, Decolonization and Neo-Colonialism, 1700 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

- 077.248 Population Problems (3)
 077.254 Social Inequality (3)
 077.384 Community and Social Reconstruction (3)

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.

22 October 1999

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. SCCCC 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. Dronzek, Chair
Senate Committee on Curriculum and Course Changes

Terms of Reference: *Senate Handbook* (Revised 1992), pp. 70-71.

/sgp

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

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
GENERAL MAJOR Total: 30 hours of credit	(no changes)			
ADVANCED MAJOR Total: 48 hours of credit	One of 099.153, 099.154	099.252	099.358	36 additional hours of credit from List A and/or List B, of which 6 hours of credit are at or above the 300-level and 9 hours of credit are from List B
MINOR Total: 18 hours of credit	(no changes)			
HONOURS SINGLE	099.153 and 099.154	A. 54 hours of credit in Women's Studies as follows: 1. 099.252 2. 099.358 3. 099.4XX 4. 099.4XY 5. 15 hours of credit from List B 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 B. 24 hours of credit in ancillary options Total for Years II, III and IV combined: 78 hours of credit		

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)

November 2, 1999

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 to take courses from either University. The Women's Studies program at the University of Winnipeg received COPSE 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, *Practicum 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 3.3 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 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.

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 \$818,136 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 UMFH 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.

c.c. Members, Board of Governors.
Members of Senate.

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REPORT

of the

ADMISSION APPEALS COMMITTEE

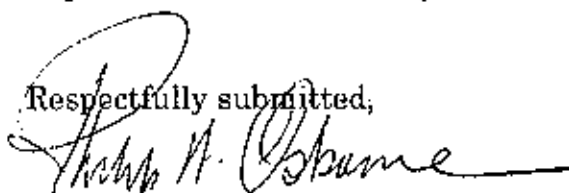
On August 4th 1999 the Committee heard an appeal from an applicant for admission to the Faculty of Medicine who was rejected because she failed to secure a sufficient score in a section of the MCAT exam. The appellant alleged that score was not indicative of her true ability because of some personal 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 pre-requisite 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 Dean, 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,



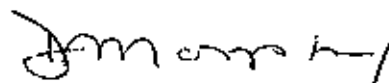
Professor Philip H. Osborne

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.

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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**

- ~~a)~~ The method of selection of student representatives, other than the Senior Stick/Vice Stick, and the Baccalaureate Program for Registered Nurses President, shall be at the discretion of the University of Manitoba Nursing Student's Association.

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, tenure-track and twelve month appointments~~ full-time faculty members.
- d) The presiding officer at all meetings of the Faculty Council shall be the Dean or his/her designate.
- 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 6 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.

I. 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 academic staff} of the School of Music ~~staff~~ on annual salary;

(b) Two additional students registered in the faculty making a total of five students.

(c) (See next page for text)
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-sofar 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.

8 October 1999

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, **076.369 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 **076.2AA 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 **076.288 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 ScienceEnvironmental 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

Terms of Reference: *Senate Handbook* (Revised 1992), pp. 70-71.

/sgp

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.*

076.3YX Anthropological Perspectives on Globalization and the World-System (B) +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: 076.286 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 076.393. Pre-requisite: 076.120, 076.121 or written consent of instructor.*

NET CHANGE IN CREDIT HOURS: +18

Department of Asian Studies

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 099.236, 099.2AA, 099.3AA, or who have obtained Grade 12 Chinese in Canada or abroad. Pre-requisite: 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 020.090, or the former 099.093. 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 099.236. 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 099.2JJ 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 099.091), 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

Faculty of Arts - Course and Program Changes - Fall 1999

Asian Studies

1999/2000 General Calendar - Page 84

List A: Courses Acceptable for Asian Studies Credit

Course No.

Credit Hours

Faculty of Arts

Anthropology

076.245

Ethnology of China

3

Geography

History

011.309

Studies in Asian History

3

011.358

Topics in Recent World History I (M)

3

[Acceptable for credit only when the topic is Asia-related]

011.396

China, 1911 to the Present

3

Interdisciplinary - Asian Languages

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

099.1AA

Introduction to Chinese (Mandarin)

6

099.1BB

Introduction to Japanese

6

099.1CC

Basic Sanskrit

6

099.1DD

Basic Hindi-Urdu

6

099.201*

Advanced Chinese (Mandarin)

6

099.212*

Advanced Japanese

6

099.214*

Advanced Hindi-Urdu

6

099.234

Special Studies in Epic and Pauranic Sanskrit I

3

099.235

Special Studies in Epic and Pauranic Sanskrit II

3

099.236

Mandarin Comprehension

6

2. School of Medical RehabilitationPhysical Therapy Program

Courses to be deleted:

Effective 2000-2001

068.146	Basic Clinical Sciences	-6
068.171	Physical Therapy Management 1A	-3
068.172	Physical Therapy Management 1B	-7
068.270	Fundamentals of Physical Therapy Management of Musculoskeletal Disorders	-5
068.271	Orthopedic Assessment and Management of Limbs and Spine	-4
068.273	Human Performance	-3
068.274	Cardiorespiratory Clinical Education	-8
068.288	Musculoskeletal Clinical Education	-8
068.290	Fundamentals of Physical Therapy Management	-3

Effective 2001-2002

068.371	Directed Studies - Module A	-3
068.390	Summer Internship I	-5
068.391	Summer Internship II	-5

Courses to be introduced:

Effective 2000-2001

068.1AA	<u>Basic Clinical Sciences</u>	+3
A lecture and tutorial course covering basic physiology related to membrane, muscle, pain and the cardiovascular, respiratory, endocrine, and immune systems. 44 hours.		
068.1BB	<u>Physical Therapy Management</u>	+10
A theory and practical course on applying physical therapy techniques to patients with cardio and respiratory disorders. 166 hours.		
068.1CC	<u>Rehabilitation Exercise I</u>	+6
Consists of lectures, tutorials, and practical sessions focused on topics of exercise physiology, fitness testing and training and rehabilitation exercise skills related to the healthy adult and selected patient populations. 105 hours.		
068.1DD	<u>Cardiorespiratory Clinical Education</u>	+8
Consists of a period of clinical practise related to the management of cardiorespiratory conditions. <i>Course evaluated on a pass/fail basis.</i> 300 hours.		
068.2AA	<u>Physical Therapy Management of Musculoskeletal Disorders</u>	+8
A theory and practical course on physical therapy management of patients with specific musculoskeletal disorders. 149 hours.		

School of Medical Rehabilitation
Division of Physical Therapy

Summary of Proposed Curriculum Changes

Courses Deleted	Courses Introduced
68.146 Basic Clinical Sciences (6)	68.1AA Basic Clinical Sciences (3)
68.171 Physical Therapy Management 1A (3)	
68.172 Physical Therapy Management 1B (7)	68.1BB Physical Therapy Management (10)
	68.1CC Rehabilitation Exercise I (6)
68.274 Cardiorespiratory Clinical Education (8)	68.1DD Cardiorespiratory Clinical Education (8)
68.270 Fundamentals of Physical Therapy Management of Musculoskeletal Disorders (5)	68.2AA Physical Therapy Management of Musculoskeletal Disorders (8)
68.271 Orthopedic Assessment and Management of Limbs and Spine (4)	68.2BB Orthopaedic Assessment and Management I (6)
68.273 Human Performance (3)	68.2CC Rehabilitation Exercise II (2)
68.288 Musculoskeletal Clinical Education (8)	68.2DD Musculoskeletal Clinical Education (10)
68.290 Fundamentals of Physical Therapy Management (3)	
	68.2EE Orthopaedic Assessment and Management II (6)
68.390 Summer Internship I (5)	
68.391 Summer Internship II (5)	68.3AA Summer Internship (8)
68.371 Directed Studies – Module A (3)	68.3BB Directed Studies Module A (3)
Total credit hours = 60	Total credit hours = 68

ENVIRONMENTAL SCIENCE PROGRAM
Program Change
2000 - 2001

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Proposed Program:

ENVIRONMENTAL SCIENCE PROGRAM (128)

Director: N.R. Hunter

General Office: 231 Machray Hall Telephone: (204) 474-9897

The Faculty of Science offers an interdisciplinary program leading to a B.Sc. Major degree in Environmental Science.

PROGRAM	UNIVERSITY I	YEAR II	YEAR III	YEAR IV
FOUR YEAR MAJOR* 120 CREDIT HOURS	128.100, 002.130, 002.131, 007.144*, 016.102, 016.103*, 071.125 Plus 6 credit hours from the Faculty of Arts, which may include the "W" course A "W" course and an "M" course must be taken in Year I or II Plus a "depth package" in a defined area of Environmental Science, approved by the Director, consisting of 27 credit hours of 200 (or higher) level courses with a minimum of 12 credit hours at the 300 or 400 level Plus 007.239, and one of: 136.120, 136.130*, 136.150*, 074.101, 074.126 Plus 9 credit hours approved Humanities/Social Science courses taken from the following*: 015.120, 015.129, 015.132, 015.229, 015.275, 015.283, 018.120, 018.239, 019.156, 019.213, 019.253, 019.256, 053.120, 053.128, 053.129, 053.221, 053.252, 053.352, 053.353, 061.210, 061.239, 076.122, 076.243, 076.250, 076.293, 076.396, 077.120, 077.227, 077.248, 077.369.	128.200, 128.217, 001.237 (022.237 or 065.237), 005.100 and 005.200 060.223	128.310, 128.320	128.410

	UNIVERSITY I	YEAR II	YEAR III	YEAR IV	YEAR V
MAJOR* COOPERATIVE OPTION 120 CREDIT HOURS	128.100, 002.130, 002.131, 007.144*, 016.102, 016.103*, 071.125 Plus 6 credit hours from the Faculty of Arts, which may include the "W" course A "W" course and an "M" course must be taken in Year I or II Plus a "depth package" in a defined area of Environmental Science, approved by the Director, consisting of 27 credit hours of 200 (or higher) level courses with a minimum of 12 credit hours at the 300 or 400 level Plus 007.239, and one of: 136.120, 136.130*, 136.150*, 074.101, 074.126 Plus 9 credit hours approved Humanities/Social Science courses taken from the following*: 015.120, 015.129, 015.132, 015.229, 015.275, 015.283, 018.120, 018.121, 018.122, 018.239, 019.156, 019.213, 019.253, 019.256, 053.120, 053.128, 053.129, 053.221, 053.252, 053.263, 053.264, 053.352, 053.353, 061.210, 061.239, 076.122, 076.243, 076.250, 076.293, 076.396, 077.120, 077.227, 077.248, 077.369.	128.200, 128.217, 001.237 (022.237 or 065.237), 005.100, and 005.200, 060.223	128.398, 128.399	128.310, 128.320, 128.498, 128.499	128.410

NOTE: The Cooperative Option is a five year program

THREE YEAR GENERAL	Minimum 12 credit hours from: 128.217, 128.300, 128.310, 128.320, 128.400, 128.410, 128.421, and 128.422
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*MINOR (For students in other faculties)	128.100	128.200, 128.310, 128.320, 128.410 one of 001.237, 022.237 or 065.237 (or either 001.228 or 022.229)
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*The Minor in Environmental Science is subject to the approval of the Council on Post-Secondary Education.

*007.123, 007.124 or 007.134 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 007.123, or 007.134 and one of 007.135, 007.136 or 007.137.

*016.105 and 016.107 may be used in lieu of 016.102 and 016.103.

*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.

*Other courses may be taken as approved by the Program Director.

The University written English and mathematics requirement must be successfully completed within the first 60 credit hours of this program. Completion of three credit hours from 136.130, 136.130, 136.150*, or 005.100 in Year I or II will satisfy the University mathematics requirement. 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 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 enrolment.
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.

to the present. At the same time, the role of the political economy in generating historical change is also emphasized, so that phenomena such as class formation, revolution, war, and globalization are understood as fundamentally linked to political economic developments. Historical work requires analytical acuity, a deep respect for empirical complexity and the literary skills necessary to produce analytical narrative—qualities essential to professional work in a variety of fields and to a critical appraisal of the present. From a policy perspective, assessing the uniqueness and significance of contemporary problems requires an understanding of their historical origins and development. Similarly, efforts to resolve current difficulties are enhanced by knowing the nature of earlier crises, their outcomes and the way they were generated by underlying historical realities.

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 merchantilism and capitalism, and through its understanding of production and exchange in a world increasingly dominated by market forces. Anthropology has provided unique insights into communalism, 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 the 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**

	YEAR 1	YEAR 2	YEAR 3	TOTAL Credit Hours
ANTHROPOLOGY		76.239(6)	76.332(3)	9
ECONOMICS	18.121(3) & 18.122(3) or 18.120(6)	18.262 (6) 18.2XX (3) 18.2XY (3)		18
HISTORY	12 credit hours from 11.137(3), 11.138(3), 11.238(6), 11.150(6), 11.272(6)			12
POLITICAL STUDIES	19.150(6)	19.253(6)		12
SOCIOLOGY	77.120(6)	77.369(3) or 77.347(3)		9
				60 Hours

GLOBAL POLITICAL ECONOMY
B.A. (ADVANCED) DEGREE
TABLE OF REQUIRED COURSES

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	TOTAL Credit Hours
Anthropology		76.239(6)	76.3YX(3) 76.332 (3)		12
Economics	18.121(3) & 18.122(3) or 18.120(6)	18.262(6)	18.2XX(3) 18.2XY(3)		18
History	12 credit hours from 11.137(3), 11.138(3), 11.238(6), 11.150(6), 11.272(6)				12
Political Studies	19.150(6)	19.383(6)			12
Sociology		77.120(6)	77.229(6) and 77.369(3) or 77.347(3)		15
Interdisciplinary		99.2AA(3)		99.4AA(6)	9
					78 Hours

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) and
- 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

225

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. Dronzek, Chair
Senate Committee on Curriculum and Course Changes
Terms of Reference: *Senate Handbook* (Revised 1992), pp. 70-71.
/sgp

Courses to be Introduced:

099.2AA Perspectives on Global Political Economy +3
An interdisciplinary seminar exploring issues in political economy at the global level from the perspectives of Anthropology, History, Economics, Political Studies, and Sociology. *Pre-requisite: written consent of Global Political Economy Co-ordinator.*

099.4AA Studies in Global Political Economy +6
An advanced interdisciplinary seminar that will study the effects of institutions, structures, and dynamics operating in the current global political economy. Students, working in groups, will be expected to do case studies on selected local (or regional) political economies. *Pre-requisite: 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 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."
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 COPSE 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

<i>HONOURS</i>	099.153 and	A. 36 hours of credit in Women's Studies as follows:
<i>DOUBLE</i>	099.154	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 36 hours of credit in the other honours field
		C. 6 hours in ancillary options

Total for Years II, III and IV combined: 78 hours of credit

Program Information

Major Program
(no changes)

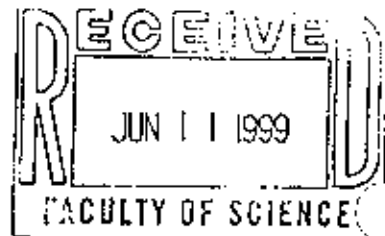
Minor Program
(no changes)

Honours Program

For entry into the Honours Program see Section 4: *Basic Faculty Regulations for the 3 Programs Leading to a B.A.*

- 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 (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)

PROPOSAL FOR B.Sc. PROGRAMS IN THE
DEPARTMENT OF PSYCHOLOGY



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: personnel selection and aptitude identification in the 40's, child development and child rearing practices in the 50's, attitude formation and attitude change in the 60's; mental health in the 70's and aging in the 80's. 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 I for a description of the research foci found in our Department).

In the 90's 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 90's as the decade of the brain. This declaration and the focussing 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, behavioural 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 centre 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. Proposed Four-Year B.Sc. Major.

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.

III. A. iv. Program of Study for the B.Sc. Major in Psychology.

In Year II (credit hours 31 to 60), students must complete 17.225¹, 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 options⁴.
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); 6 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)⁵; 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 30 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.

⁴ 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.

⁵ This difference reflects a fundamental difference in the purpose of the two types of degrees. The Faculty of Arts considers the purpose of the BA (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).

Source	BA (Gen) *	BA (Adv)	BA (Hon)	B.Sc. (Maj)	B.Sc. (Hon)
1998-9 Enrolment in Psychology Programs	450	63	86	n/a	n/a
Average Enrolment in Psychology Programs	595	94	86	n/a	n/a
Projected Enrolment Based on 17.120 Survey	n/a	50	46	44	40
Projected Enrolment Based on 200-level Survey	n/a	70	64	24	22
Projected Enrolment Based on Retrospective Analysis	n/a	80	76	14	12

* 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 mid-stream 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 fulfil 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 subspecialties; the typical activities of individuals in those subspecialties, the level of education needed to participate in the subspecialty, and recommended curricula for entry into the subspecialty.

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: P404 Duff Roblin Building Telephone: (204)474-9338

PROGRAM	YEAR I	YEAR II	YEAR III	YEAR IV
HONOURS	017.120 (B+)(or 017.121(B+) and 017.122(B+)) 6 Credit Hours Science ¹ (B)	017.230WM 6 credit hours 200 or 300 level ¹ Psychology 15 credit hours Ancillary Options ² 3 credit hours free options ³	3 credit hours from 017.363, 017.450, or 017.457 15 credit hours Psychology ⁴ 9 credit hours Ancillary Options ² 3 credit hours free options ³	017.452 18 credit hours Psychology ⁴ 6 credit hours Ancillary Options ²
	30 Hours	30 Hours	30 Hours	30 Hours
FOUR YEAR MAJOR	017.120 (C+)(or 017.121 (C+) and 017.122(C+)) 6 Credit Hours Science ¹ (C+)	017.225, 017.226M 6 credit hours 200 or 300 level Psychology ⁷ Plus 30 credit hours of courses from departments in the Faculty of Science, including a minimum of 18 credit hours at the 200 level or above. A "W" course must be taken in Year 1 or II ⁸	18 credit hours 200 or 300 level Psychology ⁷	18 credit hours 200 or 300 level Psychology ⁷

1. Introductory courses in Biology, Chemistry, Computer Science, Mathematics, Statistics or Zoology are highly recommended.
2. These 6 credit hours must include 3 credit hours from each of two different lettered categories of Psychology courses below.
3. These 15 credit hours must include 3 credit hours at the 400 level; and 3 credit hours from each of two different lettered categories of Psychology courses below not sampled in Year 2.
4. These 18 credit hours must include 6 credit hours at the 400 level; and 6 credit hours at any level including any remaining lettered category below.
5. Ancillary options are to be chosen from courses that are offered by departments in the Faculty of Science and must be approved by the Department of Psychology.
6. Free options are to be chosen from courses that are acceptable for credit in the Faculty of Science and must be approved by the Department of Psychology.
7. During Years 2 to 4 a total of 42 credit hours of 200 or 300 level Psychology courses must be completed, including a minimum of 3 credit hours from each of four of the five lettered categories of courses below.
8. 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 *General Academic Regulations and policy*.

The Faculty of Science offers programs leading to a B.Sc. (Honours) degree in Psychology and a B.Sc. (Major) degree in Psychology. Courses from the Faculty of Arts are included in this program.

Honours

To enter the Honours program, students must have obtained a grade of B+ or better in 017.120 for in both 017.121 and 017.122 and a grade of B in six credit hours in courses offered by the Faculty of Science. 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. Introductory courses in Biology, Chemistry, Computer Science, Mathematics, Statistics or Zoology are highly recommended.

To continue in the Honours program, a student must be a full-time student and must meet all of the continuation criteria of the Faculty of Science. In addition, students must maintain a minimum cumulative grade point average of 3.25 based on all courses applied to and attempted in the program, and a minimum sessional grade point average of 2.00. Students who do not meet the minimum continuation requirement will be required to withdraw from the Honours program.

The Department must approve a student's Honours program for each session. Revisions to the program must also have prior approval.

To qualify for the degree of Bachelor of Science (Honours), a student must offer 120 credit hours of courses with passing grades (D or better) in each course and with a minimum cumulative grade point average of 3.00 on the 120 credit hours that constitute the degree. In addition, the student must complete the program of study as listed in the program chart above.

Major

To enter the Major program, students must normally have obtained a grade of C+ or better in 017.120 (or in both 017.121 and 017.122) and in six credit hours in courses offered by the Faculty of Science and meet the Faculty of Science requirements for entry to the Major program as listed on page 264 in this Calendar. Introductory courses in Biology, Chemistry,

Computer Science, Mathematics, Statistics or Zoology are highly recommended.

To continue in the Major program, a student must meet all of the continuation criteria of the Faculty of Science. This includes maintaining a minimum 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 to the program. Students who do not meet the minimum continuation requirement or who fail a course will be required to withdraw from the Major program.

The Department must approve a student's Major program for each session. Revisions to the program must also have prior approval.

To qualify for the degree of Bachelor of Science (Major), a student must offer 120 credit hours of courses with passing grades (D or better) in each course and with a minimum cumulative grade point average of 2.00. In addition, the student must complete the program of study as listed in the program chart above.

Categories of Psychology Courses

Category A: Personality/Social
017.241, 017.242, 017.345, 017.346

Category B: Developmental
017.229, 017.231, 017.237

Category C: Learning
017.244, 017.247

Category D: Cognitive
017.248, 017.344, 017.358, 017.361

Category E: Biological
017.333, 017.343

November 2, 1999

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 enrolment 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.

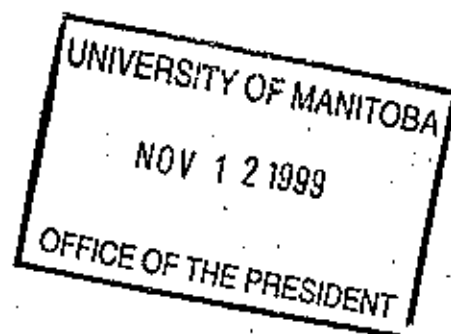
Respectfully submitted,

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. Emöke 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,

A handwritten signature in dark ink, appearing to read "LeTourneau", written over a horizontal line.

Léo LeTourneau, Ph.D.
Executive Director

c. Louise Gordon



255

THE UNIVERSITY OF MANITOBA

OFFICE OF THE PRESIDENT

208 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2

Fax: (204) 275-1160

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 this Calendar.

- 017.224 History of Psychology (3)
- 017.225 Introduction to Psychological Research (3)
- 017.226 Introduction to Research Methods in Psychology (3)
- 017.229 Child Development (3)
- 017.231 Adolescent Development (3)
- 017.232 Motivation (3)
- 017.233 Emotion (3)
- 017.237 Developmental Psychology from Adolescence to Old Age (3)
- 017.239 Psychology of Women (3)
- 017.240 Psychology of Sex Differences (3)
- 017.241 Social Psychology I (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 Ethology (3)
- 017.351 Comparative Psychology (3)
- 017.252 Orientations to 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 (3)
- 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)
- 017.356 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)

Honour Courses

All Honours courses have as prerequisite appropriate standing in an Honours Psychology program.

- 017.230 Advanced General Psychology (6)
- 017.342 Learning (6)
- 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 (6)
- 017.453 Sleep and Dream Research (3)
- 017.454 Contemporary Issues I (3)
- 017.455 Stress 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

Terms of Reference: *Senate Handbook* (Revised 1992), pp. 70-71.

/sgp

Comments of 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 Associative 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 questions 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.

Item	Science		Proposed B.Sc.		Psychology	
	B.Sc.*	B.Sc. (Hon)	B.Sc.*	B.Sc. (Hon)	BA*	BA (Hon)
Number of credit hours	120	120	120	120	120	114
Normal Entry Point After (Cr Hrs)	30	30	30	30	30	30
Full Time (24 Cr Hrs) Required?	No	Yes	No	Yes	No	No
Minimum FCE in Major Dept.**	9***	10.5***	9	10	8	9
Minimum FCE In Science	14	PD	15	16	1	1
Programme Requirements on Entry						
Introduction to Major Discipline (min GPA)	2.5	3****	2.5	3.5	2.0	3.5
Number of Failures at Time of Entry	n/a	0	n/a	0	n/a	n/a
Min GPA on first 30 Cr Hrs	2	2.4	2	3.25	2	3.25
Continuation Requirements**						
Cumulative GPA (after 54 Cr Hrs)	2	2	2	3.25	2	3.25
Sessional GPA	n/a	2	n/a	2	n/a	n/a
Number of Failures Permitted (FCE)	3	3	3	3	3	n/a
Min. Acceptable Course Load per Session (Cr Hrs)	n/a	24*****	n/a	24*****	n/a	n/a
Graduation Requirements**						
Cumulative GPA	2	2	2	3.0	2	3.0
GPA in Major Courses	n/a	2	n/a	3.0	2	3.0
Max FCE courses in Major	10	20	10	11	12	10
Min number of courses (FCE) in Minor	n/a	n/a	n/a	n/a	3	n/a
Max total courses (FCE) in Major and Minor	n/a	n/a	n/a	n/a	13	n/a
Minimum Humanities Requirement (FCE)	n/a	n/a	n/a	n/a	1	1
Minimum Social Science Requirement (FCE)	n/a	n/a	n/a	n/a	1	1
Min Breadth requirement (# of Different Disciplines)	n/a	n/a	3	5	5	5
Residency Requirement (FCE)	10	10	10	10	10	15
Max Number (FCE) non-Arts (Science) Courses	6	n/a	5	n/a	6	5.5
Min Number (FCE) non-Science Courses	1	1	1	1	n/a	n/a

PD = Program Defined; n/a = not applicable

* four-year program

** Department may set more restrictive criteria

*** based on Zoology and Computer Science

**** in all introductory courses specified by the Department

***** 6 Cr Hrs can be completed during summer session

During Years II to IV, students must select: at least three credit hours from four of the five categories² 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 options³;

² The categories are as follows:

Category A: Personality/Social - 17.241, 242, 345, 346	Category D: Cognitive - 17.248, 344, 358 361
Category B: Developmental - 17.229, 231, 237	Category F: Biological - 17.333, 343
Category C: Learning - 17.244, 247	

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.

Institution	BSc (Major)	Science Requirements (FCE)	BA (Hon)	BSc (Hon)	Science Requirements (FCE)	Dept Is In*:
UBC	Yes	5	Yes	Yes	6	A
Simon Fraser	No	n/a	Yes	No	n/a	A
Victoria	No	n/a	Yes	No	n/a	A
Alberta	Yes	12**	Yes	Yes	4	A, S
Calgary	Yes	4***	Yes	Yes	4***	SS
Lethbridge	Yes	4	Yes	Yes	4	A & S
Regina	No	n/a	Yes	No	n/a	A
Saskatchewan	No	n/a	Yes	No	n/a	A & S
Brandon	Yes	1	Yes***	Yes***	1	A & S
MANITOBA	NO	N/A	YES	NO	N/A	A
Winnipeg	No	n/a	Yes	No	n/a	A & S
Carleton	No	n/a	Yes	Yes	7	A & SS
McMaster	No	n/a	Yes	Yes	4	A & S
Queen's	No	n/a	Yes	Yes	3	A & S
Toronto	Yes	none	No	Yes****	none	A & S
Waterloo	No	n/a	Yes	Yes	8	A
Western	No	n/a	Yes	Yes	3	SS
McGill	Yes	6	Yes	Yes	3	A & S
Dalhousie	Yes	0.5	Yes	Yes	0.5	A & S
Memorial	Yes	4.5	Yes	Yes	4.5	S

n/a = not applicable.

*A = Arts; S = Science; SS = Social Sciences

**6 of these in Psych courses

***After first year

****Specialist rather than Honours

III. 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 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 emphasize 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. graduand.

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 graduands, 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.



University of Manitoba
Office of the University Secretary

311 Administration Building
Winnipeg, Manitoba
R3T 2N2

Senate
Senate Chamber
Room 245 Engineering Building
WEDNESDAY, 1 December 1999
1:30 p.m.

ADDENDUM TO AGENDA

III MATTERS FORWARDED FOR INFORMATION

3. Program Accreditation: 1999 Annual Update

/sgp





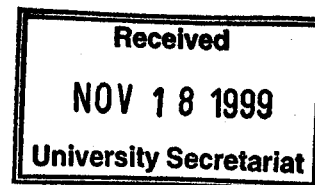
THE UNIVERSITY OF MANITOBA

OFFICE OF THE PRESIDENT

208 Administration Building
Winnipeg, Manitoba
Canada R3T 2N2

Fax: (204) 275-1160

November 17, 1999



To: Ms. Beverly Sawicki, University Secretary
From: Richard A. Lobdell, Vice-Provost (Programs) *RL*
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



Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
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AGRICULTURE

Biosystems Eng.	U of M	Canadian Engineering Accreditation Board, Canadian Council of Professional Engineers	2001	Full	Canada: reciprocal agreement with U.S.A.	Professional body	Visit Fall/00		
Food Science	U of M	Canadian Institute of Food Science and Technology, Ottawa	open ended	Full	Canada	Voluntary Association: Incorporated under Federal Legislation	See note (1) below		
Food Science	U of M	International Food Technologists (USA)	2001	Full (5 years)	Canada and U.S.A.	Professional Body	TBA		

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 -Agronomy -Animal Systems -Plant Systems	U of M	Agricultural Institute of Canada	TBA	Charter Accredited 1998	Canada	Professional Body	TBA		
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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

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
<u>ARCHITECTURE</u>									
M. Arch.** Program (Dept. of Architecture)	U of M	Canadian Arch. Certification Board (CACB), 330-55 Murray St. Ottawa, ON K1N 5M3	2004	5 years (full)	National Reciprocity with NAAB (USA)	Mandatory Professional Association	Spring 2004	\$500 annual mtce on-site costs of visiting team \$12,000	U of M
City Planning	U of M	Cdn. Institute of Planners (CIP) 541 Sussex Dr. 2 nd Fl. Ottawa, Ont.	Apr. 2001	Full	National, Provincial & International	Mandatory Professional Association	2000 (Oct.19-22)	\$100 annual fee & site costs of approx. \$4000 for visiting team every 5 years	U of M
Landscape Architecture	U of M	Cdn. Society of Landscape Arch., Box 3304, Stn. C Ottawa, Ont.	1999	Full	National, &International	Mandatory National Membership through Licensing Registration	March 2000	\$1000 every year, plus site visit costs	U of M
Interior Design	U of M	Fdn. for Interior Design Education Research	2001	Full	International	Foundation recognized by U.S. Dept. Education	2001	\$800 -900 U.S. yearly plus on site costs of Visiting Team *\$3,000 U.S.	U of M
* paid only during accreditation visit year									
<u>ARTS</u>									
Clinical Psychology	U of M	American Psychological Assoc., 750 First St. N.E. Washington, D.C. 20002-4242	2001	Full	International	Professional	Spring 2002	\$1,500 Cdn. (1997-98) annual plus \$3,528.25 site visit fee and expenses	U of M

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
		Canadian Psychological Assoc., Chemin Vincent Rd. Old Chelsea, Quebec J0X 2N0	2001	Full	National	Professional	Spring 2002	1997-98 \$1,298.27 annual plus visit fee & expenses	U of M
<u>DENTISTRY</u>									
Undergraduate Dentistry	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr. Ottawa, Ontario	2000	Full	National	Federal Legislation	2001	*	U of M
Periodontology	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr.	2000	Full	National	Federal Legislation	2001	*	U of M
Orthodontics	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr.	2000	Full	National	Federal Legislation	2001	*	U of M
Oral Surgery	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr. Ottawa, Ontario	2000	Full	National	Federal Legislation	2001	*	U of M
Dental Internship Program	H.Sc.	Canadian Dental Assoc. 1815 Alta Vista Dr. Ottawa, Ontario	2002	Full	National	Federal Legislation	2002	n/a	H.Sc.
School of Dental Hygiene	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr. Ottawa, Ontario	2000	Full	National	Federal Legislation	2001	*	U of M
Graduate Programs Prosthodontics	U of M	Canadian Dental Assoc. 1815 Alta Vista Dr. Ottawa, Ontario	1986	Not currently offered	National				

* 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

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
<u>ENGINEERING</u>									
Civil Eng.	U of M	Canadian Engineering Accreditation Board Cdn. Council of Prof. Engineers, 401-116 Albert St., Ottawa, Ont.	June 30, 2001	6 years	National	Professional	Fall 2000		
Elect. Eng.	U of M	"	June 30, 2001	6 yrs.	National	Professional	Fall 2000		
Mech. Eng.	U of M	"	June 30, 2001	6 yrs.	National	Professional	Fall 2000		
Biosystems Eng.	U of M	"	June 30, 2001	6 yrs.	National	Professional	Fall 2000		
Computer Eng.	U of M	"	June 30, 2001	6 yrs.	National	Professional	Fall 2000		
Indust. Eng.	U of M	"	June 30, 2001	6 yrs.	National	Professional	Fall 2000		
<u>HUMAN ECOLOGY</u>									
Foods & Nutrition	U of M	Dietitians of Canada. 601 - 480 University Ave. Toronto, Ont. M5G 1V2			National	Professional* Association (national)		\$650 (listing fee)	Dept. of Foods & Nutrition
	a) General Dietetics	Program	1999	Full			Winter 2001 (visit) January to April period		
Family Studies - Child Studies Concentration	U of M	Child Care Education Program Approval Committee (CCEPAC), Manitoba Education Training 185 Carlton St., 4th Floor Winnipeg, MB R3C 3J1	Oct. 1998**	Full	Provincial	Provincial Government	January 2000	No cost	

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
B.H. Ecol. - all program	U of M	Manitoba Association of Home Economists Box 582 Winnipeg, MB R3C 2J3	no end date (started Mar./90)	Full	Provincial : (Chapter H70 Professional Home Economists Act)	Professional Association (provincial)	B.H. Ecol . graduates admitted after successful completion of 1 yr. as interim professional home economist	No cost	

* 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
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<u>MANAGEMENT</u>	U of M	American Assembly* of Collegiate Schools of Business	2009	full	International	Professional		\$9,000 U.S.	U of M
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2009

*Voluntarily requested.

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
MEDICINE									
<u>Undergraduate Curriculum</u>	U of M	Liaison Comm. on Medical Education, AMA/AAMC, 535 N. Dearborn St., Chicago, Ill. One Dupont Circle, Washington, D.C. and AAMC, 151 Slater, Ottawa, Ont.	2003-4	Full	International	Voluntary	2003-4		Accred. Agency
<u>Family Practice Residency Program</u>	U of M & Teaching Hospitals	College of Family Physicians of Canada, 4000 Leslie St. Willowdale, Ont.	2000	Full	National	Voluntary	2002		Accred. Agency
<u>Postgraduate Programs</u>	U of M & Teaching Hospitals	Royal College of Physicians & Surgeons of Canada, 74 Stanley St., Ottawa, Ont.	2002		National	Federal Charter	2002		Accred. Agency
Anesthesia				Full					
Clin. Immunology & Allergy (Adult)				Full					
(Pediatric)				Full					
Community				Full					
Geriatric				Full					
Hematology (Adult)				Full					
(Pediatric)				Inactive					
Infectious Diseases (Adult)				Full					
(Pediatric)				Full					
Internal Medicine				Full					
Neurology (Adult)				Full					
(Pediatric)				Inactive					
Nuclear Medicine				Full					
Physical Med. & Rehabilitation				Full					
Psychiatry				Full					

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
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Pediatrics				Full					
Respiratory - Adult				Full					
Anatomical Pathology				Full					
General Pathology				Full					
Medical Microbiology				Full					
Medical Oncology				Full					
Neonatal - Perinatal Med.				Full					
General Surgery				Provisional					
Obstetrics & Gynecology				Full					
Orthopaedic Surgery				Full					
Plastic Surgery				Full					
Urology				Full					
Radiation Oncology				Full					
Cardiothoracic Surgery				New Approval					
Neurosurgery				Provisional					
Vascular Surgery				Full					
Diagnostic Radiology				Full					
Adult Cardiology				Full					
Pediatric Cardiology				Inactive					
Rheumatology				Full					
Nephrology - Adult				Provisional					
Endocrinology & Metabolism (Adult)				Full/Reactivated					
Otolaryngology				Full					
Gynecologic Oncology				Full					
Maternal Fetal				Full					
Critical Care				Full					
Medical Genetics				Full					
Emergency Medicine				Full					
Gastroenterology				Full					

School of Medical Rehabilitation

Division of Occupational Therapy	U of M	Canadian Assoc. of Occupational Therapy 110 Eglinton Ave. W. 3 rd floor, Toronto, ON M4R 1A3	2000	5 year	National	Voluntary	Feb. 2000		U of M
								Year of site visit	

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
Division of Physical Therapy	U of M	Canadian Physiotherapy Assoc., 44 Eglinton Ave. W. Toronto, Ont. M4R 1A1 American Physiotherapy Assoc.	2000	Full	International	Voluntary	2000	\$3,850	U of M
Fellowships in Clinical Genetics, Medical Genetics, Cytogenetics Molecular Genetics	Medical College, U of M & Health Sciences Centre	Canadian College of Medical Geneticists	2000	Full	National	Voluntary	2000	\$1,500	U of M/ H.S.C.
Predoctoral Internship Training Program in Clinical Psychology	U of M and Teaching Hospitals	Canadian Psychological Assoc./American Psychological Assoc.	1997/98	Full	National	Voluntary	March 1999*	\$2,444/yr. \$2,472 in year of site visit	U of M/ H.S.C.

* Final Accreditation Report from CPA and APA on June 1999 site visit is expected in January 2000.

NURSING

U of M plus clinical facilities	Canadian Association of University Schools of Nursing	April, 2003	Full	National	Professional Association	2003	5000 + 3258.06 Travel & Accommodation = Total 8,258.06	U of M
U of M plus clinical facilities	Manitoba Association of Registered Nurses	December, 2000	Full	Provincial	Professional Association	2000	N/A	

As of November 1999

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
<u>PHARMACY</u>									
Bachelor of Pharmacy degree programs	All Pharmacy faculties in Canada	Canadian Council for Accreditation of Pharmacy Programs	2002	Full	Canada	Professional	Fall 2002	\$5,000/yr.	Faculty
<u>SCIENCE</u>									
Computer Sci. Co-op Major	U of M	(note 1)							
Chemistry - Honours & 4-yr. Major (note 2)	U of M	Canadian Society for Chemistry	Until June 2002	Full	National	Professional Association	Spring 2002	c. \$2000	
Geological Sci. - Geo. Hnrs. & Geophysics Hnrs. Post-Graduate in both of the above (note 3)	U of M	Associations of Professional Engineers and Geoscientists	Until further review or action is taken	Full	As stated in note 4	National and Provincial (note 4)	Unspecified	Nil cost to U of M	

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.
4. Review Body is the APEGM: Association of Professional Engineers and Geoscientists of Manitoba. Legislation passed June 1998. Registration starts in 1999. The Canadian Council of Professional Geoscientists (CCPG) has now issued a statement on the "Recommended Minimum Requirements of Geoscience Knowledge and Work Experience for Professional Practice". More information in June 1999.

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
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SOCIAL WORK

Bachelor of Social Work	U of M plus Field Instruction Centres*	Canadian Association of Schools of Social Work	1992	Full	National	Voluntary	Jan. 1/2000	\$3000 fee plus expenses of 3-person team for on-site visit	U of M
Master of Social Work	U of M plus Field Instruction Centres*	Canadian Association of Schools of Social Work	1992	Full	National	Voluntary	Jan. 1/2000	\$3000 fee plus expenses of 3-person team for on-site visit	U of M

* Field Instruction Centres include the Winnipeg Education Centre and the School of Social Work at Thompson.

STUDENT AFFAIRS

Counselling Service	U of M	International Assoc. of Counselling Services, 5999 Stevenson Ave., Ste. 307, Alexandria, VA 22304	Sept.30,1999	Full	International	Voluntary	2000	\$550 U.S.	U of M
	U of M	**American Psychological Association 750 First St., N.E. Washington, DC 20002-4242	Aug. 31,2000	Full	International	Voluntary	2000	\$1000U.S.	U of M

** (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
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Our IACS accreditation is extended for another year, until Sept. 30/2000.

Programs Accredited or Eligible for Accreditation	Locales included in Accreditation	Accrediting Agencies	Date to which Program is Accredited	Status of Accreditation (Full or Provisional)	Jurisdiction of Accrediting Agency	Status of Accrediting Agency	Anticipated Date of Next Accreditation	Costs of Accreditation	Agency Paying
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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*	CATA (Canadian Athletic Therapists Assoc.)	to be announced just submitted	provisional upon Acceptance +/-or Approval	National	Professional	contingent upon Approval & would Correspond to School year	\$200 application fee (1 time) \$250 per year after approval for Annual program fee \$2000 site visit (1 time)	Phys. Ed. & Rec. Studies (U of M)
Physical Education/Kinesiology	1999 - accreditation pilot Likely in place by Fall 2000							

*preparing package for application