

Senate  
Senate Chamber  
Room E3-262 Engineering Building  
WEDNESDAY, December 7, 2011  
1:30 p.m.  
Regrets call 474-6892

## **AGENDA**

### **I MATTERS TO BE CONSIDERED IN CLOSED SESSION**

#### **1. Report of the Senate Committee on Honorary Degrees**

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

### **II MATTERS RECOMMENDED FOR CONCURRENCE WITHOUT DEBATE**

- |  |         |
|--|---------|
| <b>1. <u>Proposed Academic Schedule for 2012-2013</u></b>  | Page 3  |
| <b>2. <u>Report of the Senate Committee on Curriculum and Course Changes on Course and Program Changes</u></b> | Page 7  |
| <b>3. <u>Report of the Senate Committee on Curriculum and Course Changes on Deletion of Lapsed Courses</u></b> | Page 90 |

### **III MATTERS FORWARDED FOR INFORMATION**

- |   |          |
|---|----------|
| <b>1. <u>Report of the Senate Committee on Awards [October 24, 2011]</u></b>  | Page 94  |
| <b>2. <u>Report of the Senate Committee on Admissions Concerning a Proposal from the Clayton H. Riddell Faculty of Environment, Earth, and Resources for Direct Entry to that Faculty's Undergraduate Programs [October 21, 2011]</u></b> | Page 104 |
| <b>3. <u>International College of Manitoba Annual Report</u></b>  | Page 105 |
| <b>4. <u>In Memoriam: Dr. Alexander (Sandy) Gordon</u></b>  | Page 111 |
| <b>5. <u>In Memoriam: Dr. Denis O. Krause</u></b>   | Page 112 |
| <b>6. <u>Items approved by the Board of Governors [November 15, 2011]</u></b>   | Page 114 |

<b>IV <u>REPORT OF THE PRESIDENT</u></b>	Page 115
--	----------

**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 NOVEMBER 2, 2011**

**VII     BUSINESS ARISING FROM THE MINUTES**

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

- |    |   |          |
|----|---|----------|
| 1. | <u>Report of the Senate Executive Committee</u>                   | Page 140 |
| 2. | <u>Report of the Senate<br/>Planning and Priorities Committee</u> |          |

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

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

- |    |   |          |
|----|---|----------|
| 1. | <u>Report of the Joint Senates Committee on Joint Master's<br/>Programs Between the University of Winnipeg and<br/>Manitoba [June 3, 2011]</u>  | Page 141 |
| 2. | <u>Report of the Senate Committee on Admissions Concerning a<br/>Proposal from the Faculty of Agricultural and Food Sciences to<br/>Change Admission Requirements for its Agriculture Diploma<br/>Program [October 21, 2011]</u>    | Page 143 |
| 3. | <u>Report of the Senate Committee on Admissions Concerning a<br/>Proposal from the Faculty of Dentistry to Eliminate the<br/>Transfer Applicant Category from the Faculty of Dentistry<br/>Admission Process [October 21, 2011]</u> | Page 144 |

**X       ADDITIONAL BUSINESS**

**XI      ADJOURNMENT**

*Please call regrets to 474-6892 or send to shannon\_coyston@umanitoba.ca.*

# 2012-2013 Academic Schedule

Note: Admission Application Deadlines may be found on the web at [www.umanitoba.ca/student/admissions](http://www.umanitoba.ca/student/admissions)

## Chapter Contents

Section 1: Orientation Sessions for Fall/Winter Session
Section 2: Start and End Dates for Fall/Winter Session
Section 3: Registration and Withdrawal Dates
Section 4: Fee Deadlines
Section 5: Dates of University Closure and Mid Term Break
Section 6: Fall/Winter Session Examination and Test Dates
Section 7: Challenge for Credit, Supplemental and Other Special Examinations and Tests
Section 8: Grade Appeal Dates
Section 9: University Convocation
Section 10: Other University Special Events
Section 11: Distance & Online Education 2011/12 Deadline Dates
Section 12: Summer Session 2012 Start and End Dates
Section 13: Summer Session 2013
Section 14: Graduate Studies

## Section 1: Orientation Sessions for Fall/Winter Session

IDDP Year 1	May-June 2012
University 1	Sept. 4-5, 2012
Agriculture Diploma	Sept. 12, 2012
Faculty of Agriculture & Food Sciences Year 1 orientation	Sept. 5, 2012
School of Art Orientation	Sept. 4-5, 2012
Asper School of Business, Year 1 student welcome luncheon	Sept. 4, 2012
Asper School of Business, Year 1 CSA orientation and Barbeque	Sept. 5, 2012
Education, Year 1	Sept. 5, 2012
Education, Year 2 and Year 5 Integrated	Aug. 30, 2012
Medicine Inaugural Exercises	Aug. 22, 2012
Music	Sept. 4, 2012
Nursing, Year 2 (2180)	
Tuesday/Wednesday clinical orientation	Sept. 4, 2012
Nursing, Year 2 (2190)	
Tuesday/Wednesday clinical orientation	Sept. 4, 2012
Nursing, Year 2 (2180)	
Thursday/Friday clinical orientation	Sept. 5, 2012
Nursing, Year 2 (2190)	
Thursday/Friday clinical orientation	Sept. 5, 2012
Nursing, Year 2 (2180 continues)	
Tuesday/Wednesday clinical orientation continues	Sept. 11, 2012
Nursing, Year 2 (2180 continues)	
Thursday/Friday clinical orientation continues	Sept. 6, 2012
Nursing, Year 2 (2190 continues)	
Both rotations clinical orientation continues	Sept. 6, 2012
Nursing, Year 2 (2180 and/or 2190)	
Tuesday/Wednesday clinical begins	Sept. 11, 2012
Nursing, Year 2 (2180 and/or 2190)	
Thursday/Friday clinical begins	Sept. 6, 2012
Nursing, Year 3 clinical orientation	
Tuesday/Wednesday clinical rotation begins	Sept. 25, 2012
Nursing, Year 3 clinical orientation	
Thursday/Friday clinical rotation begins	Sept. 27, 2012
Nursing, Year 4 4270 clinical orientation	Sept. 6, 2012

Nursing Lectures in NURS 2120 (Health Assessment) and Nursing labs in NURS 2120 (Health Assessment) and NURS 2130 (Skills Year2), NURS 3280 (Skills Year 3) start week of Sept. 10, 2012

**NOTE:** Immunizations/CPR due for all newly admitted Aug. 1, 2012  
Nursing students. Criminal Record Check/Child Abuse Registry/Immunizations/CPR due for all newly admitted Nursing students.

Occupational Therapy, Year 1 orientation session	Aug. 23 - 24, 2012
Pharmacy, Year 1 orientation session	Sept. 5, 2012
Social Work, Year 1	Sept. 5, 2012
Social Work, Year 2 and 3 Field Orientation	Sept. 4 and 5, 2012

## Section 2: Start and End Dates for Fall/Winter Session

(Classes, practica, experiences)

The following start and end dates are for students in **most** faculties and schools.

See Section 5 for mid term break and other university closures.

Students registering for **Distance and Online Education** courses should consult the web site [www.umanitoba.ca/distance](http://www.umanitoba.ca/distance) for further information.

**Education courses may have unique start and end dates. Students are referred to the Aurora Student Class Schedule.**

Fall Term 2012 (including spanned courses)	Start	End
Most faculties and schools	Sept. 6, 2012	Dec. 5, 2012
Agriculture diploma	Sept. 17, 2012	Nov. 30, 2012
Dentistry, Years 1 and 2	Aug. 13, 2012	Nov. 30, 2012
Dentistry, Year 3	Aug. 7, 2012	Nov. 30, 2012
Clinics	T.B.A.	Dec. 7, 2012
Dentistry, Year 4	Aug. 7, 2012	Dec. 7, 2012
Clinics	T.B.A.	Dec. 14, 2012
Dental Hygiene, Year 1	Aug. 20, 2012	Nov. 30, 2012
Dental Hygiene, Year 2	Aug. 13, 2012	Nov. 30, 2012
Clinics	T.B.A.	Dec. 7, 2012
Law	Sept. 4, 2012	Dec. 4, 2012
Medicine, Years 1	Aug. 21, 2012	Dec. 18, 2012
Medicine, Years 2	Aug. 27, 2012	Dec. 18, 2012
Medicine, Years 3	Aug. 27, 2012	Dec. 18, 2012
Medicine, Years 4	Aug. 27, 2012	Dec. 21, 2012
Occupational Therapy Year 1	Aug. 27, 2012	Nov. 16, 2012
Basic Fieldwork	Nov. 19, 2012	Dec. 14, 2012
Occupational Therapy Year 2	Aug. 27, 2012	Dec. 14, 2012
Pharmacy, Year 4 (classes)	Sept. 4, 2012	Oct. 29, 2012
(SPEP 4 - Block 1)	Nov. 5, 2012	Dec. 14, 2012
(Electives - Block 1)	Nov. 5, 2012	Dec. 21, 2012
Physical Therapy, Year 1	Aug. 20, 2012	Dec. 14, 2012
Physical Therapy, Year 3	Aug. 27, 2012	Dec. 14, 2012
Respiratory Therapy, Years 1 and 2	Aug. 27, 2012	Dec. 14, 2012
Respiratory Therapy, Year 3	Aug. 20, 2012	Dec. 14, 2012
Social Work, Field Instruction Years 2 & 3	Sept. 4, 2012	Dec. 7, 2012

Winter Term 2013 (including spanned courses)	Start	End
Most faculties and schools	Jan. 7, 2013	April 10, 2013
Agriculture Diploma	Jan. 7, 2013	Mar. 28, 2013
Dental Hygiene, Years 1 and 2 classes	Jan. 7, 2013	April 5, 2013
Year 1 clinic	Jan. 7, 2013	April 5, 2013
Year 2 clinic	Jan. 7, 2013	April 19, 2013
Dentistry, Years 1 and 2	Jan. 7, 2013	April 19, 2013
Dentistry, Year 3 classes	Jan. 7, 2013	April 12, 2013
Year 3 clinics	Jan. 7, 2013	April 19, 2013
Dentistry, Year 4 classes	Jan. 7, 2013	Feb. 8, 2013
Year 4 clinics	Jan. 7, 2013	April 19, 2013
Law	Jan. 7, 2013	April 12, 2013
Medicine, Years 1 and 2	Jan. 3, 2013	May 24, 2013
Medicine, Year 3	Jan. 3, 2013	Aug. 23, 2013

Medicine, Year 4	Jan. 3, 2013	May 16, 2013
Occupational Therapy Year 1	Jan. 7, 2013	May 3, 2013
Occupational Therapy Year 2		
Intermediate Fieldwork 2	Jan. 7, 2013	Mar. 1, 2013
Occupational Therapy Year 2	Mar. 11, 2013	June 28, 2013
Pharmacy, Year 3 (classes)	Jan. 3, 2013	Mar. 22, 2013
Pharmacy, Year 2, SPEP 2	May 6, 2013	May 17, 2013
Pharmacy, Year 3 SPEP 3	April 8, 2013	May 3, 2013
Pharmacy, Year 4,		
(SPEP 4 - Block 2)	Jan. 7, 2013	Feb. 15, 2013
(Electives - Block 2)	Jan. 7, 2013	Feb. 22, 2013
(SPEP 4 - Block 3)	Feb. 25, 2013	Apr. 12, 2013
(Electives - Block 3)	Feb. 18, 2013	April 5, 2013
Physical Therapy	Jan. 3, 2013	variable; depends on clinical placements
Respiratory Therapy Years 1 and 2	Jan. 7, 2013	April 26, 2013
Respiratory Therapy Year 3 Clinical	Jan. 7, 2013	June 28, 2013
Social Work Years 2 and 3 field instruction	Jan. 7, 2013	April 19, 2013

## Section 3: Registration and Withdrawal Dates

**NOTE:** 1. The refund schedule will be published on the Registrar's Office web site in July 2012.

2. Some courses have irregular Voluntary Withdrawal deadline dates. Please refer to your faculty or school section of the Calendar or the Aurora Student Class Schedule.

Fall Term 2012 (including spanned courses)	Start	End
Nursing Clinical Courses: last date to register for Fall Term 2012 and Winter Term 2013	Aug. 15, 2012	
Last Date to register and pay fees without (penalty for all programs (except Agriculture Diploma)	Sept. 5, 2012	
Agriculture Diploma	Sept. 14, 2012	
Law: Registration Revision only until Sept. 14, 2012	Sept. 4, 2012	
Registration revisions and late registration in all programs (except Agriculture Diploma and irregularly scheduled courses). A financial penalty is assessed on all late registrations during this period	Sept. 6, 2012	Sept. 19, 2012
Agriculture Diploma	Sept. 17, 2012	Sept. 26, 2012
Last date in all programs (except Agriculture Diploma and irregularly scheduled courses) to withdraw from Fall Term 2012 and full courses and not be assessed a "VW"		Sept. 19, 2012
Agriculture Diploma		Sept. 26, 2012
Last date for Voluntary Withdrawal from Fall Term 2012 courses without academic penalty in all faculties and schools. (see refund schedule, published on the Registrar's Office web site in July 2012, for financial implications) (For a refund schedule, please check the Registrar's Office website after July 1, 2012.)		Nov. 14, 2012
<b>Winter Term 2013</b>		
Registration and Revision period in Winter Term 2013 half courses in all programs (except irregularly scheduled courses)	Jan. 7, 2013	Jan. 18, 2013
Last date for registration in Winter Term 2013 half courses, including Challenge for Credit, and/or registration revisions in all programs (except irregularly scheduled courses)		Jan. 18, 2013
Law: Registration Revision only until Jan. 16, 2013		Jan. 16, 2013
Winter Term 2013 half courses dropped after this date from any program (except irregularly scheduled courses) are recorded as Voluntary Withdrawals		Jan. 18, 2013
Last date for Voluntary Withdrawal from Winter Term 2013 half courses and full courses without academic penalty in all faculties and schools (except Agriculture Diploma). (see refund schedule, published on the Registrar's Office web site in July 2012, for financial implications) (For a refund schedule, please check the Registrar's Office website after July 1, 2012.)		Mar. 20, 2013
Agriculture Diploma		Mar. 12, 2013

## Section 4: Fee Deadlines

Last date for all students to pay Fall Term 2012 and 1<sup>st</sup> instalment fees without late fee (except Agriculture Diploma) Sept. 5, 2012  
Agriculture Diploma Sept. 14, 2012  
Last date for all students to pay Winter Term 2013 and 2<sup>nd</sup> instalment fees without late fee Jan. 7, 2013

## Section 5: Dates of University Closure and Mid Term Break

When the University is closed no classes/ examinations will be held.	Start	End
Canada Day (Holiday Observed)	July 2, 2012	
Civic Holiday	Aug. 6, 2012	
Labour Day	Sept. 3, 2012	
Thanksgiving Day	Oct. 8, 2012	
Remembrance Day (Holiday Observed)	Nov. 12, 2012	
December Holidays	Dec. 22, 2012	Jan. 2, 2013
Mid-Term Break* for all faculties and schools (except Medicine, Dentistry, Education, Occupational Therapy and Respiratory Therapy Yr. 3)	Feb. 18, 2013	Feb. 22, 2013
Louis Riel Day	Feb. 18, 2013	
Dentistry break	Feb. 25, 2013	Mar. 1, 2013
Occupational Therapy break	Mar. 4, 2013	Mar. 8, 2013
Medicine Years 1 and 2 break	Mar. 18, 2013	Mar. 22, 2013
Good Friday	Mar. 29, 2013	
Physical Therapy, Year 1 break	Apr. 1, 2013	Apr. 5, 2013
Victoria Day	May 20, 2013	

\*The academic and administrative offices will be open during this period, but there will be no classes/examinations held for students

## Section 6: Fall/Winter Session Examination and Test Dates

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

### Fall/Winter Session 2012-2013

Fall Term 2012 (including spanned courses)	Start	End
Most faculties and schools	Dec. 7, 2012	Dec. 19, 2012
Agriculture Diploma*	Dec. 3, 2012	Dec. 10, 2012
Dentistry, Years 1, 2, and 3	Dec. 3, 2012	Dec. 14, 2012
Dentistry, Year 4	Dec. 10, 2013	Dec. 14, 2012
Dental Hygiene Year 1	Dec. 3, 2012	Dec. 14, 2012
Dental Hygiene Year 2	Dec. 10, 2012	Dec. 14, 2012
Law	Dec. 5, 2012	Dec. 19, 2012
Pharmacy, Year 4	Oct. 30, 2012	Oct. 31, 2012

### Winter Term 2013 (including spanned courses)

Most faculties and schools	April 12, 2013	April 26, 2013
Agriculture Diploma	April 1, 2013	April 8, 2013
Dental Hygiene, Years 1 and 2	April 8, 2013	April 12, 2013
Dentistry, Years 1, 2 and 3	April 22, 2013	May 3, 2013
Year 4	Feb. 11, 2013	Feb. 15, 2013
Law	April 15, 2013	April 29, 2013
Pharmacy, Year 3	Mar. 28, 2013	April 4, 2013
Respiratory Therapy		
Clinical Entrance Exams Year 2	April 26, 2013	
Composite Exams Year 3	June 26, 2013	



## Section 7: Challenge for Credit, Supplemental and Other Special Examinations and Tests

Faculties and schools that extend supplemental examination privileges: last date for applications for autumn supplemental examinations	July 2, 2012
Language reading tests for graduate students	Sept. 1, 2012
Last date to apply for Challenge for Credit for courses offered in Fall Term 2012	Sept. 19, 2012
International Dental Degree Program on-site assessment	TBA
Last date to apply for Challenge for Credit for courses offered in Winter Term 2013	Jan. 18, 2013
Agriculture Diploma Last date for applications for Fall Term 2012 supplemental examinations	Jan. 7, 2013
Fall term supplementary examinations	Jan. 9, 2013
Language reading tests for graduate students	Mar. 30, 2013
Agriculture Diploma Last date for applications for Winter Term 2013 (supplemental examinations - graduating students)	April 16, 2013
Winter Term supplementary examinations- graduating students	April 19, 2013
Last date for applications for Winter Term 2013 (supplemental examinations - non-graduating students)	May 28, 2013
Winter Term supplementary examinations- non-graduating students	June 3, 2013
Last day to register for Challenge for Credit for examinations in June series	April 26, 2013
Medical Council of Canada examinations	April 29 - May 7, 2013

## Section 8: Final Grade Appeal Dates

Appeal period for final grades received for Fall Term 2012 courses	Jan. 7, 2013	Jan. 25, 2013
Appeal period for final grades received for Winter Term 2013 courses and full courses	May 21, 2013	June 10, 2013

## Section 9: University Convocation

Fall Convocation	Oct. 17 - 18, 2012
Last date to apply online to graduate in October	July 26, 2012
Last date to apply online to graduate in February	Sept. 19, 2012
Last date to apply online to graduate in May	Jan. 18, 2013
Graduation date for students graduating in February 2013 (Ceremony for February grads is in May 2013)	Feb. 1, 2013
School of Agriculture graduation ceremony	April 26, 2013
Faculty of Medicine Convocation ceremony	May 16, 2013
Spring Convocation	May 28 - May 30, 2013
Convocation ceremony at Collège universitaire de Saint-Boniface	June 3, 2013

## Section 10: Other University Special Events

Parents Orientation	June 2, 2012
2012 School Counsellors Admissions Seminar	Sept. 2012
Enrolment Services/Student Recruitment: Evening of Excellence	Oct. 2012
Memorial events for 14 women murdered at l'Ecole Polytechnique in 1989	Dec. 6, 2012
Information Days for high school students	Feb. 20-21, 2013
Annual traditional graduation Powwow in honour of Aboriginal students	May 4, 2013

## Section 11: Distance and Online Education 2012/2013 Deadline Dates

Start and End Dates	Start	End
Fall term 2012 (including spanned courses)	Refer to Section 2 for start & end dates	
Winter Term 2013	Refer to Section 2 for start & end dates	
Winter/Summer Term 2013	Jan. 7, 2013	July 5, 2013
Summer Term 2013	May 6, 2013	Aug. 2, 2013

Registration and Withdrawal Dates		
Fall Term 2012 (including spanned courses)	Refer to Section 3 for registration & withdrawal dates	
Winter Term 2013	Refer to Section 3 for registration & withdrawal dates	

Winter/Summer Term 2013	Start	End
Registration and Revision period	Jan. 7, 2013	Jan. 18, 2013
Last date for Voluntary Withdrawal		June 7, 2013
Summer Term 2013		
Registration and Revision period	May 6, 2013	May 17, 2013
Last date for Voluntary Withdrawal		July 12, 2013
Application to write examinations at a location other than the University of Manitoba		
Fall term 2012	First working day of October	
Fall/Winter and Winter term 2013	First working day of February	
Winter/Summer term 2013	First working day of May	
Summer term 2013	First working day of June	
Examination and Test Dates		
Fall Term 2012	Refer to Section 6 for examination and test dates	
Winter Term 2013	Refer to Section 6 for examination and test dates	
Winter/Summer term 2013	July 8, 9 & 10, 2013	
Summer Term 2013	Aug. 6 - 9 & 12, 2013	

## Section 12: Summer Session 2012

### Start and End Dates

For more detailed information, please consult the Summer Session Calendar available from the Summer Session Office, 166 Extended Education Complex. The Summer Session Calendar is available on-line at [umanitoba.ca/summer](http://umanitoba.ca/summer).

May Day, June Day, May-June Day	Start	End
Classes	April 30, 2012	June 19, 2012
Examinations		
May Day	May 25, 2012	May 26, 2012
June Day & May-June Day	June 21, 2012	June 22, 2012
May-June Eve, June-Aug. Eve, May-Aug. Eve		
Classes	April 30, 2012	Aug. 8, 2012
Examinations		
May-June Eve	June 15, 2012	June 16, 2012
June-Aug Eve & May-Aug Eve	Aug. 9, 2012	Aug. 10, 2012
July Day, Aug. Day, July-Aug. Day		
Classes	June 25, 2012	Aug. 15, 2012
Examinations		
July Day	July 20, 2012	July 21, 2012
Aug. Day & July-Aug. Day	Aug. 17, 2012	Aug. 18, 2012
Other		
Medicine, B.Sc.	May 28, 2012	Aug. 24, 2012
Nursing Summer Term	April 23, 2012	July 25, 2012
Occupational Therapy Year 1 Summer Term Intermediate Fieldwork 1	May 7, 2012	June 29, 2012
Occupational Therapy Year 2 Summer Term Advanced Fieldwork	July 3, 2012 (flexible start date)	must end by Sept. 14, 2012
Physical Therapy Summer Term	variable; depends on clinical placements	

## Section 13: Summer Session 2013

Class Start Dates		
Nursing summer term begins	April 22, 2013	
Summer Session Start Date	May 6, 2013	
Medicine B.Sc.	May 27, 2013 - Aug. 23, 2013	
Occupational Therapy Year 1 Summer Term Intermediate Fieldwork 1	May 6, 2013 - June 28, 2013	
Occupational Therapy Year 2 Summer Term Advanced Fieldwork	July 2, 2013 - must end by flex. start date Sept. 13, 2013	
Physical Therapy Summer Term	variable; depends on clinical placements	

The other summer session dates are not available yet.

## Section 14: Faculty of Graduate Studies Submission Dates for 2012-2013

For reports on theses/practica (and the corrected copies of the theses/practica), comprehensive examinations and M.Eng. projects to be submitted to Graduate Studies by students expecting to graduate in October Aug. 23, 2012

For receipt, in Graduate Studies Office, of Ph.D. theses (for distribution) from graduate students expecting to graduate in February Oct. 2, 2012

For distribution of Master's theses/practica (to examining committee) by students expecting to graduate in February Oct. 15, 2012

For reports on theses/practica (and the corrected copies of theses/practica), comprehensive examinations and M.Eng. projects to be submitted to Graduate Studies by students expecting to graduate in February. Jan. 3, 2013

For receipt, in Graduate Studies Office, of Ph.D. theses (for distribution) from graduate students expecting to graduate in May. Jan. 14, 2013

For distribution of Master's theses/practica (to examining committee) by students expecting to graduate in May Jan. 21, 2013

For reports on theses/practica (and the corrected copies of theses/practica), comprehensive examinations and M.Eng. projects to be submitted to Graduate Studies by students expecting to graduate in May April 3, 2013

For receipt, by the Faculty of Graduate Studies, of Progress Reports for Master's and Ph.D. students June 14, 2013

For receipt, in Graduate Studies Office, of Ph.D. theses (for distribution) from students expecting to graduate in October June 10, 2013

For distribution of Master's theses/practica (to examining committee) by students expecting to graduate in October June 17, 2013

Nov. 29, 2011

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

---

**Preamble:**

1. The terms of reference for the Senate Committee on Curriculum and Course Changes (SCCCC) are found on the website at: [http://www.umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/497.htm](http://www.umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/497.htm). SCCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses”.
2. Since last reporting to Senate, the Senate Committee on Curriculum and Course Changes (SCCCC) met on October 13 and 25, and November 2, 7, 17, and 21, 2011, 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 July 3, 1973, that course changes would cease to go to the SPPC when the resource implications are intra-faculty. Deans and Directors are to assess the resource implications to the respective units when course changes are proposed. Major changes in existing programs are to be referred to the SPPC for assessment of resource implications.

2. **Faculty of Agricultural and Food Sciences**

The faculty proposes a change in the wording of the ‘minors’ regulations to offer more flexibility to students.

**Animal Science**

The faculty proposes a change in the group 4 restricted electives to add GMGT 2120 Business/Government Relations and to delete GMGT 3120 Regulation which is no longer offered.

**Plant Science**

The faculty proposes the modification of one course: **PLNT 3500 Plant Physiology** (3) to update course restrictions.

### 3. Faculty of Arts

#### Anthropology

The department is proposing the deletion of one course: **ANTH 2390 Social Organization in Cross-Cultural Perspective** (6); the introduction of three courses: **ANTH 2000 Culture, Society, and Power** (B) (3), **ANTH 2020 Relatedness in a Globalizing World** (B)(3), and **ANTH 3200 Anthropology of Food** (B)(3); and the modification of three courses: **ANTH 3380 Anthropology and Contemporary Social Issues** (B)(3), **ANTH 3470 History of Anthropology** (B)(3), and **ANTH 3750 Anthropological Perspectives on Globalization and the World-System** (B)(3). The department is proposing modifications to the General Major, Advanced Major and Minor (Concentration) programs.

#### Asian Studies

The program is proposing modifications to List A, Courses Acceptable for Asian Studies Credit.

#### Canadian Studies

The program is proposing modifications to the List of Approved Courses.

#### Central and East European Studies

The program is proposing modifications to the General Major, Advanced Major and Honours Double Programs and to the List of Approved Courses.

#### English, Film, and Theatre

The Film Studies program is proposing modifications to List A.

#### French, Spanish and Italian

The department is proposing the introduction of one course: **PORT 1282 Intermediate Portuguese Grammar and Conversation 1** (3); and the modification of five courses: **PORT 1170 Introductory Portuguese** (6), **SPAN 1180 Introductory Spanish** (6), **SPAN 1190 Introductory Spanish 2** (3), **SPAN 1262 Intermediate Spanish Grammar and Conversation 1** (3), and **SPAN 1290 Accelerated Intermediate Spanish** (6).

#### German and Slavic Studies

The department is proposing the deletion of twelve courses: **GRMN 3520 Special Topics in Comparative German and Slavic Studies** (6), **SLAV 3520 Special Topics in Comparative German and Slavic Studies** (6), **POL 2320 An Outline of Polish Literature** (6), **POL 2530 Polish Civilization** (6), **UKRN 2420 Ukrainian Canadian Literature** (3), **UKRN 2430 Ukrainian Canadian Folklore** (3), **UKRN 2510 Ukrainian Mythology** (3), **UKRN 2520 Ukrainian Rites and Rituals** (3), **UKRN 3660 Ukrainian Literature in the West** (3), **UKRN 3670 Contemporary Ukrainian Literature** (3), **UKRN 3700 Church Slavic: Ukrainian Version** (3), and **UKRN 3850 Ukrainian Short Story** (3); the introduction of thirteen courses: **GRMN 3530 Special Topics in**

**Comparative German and Slavic Studies (3), SLAV 3530 Special Topics in Comparative German and Slavic Studies (3), POL 1900 Love, Heroes and Patriotism in Contemporary Poland (3), POL 2600 Polish Culture until 1918 (3), POL 2610 Polish Culture 1918 to the Present (3), POL 2660 Special Topics in Polish Literature and Culture (3), UKRN 2100 Exploring Ukrainian Literature (3), UKRN 2200 Ukrainian Myth, Rites and Rituals (3), UKRN 2410 Ukrainian Canadian Cultural Experience (3), UKRN 2800 Literature and Revolution in Ukraine (3), UKRN 2820 Holodomor and Holocaust in Ukrainian Literature and Culture (3), UKRN 3100 Ukrainian Story Writing Through the Ages (3), UKRN 3300 Literature of Independent Ukraine (3);** and the modification of one course: **GRMN 3200 Deutsche Sprachpraxis 1 (6)**. The department proposes modifications to the Russian Program Notes, the Ukrainian Minor Program and Program Notes, and the Polish Minor Program.

#### Global Political Economy

The program is proposing the modification to the General Major and Advanced Major Programs and to the List of Suggested Electives.

#### History

The department is proposing the introduction of one course: **HIST 3990 Seminar in Selected History Topics (G)(6)**; and the modification of the Honours Single and Honours Double Programs.

#### Judaic Studies

The program is proposing the deletion of one course: **ARA 2260 Elementary Arabic (6)**; the introduction of three courses: **ARA 1000 Elementary Arabic (6)**, **ARA 2000 Intermediate Arabic (6)**, and **JUD 3010 Topics in Jewish Studies (3)**; and a program modification to List A, Courses Acceptable for Judaic Studies Credit.

#### Labour Studies

The program is proposing the introduction of one course: **LABR 3400 Racism and Work (3)**; and the modification of one course **LABR 3200 Workers' Self-Management (3)**.

#### Native Studies

The program is proposing the deletion of one course: **NATV 2270 Intermediate Ojibway (6)**; the introduction of three courses: **NATV 2030 Working with Aboriginal Elders (3)**, **NATV 2722 Intermediate Ojibway 1 (3)**, and **NATV 2724 Intermediate Ojibway 2 (3)**; and the modification of two courses: **NATV 2310 Ojibway Literature (3)**, and **NATV 2330 Structure of the Ojibway Language (3)**. The program is proposing program modifications to the Native Language Minor (Options 1 and 2), the Native Studies Program Notes, the Native Studies Advanced Major – Aboriginal Governance Stream with Required Minor in Business.

### Psychology

The department is proposing the introduction of one course: **PSYC 4492 Psychology of Addiction** (3); and the modification of one course: **PSYC 3390 Thinking** (3).

### Religion

The department is proposing the introduction of three courses: **RLGN 1424 Religion and Sexuality** (B)(3), **RLGN 2140 Introduction to Judaism** (A)(3), and **RLGN 2036 Introduction to Christianity** (A)(3); and the modification of program notes.

### Ukrainian Canadian Heritage Studies

The program is proposing modifications to List B and List C.

### Women's and Gender Studies

The program is proposing the deletion of one course: **WOMN 3610 Dream Girls, Show Girls, Riot Grrls** (3); and the introduction of one course: **WOMN 3100 Sex Work in Contemporary Canadian Culture** (3).

## 4. Faculty of Dentistry

The introduction of eighteen second year courses by the Faculty of Dentistry represents the second phase of the Faculty's implementation of a revised credit hour system for the undergraduate program that more accurately reflect students' contact hours and workload for each course. Existing second year courses, with the previous credit hour weighting, will be deleted once all students admitted to the program prior to 2011 have completed all coursework.

The course changes, which total more than ten credit hours (net change in credit hours: +49) and do not have any new resource implications, were reported to the Senate Planning and Priorities Committee for information at its meeting of September 26, 2011.

In phase two of the revision to the undergraduate curriculum, the faculty is proposing the introduction of 18 courses for the second year program: **DDS 2122 Oral Pathology** (5), **DDSS 2130 Pain and Anxiety Control** (1), **DDSS 2100 Periodontology – 2** (2), **DDSS 2110 Radiology – 2** (1), **DENT 2202 Introduction to Comprehensive Care** (4), **ORLB 2312 Structure and Function of Major Organ Systems** (4), **ORLB 2320 Cardiology and Plaque Associated Diseases** (3), **ORLB 2300 Pathology and Microbiology – 1** (1), **ORLB 2330 Nutrition in Dentistry** (2), **PDSD 2400 Orthodontics – 2** (2), **PDSD 2410 Pediatric Dentistry – 1** (3), **PDSD 2420 Dental Public Health** (1), **RSTD 2502 Dental Materials Science – 2** (2), **RSTD 2510 Operative Dentistry – 2** (3), **RSTD 2520 Endodontology – 1** (2), **RSTD 2532 Fixed Prosthodontics – 1** (6), **RSTD 2540 Removable Partial Denture Prosthodontics** (3), **RSTD 2552 Complete Denture Prosthodontics** (4).

5. **Faculty of Engineering**

The faculty is proposing the deletion of one course: **ENG 4010 Practicing Professional Engineering in Manitoba** (3); and the introduction of one course: **ENG 4020 Professional Engineering Practice in Manitoba** (4).

6. **Clayton H. Riddell Faculty of Environment, Earth, and Resources**

Environment and Geography

The department is proposing the deletion of two courses: **GEOG 3710 Population and the Third World** (3), and **GEOG 3720 Refugees, Displacees, Exiles** (3); the introduction of two courses: **GEOG 3330 Population Issues in the Developing World** (3), and **GEOG 3340 Migration and Mobility in a Globalized World** (3); and the modification of four courses: **ENVR 3250 Environmental Assessment** (3), **ENVR 4650 Advanced Issues in Environmental Law and Policy** (3), **GEOG 3870 Food Geographies** (3), and **GEOG 4590 Spatial Analysis** (3). The department is proposing a program modification to the required courses for the Bachelor of Environmental Science and the Bachelor of Environmental Studies degree programs.

7. **Faculty of Human Ecology**

The faculty is proposing the introduction of one course **HMEC 3000 Introduction to Social Epidemiology** (3) and a modification to the degree requirements for the general degree program.

Family Social Sciences

The department is proposing three course deletions: **FMLY 4600 Risk and Resilience in Behavioural and Social Development** (3), **FMLY 3804 Violence Against Children in the Family** (3), and **FMLY 4800 Senior Seminar in Family Violence and Conflict Resolution** (3); five course introductions: **FMLY 4500 Senior Thesis** (6), **FMLY 4220 Aging and Risk in a Global Context** (3), **FMLY 4604 Children in Adversity** (3), **FMLY 3806 Children, Violence and Rights** (3), and **FMLY 4802 Family Violence Prevention** (3); and three course modifications: **FMLY 3400 Families as Consumers** (3), **FMLY 4400 Family Economics: Poverty and Wealth** (3), and **FMLY 3330 Parenting and Developmental Health** (3). The department is also proposing program modifications.

Interdisciplinary Health Program

The program is proposing modifications to the required and elective courses for the Bachelor of Health Sciences and the Bachelor of Health Studies degrees.

8. **Faculty of Kinesiology and Recreation Management**

The faculty is proposing a program modification for the Bachelor of Recreation Management and Community Development degree. The course REC 3850 The Planning of Recreation Areas and Facilities is to be deleted as a required course and will become a faculty elective within the faculty's course offerings.

9. **Faculty of Law**

The faculty is proposing the deletion of four courses: **LAW 3140 Clinical Administrative Law** (4), **LAW 3260 Insurance Law** (4), **LAW 3930 The Legal Profession and Professional Responsibility** (3), and **LAW 3500 Intellectual Property** (4); and the introduction of five courses: **LAW 3020 Clinical Administrative Law** (3), **LAW 3022 Insurance Law** (3), **LAW 3024 The Legal Profession and Professional Responsibility** (3), **LAW 3026 Trademarks and Patents** (3), and **LAW 3028 Copyright Law** (3).

10. **Asper School of Business - Faculty of Management**

**Warren Centre for Actuarial Studies**

The centre is proposing one course modification: **ACT 4140 Actuarial Modeling Methods 1** (3) and a program modification to the requirements for an Actuarial Mathematics Major.

11. **Faculty of Nursing**

The Faculty is proposing the program completion requirement for the last seven terms of the B.N. degree be changed from ten (10) to six (6) years.

12. **Faculty of Medicine**

**School of Medical Rehabilitation**

The school is proposing the deletion of six courses in response to the phasing out of the Bachelor of Physical Therapy program: **REHB 1200 Basic Clinical Sciences** (3), **REHB 1480 Human Anatomy** (3), **PT 1700 Psychosocial Issues** (6), **PT 1730 Physical Therapy Management** (10), **PT 1750 Rehabilitation Exercise 1** (6), and **PT 1910 Pathology and Clinical Manifestations** (5).

13. **Faculty of Pharmacy**

The faculty is proposing the deletion of two courses: **PHRM 3100 Pharmacy Skills Lab 3** (2) and **PHRM 3500 Clinical Pharmacokinetics** (4); the introduction of two courses: **PHRM 3110 Pharmacy Skills Lab III** (3) and **PHRM 3550 Clinical Pharmacokinetics** (3). The faculty proposes that the third year curriculum be modified to reflect these changes.

14. **Faculty of Science**

**Actuarial Mathematics**

The program is proposing program modifications to the Honours Actuarial and the Joint Statistics – Actuarial Mathematics Honours programs and the program Notes.



### Biochemistry

The department is proposing program modifications to the Joint Honours and Joint Honours Cooperative Option programs.

### Biological Sciences

The department is proposing one course modification: **BIOL 3242 Vascular Flora of Manitoba** (3); and program modifications to the Honours and 4-Year Major programs.

### Mathematics

The department is proposing the deletion of two courses: **MATH 4900 Project Course in Applied Mathematics 1** (3), and **MATH 4960 Topics in Mathematics 2** (6); the introduction of one course: **MATH 4910 Project Course in Mathematics** (3); and two course modifications: **MATH 3120 Applied Discrete Mathematics** (3), and **MATH 4920 Topics in Mathematics 1** (3).

### Microbiology

The department is proposing the modification of five courses: **MBIO 2410 Essentials of Molecular Biology** (3), **MBIO 3980 Work Term 1** (0), **MBIO 4520 Industrial Bioprocesses** (3), **MBIO 4610 Molecular Genetics of Eukaryotes** (3), and **MBIO 4612 Molecular Genetics of Eukaryotes – Lectures** (3).

### Statistics

The department is proposing the introduction of four courses: **STAT 3980 Work Term 1** (0), **STAT 3990 Work Term 2** (0), **STAT 4980 Work Term 3** (0), and **STAT 4990 Work Term 4** (0); the modification of one course **STAT 3490 Time Series Analysis** (3); and program modifications to the Statistics Honours and Major programs, and the Joint Statistics – Actuarial Mathematics Honours program.

## 15. Université de Saint-Boniface

### Anthropology

The Université is proposing the deletion of one course: **ANTH 2391 Organisation sociale transculturelle: Introduction à l'ethnographie** (B)(6); the introduction of one course **ANTH 2001 Culture, société et pouvoir** (3); and the modification of three courses **ANTH 3381 Problèmes sociaux contemporains et l'anthropologie** (B)(3), **ANTH 3471 Histoire de la pensée anthropologique** (B)(3), and **ANTH 3751 Globalisation et mondialisation: une perspective anthropologique** (B)(3).

### Spanish

The Université is proposing the deletion of one course: **SPAN 1181 Introduction à l'espagnol** (6); the introduction of one course: **SPAN 1171 Introduction à l'espagnol I** (3); and the modification of two courses: **SPAN 1191 Introduction à l'espagnol II** (3), and **SPAN 1261 Espagnol intermédiaire** (3).

#### Biological Sciences

The Université is proposing the modification of four courses: **BIOL 1021 Biologie I: thèmes et principes** (3), **BIOL 2411 Physiologie du corps humain I** (3), **BIOL 3291 Plantes médicinales et hallucinogènes** (3), and **BIOL 3501 Génétique 2** (3).

#### Chemistry

The Université is proposing the modification of two courses: **CHEM 2471 Introduction à la chimie analytique** (3), and **CHEM 3571 Chimie biophysique** (3).

#### English

The Université is proposing the modification of two courses: **ENGL 1061 Anglais langue seconde I** (3), and **ENGL 1071 Anglais langue seconde II** (3).

#### Francais

The Université is proposing the modification of one course: **FRAN 1091 Rédaction universitaire** (3).

#### Microbiology

The Université is proposing the modification of one course: **MBIO 4601 Génétique moléculaire des procaryotes** (3).

#### Sociology

The Université is proposing the modification of one course: **SOC 3391 Théories sociologiques contemporaines** (3).

## **Recommendations**

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

**Faculty of Agricultural and Food Sciences**

**Faculty of Arts**

**Faculty of Dentistry**

**Faculty of Engineering**

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

**Faculty of Human Ecology**

**Faculty of Kinesiology and Recreation Management**

**Faculty of Law**

**Asper School of Business, Faculty of Management**

**Faculty of Medicine, School of Medical Rehabilitation**

**Faculty of Nursing**

**Faculty of Pharmacy**

**Faculty of Science**

**Université de Saint-Boniface**

Respectfully submitted,

Professor H. Frankel, Chair  
Senate Committee on Curriculum and Course Changes

/sc

## Faculty of Agricultural & Food Sciences

### Program modification:

#### 4.3 Minors

As part of the electives portion of their programs, students may declare and complete a Minor from departments in which a Minor is offered. Course requirements are outlined in sections below. Minors are also available in the Faculties of Arts, Environment, Human Ecology, and Science and can be found within the departmental sections of each of these faculties. A Management Minor is offered by the Asper School of Business; Agriculture, Agroecology and Food Science students may complete this minor (this minor is not available to Agribusiness students). The Minor consists of 18 credit hours of Management courses. Students must meet prerequisites for all courses. Completion of a Minor is optional. ~~All program minors must be declared before 90 credit hours of student have been completed.~~ ***It should be noted that planning for completion of a Minor should be done early in the program, ideally before 90 credit hours have been completed, due to restricted opportunities later in the program.*** All 2<sup>nd</sup> program majors must be declared before 75 credit hours of study have been completed.

## Animal Science

### Program modification:

#### Animal Systems Program

##### Group 4 Restricted Electives:

One course (three credit hours) from the following:

GMGT 2070 Introduction to Organizational Behaviour (3)

~~GMGT 3120 Regulation (3)~~

**GMGT 2120 Business/Government Relations (3)**

HRIR 2440 Human Resource Management (3)

## Plant Science

### Modification:

#### PLNT 3500 Plant Physiology Cr.Hrs. 3

An integrative view of major physiological processes in plants, spanning the biochemical, cellular, tissue, organ and whole plant levels of organization and addressing the effects of environmental conditions on these processes. Topics covered: photosynthesis and respiration, water relations, plant nutrition, assimilate partitioning, and regulation of growth. Not to be held with 039.350, BIOL 3450 or the former BOTN 2020 (or 001.202) or BIOL 3452 or the former BOTN 3010 (or 001.301) or the former 001.317. Prerequisites: BIOL 1020 and BIOL 1030 or the former 071.125; CHEM 2770 (or 002.277) or MBIO 2770 (or 060.277) or CHEM 2360 (or 002.236) or MBIO 2360 (or 060.236); BIOL 2242 or the former BOTN 2010 (or 001.201) or the former 001.230 or consent of instructor.

**NET CHANGE IN CREDIT HOURS: 0**

Faculty of Arts  
Anthropology

Deletion:

ANTH 2390 Social Organization in Cross-Cultural Perspective Cr.Hrs. 6 -6

Introductions:

ANTH 2000 Culture, Society, and Power (B) Cr.Hrs. 3 +3  
An advanced introduction to cultural anthropology that focuses on anthropological approaches to the cross-cultural organization, dynamics, and tensions of social relationships at individual, group, and societal levels. Students may not hold credit for ANTH 2000 and any of: ANTH 2001 or the former ANTH 2390 (076.239) or the former ANTH 2391 (076.239). Prerequisite: [a grade of "C" or better in one of: ANTH 1220 (076.122) or ANTH 1221 (076.122) or ANTH 1520 (076.152) or the former 076.120] or written consent of instructor.

ANTH 2020 Relatedness in a Globalizing World (B) Cr. Hrs. 3 +3  
Anthropological approaches to diverse practices of human relatedness across cultures and over time, including 21st century reconfigurations of marriage, family, reproduction and kinship.

ANTH 3200 Anthropology of Food (B) Cr.Hrs. 3 +3  
Considers the diversity of ways that anthropologists have used food as a productive entry point for understanding culture, society, and human ecology. The course will survey highpoints in the history of the anthropology of food and address current topics such as food security and food movements. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 (076.122) or ANTH 1221 (076.122) or ANTH 1520 (076.152) or the former 076.120] or written consent of instructor.

Modifications:

ANTH 3380 Anthropology and Contemporary Social Issues (B) Cr.Hrs. 3  
(formerly 076.338) Anthropological perspectives on poverty, social accountability, colonialism, racism, education, ecological degradation and violence. Students may not hold credit for both ANTH 3380 (076.338) and ANTH 3381 (076.338). Prerequisite: [a grade of "C" or better in ANTH 2000 (or ANTH 2001) and 3 credit hours of 2000-level Group B courses] or [a grade of "C" or better in the former ANTH 2390 (076.239) or the former ANTH 2391 (076.239)] or written consent of instructor.

ANTH 3470 History of Anthropology (B) Cr.Hrs. 3  
(formerly 076.347) A temporal survey of the development of major paradigms and theoretical movements in anthropological thought and method. Students may not hold credit for both ANTH 3470 (076.347) and ANTH 3471 (076.347). Prerequisite: [a grade of "C" or better in ANTH 2000 (or ANTH 2001) and 3 credit hours of 2000-level Group B courses] or [a grade of "C" or better in the former ANTH 2390 (076.239) or the former ANTH 2391 (076.239)] or written consent of instructor.

ANTH 3750 Anthropological Perspectives on Globalization and the World-System (B) Cr.Hrs. 3  
(formerly 076.375) An anthropological perspective on the modern world-system and the expansion of capitalism into peripheral areas of the world; the transformation of indigenous societies and cultures; the rise of ethnic conflict, protest and resistance; and a comparative examination of selected global and transnational processes. Students may not hold credit for

both ANTH 3750 (076.375) and ANTH 3751 (076.375). Prerequisite: [a grade of “C” or better in one of: ANTH 1220 (076.122) or ANTH 1221 (076.122) or ANTH 1520 (076.152) or ANTH 2000 or ANTH 2001 or the former ANTH 2390 (076.239) or the former ANTH 2391 (076.239) or the former 076.120] or written consent of instructor.

## NET CHANGE IN CREDIT HOURS: +3

Program modifications:

The department is proposing modifications to the General Major, Advanced Major and Minor (Concentration) programs.

### - Revisions to General Major, Advanced Major and Minor (Concentration) Programs

Added material

Deleted material

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>GENERAL MAJOR<sup>1</sup> TOTAL: 30 CREDIT HOURS</b>			
ANTH 1210 and ANTH 1220 (or ANTH 1520)	<p><del>ANTH 2390; 6 credit hours in one of: Archaeology (Group D), or Physical Anthropology (Group C); 12 credit hours in Anthropology.</del></p> <ul style="list-style-type: none"> <li>• <u>ANTH 2000</u></li> <li>• <u>3 credit hours of 2000 level Group B courses</u></li> <li>• <u>6 credit hours in Group D or Group C courses</u></li> <li>• <u>12 credit hours in additional Anthropology</u></li> </ul>		
<b>ADVANCED MAJOR<sup>1</sup> TOTAL: 60 CREDIT HOURS</b>			
ANTH 1210 and ANTH 1220 (or ANTH 1520)	<p>ANTH 2390</p> <ul style="list-style-type: none"> <li>• <u>ANTH 2000</u></li> <li>• <u>3 credit hours of 2000 level Group B courses</u></li> </ul>	<ul style="list-style-type: none"> <li>• ANTH 3470</li> <li>• one of ANTH 2890, ANTH 3730, ANTH 3930, ANTH 3950, ANTH 3980, ANTH 3990</li> </ul>	<ul style="list-style-type: none"> <li>• ANTH 4850</li> <li>• 9 credit hours in Anthropology (of these a minimum of 3 credit hours must be at the 4000 level). No more than 6 credit hours may be taken from ANTH 4830 and ANTH 4840</li> </ul>
	<ul style="list-style-type: none"> <li>• Required In years two and three are 6 additional credit hours from each of groups B, C, and D courses</li> <li>• an additional 12 credit hours in Anthropology preferably including courses from Group E and ANTH 2370. A minimum of 9 credit hours (in addition to ANTH 3470) must be at the 3000 level. Students considering graduate studies should include a quantitative methods course among their non-Anthropology electives (e.g., Sociology SOC 2290, Statistics STAT 1000 and STAT 2000).</li> </ul>		
<b>MINOR (CONCENTRATION)<sup>1</sup> TOTAL: 18 CREDIT HOURS</b>			
ANTH 1210 and ANTH 1220 (or ANTH 1520)	<p>An additional 12 credit hours in Anthropology. <del>ANTH 2390</del> <u>ANTH 2000 and 3 credit hours of 2000 level Group B</u> are recommended for students taking a Minor to <u>gain an academic grounding fundamental to many subsequent Anthropology courses, because the course is fundamental to many subsequent Anthropology courses.</u></p>		
<b>NOTE:</b>			
<sup>1</sup> Courses NATV 2070 and NATV 2080 offered by the Department of Native Studies count for credit (Category B) towards a General Major and Advanced Major in Anthropology.			

### Asian Studies

#### Program modification:

Addition of the following courses to List A, Courses Acceptable for Asian Studies Credit: RLG N 2010 Introduction to Hinduism (3), RLG N 2020 Introduction to Buddhism (3), RLG N 3150 Buddhism in East Asia (3), RLG N 3160 Tibetan Religious Traditions (3), RLG N 3210 Indian Philosophy (3), RLG N 3220 Indian Religion and Society (3), RLG N 3260 Indian Buddhism (3), RLG N 3266 Readings in Buddhist Texts (3), RLG N 3270 Guru and Disciple (3), RLG N 4060 The Yoga Tradition (3), RLG N 4100 Advanced Studies in Buddhism (3), and RLG N 4190 Advanced Studies in Hinduism (3).

### Canadian Studies

#### Program modification:

Addition of the following courses to the List of Approved Courses in Canadian Studies: NATV 2272 Intermediate Ojibway 1 (3), NATV 2274 Intermediate Ojibway 2 (3), UKRN 2410 Ukrainian Canadian Cultural Experience (3). The following courses on the list will be designated as no longer offered: NATV 2270 Intermediate Ojibway (6), UKRN 2420 Ukrainian Canadian Literature (3), UKRN 2430 Ukrainian Canadian Folklore (3).

### Central and East European Studies

#### Program modifications:

The Program is proposing changes to the General Major Program, the Advanced Major Program, and the Honours Double Program. See the following page for details.

Addition of the following courses to the List of Approved Courses in Central and East European Studies: GRMN 3530 Special Topics in Comparative German and Slavic Studies (3), POL 1900 Love, Heroes and Patriotism in Contemporary Poland (3), POL 2600 Polish Culture until 1918 (3), POL 2610 Polish Culture 1918 to the Present (3), SLAV 3530 Special Topics in Comparative German and Slavic Studies (3), UKRN 2200 Ukrainian Myths, Rites and Rituals (3), UKRN 2800 Literature and Revolution in Ukraine (3), UKRN 2820 Holodomor and Holocaust in Ukrainian Literature and Culture (3), UKRN 3100 Ukrainian Story Writing Through the Ages (3), UKRN 3300 Literature of Independent Ukraine (3). The following courses on the list will be designated as no longer offered: GRMN 3520 Special Topics in Comparative German and Slavic Studies (6), SLAV 3520 Special Topics in Comparative German and Slavic Studies (6), UKRN 3670 Contemporary Ukrainian Literature (3), UKRN 3850 Ukrainian Short Story (3).

- Revisions to General Major, Advanced Major and Minor Programs

Added material

~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>GENERAL MAJOR TOTAL: 30 CREDIT HOURS</b>			
6 credit hours in a language from courses numbered at the 1000 or 2000 level in Russian, German, Ukrainian, Polish or Yiddish, plus 6 credit hours from the List of Approved Courses in Central and East European Studies	18 credit hours from the List of Approved Courses in Central and East European Studies below, of which at least 6 credit hours must be taken from each of 2 different departments <sup>2</sup>		
<b>ADVANCED MAJOR TOTAL: 48 CREDIT HOURS</b>			
6 credit hours in a language from courses numbered at the 1000 or 2000 level in Russian, German, Ukrainian, Polish or Yiddish, plus 6 credit hours from the List of Approved Courses in Central and East European Studies	36 credit hours from the List of Approved Courses in Central and East European Studies below, of which at least 12 credit hours must be taken from each of two different departments <sup>3</sup>		
<b>HONOURS DOUBLE<sup>1</sup></b>			
6 credit hours in a language from courses numbered at the 1000 level <sup>2</sup> in Russian, German, Ukrainian, Polish or Yiddish, plus 18 credit hours from the List of Approved Courses in Central and East European Studies	<ul style="list-style-type: none"><li>• either UKRN 2720 or RUSN 2810<sup>3</sup></li><li>• 6 credit hours from the following, Economics: ECON 2270; History: HIST 2490, HIST 2600, HIST 2610, HIST 2660, HIST 2680; Slavic Studies: RUSN 2280, RUSN 2290, UKRN 2770, UKRN 2780</li><li>• 12 credit hours in other Honours field</li><li>• 6 credit hours in options</li></ul>	<ul style="list-style-type: none"><li>• either both RUSN 3200 and RUSN 3210, or both UKRN 3950 and UKRN 3960<sup>3</sup></li><li>• <del>6 credit hours from the following, History: HIST 3030; Slavic Studies: UKRN 3670</del></li><li>• <u>HIST 3030 and UKRN 3300</u></li><li>• minimum of 12 credit hours in other Honours field</li></ul>	<ul style="list-style-type: none"><li>• <del>12 credit hours from the following, History: HIST 4300</del></li><li>• <u>12 credit hours from courses numbered at the 4000 level in German, History, Political Studies, Russian or Ukrainian<sup>6</sup></u></li><li>• minimum of 12 hours of credit in other Honours field</li></ul>

**NOTES:**

<sup>1</sup> The double Honours program is only available to students registered in the Honours program in Economics, History, or Political Studies.

<sup>2</sup> Students should note that while the majority of students begin language instruction with courses numbered at the 1000 level, in exceptional circumstances and with the approval of the committee, students may begin language instruction with courses numbered at the 2000 level.

<sup>3</sup> Students who begin with 6 hours of courses numbered beyond the 1000 level in Russian or Ukrainian may take either 6 or 12 credit hours in Russian or Ukrainian or 6 or 12 credit hours in another language approved by the committee.

<sup>4</sup> Students who have declared a Major in Russian, German, or Ukrainian can either take 12 credit hours from at least two different subject fields from the List of Approved Courses in Central and East European Studies, or 6 credit hours from courses numbered at the 1000 or 2000 level in a language (Russian, German, Ukrainian, or Polish) other than their declared Major and 6 credit hours from the List of Approved Courses in Central and East European Studies.

<sup>5</sup> Students may substitute up to 6 credit hours with language courses numbered at the 1000 or 2000 level in Russian, German, Ukrainian, Polish or Yiddish.

<sup>6</sup> Courses must be individually approved by the program coordinator as relevant to Central and East European Studies. For information on available courses, please contact the program coordinator.



## English, Film, and Theatre

### Program modification:

Modification to Film Studies List A to indicate the following courses as no longer offered: POL 2320 An Outline of Polish Literature (6), UKRN 2420 Ukrainian Canadian Literature (3), UKRN 3660 Ukrainian Literature in the West (3), UKRN 3670 Contemporary Ukrainian Literature (3).

## French, Spanish and Italian

### Introduction:

PORT 1282 Intermediate Portuguese Grammar and Conversation 1 Cr.Hrs. 3 +3  
(Lab required) This course is the first of the intermediate Portuguese language sequence. Focus is on developing intermediate skills in reading, writing, speaking and listening. The primary goals are to build communicative competence and enhance social and cultural awareness of Portugal and Brazil. Not open to students with native oral fluency. Prerequisite: [a grade of "C" or better in PORT 1170] or written consent of instructor or department head.

### Modifications:

PORT 1170 Introductory Portuguese Cr.Hrs. 6  
(Lab required) A course designed for those with little or no previous knowledge of Portuguese. The course includes grammar, reading and oral practice, with language laboratory exercises. An oral approach is utilized. The student is given glimpses of cultural aspects of Portugal and Brazil. Students with high school Portuguese or its equivalent may not normally take the course for credit. Not open to students who have previously obtained credit in PORT 1282.

SPAN 1180 Introductory Spanish Cr.Hrs. 6  
(formerly 044.118)(Lab required) A course designed for those with little or no previous knowledge of Spanish. The course includes grammar, reading and oral practice, with language laboratory exercises. An oral approach is utilized. The student is given glimpses of cultural aspects of Spain and Spanish America. Students with Senior 4 Spanish may not normally take the course for credit. Not open to students with native oral fluency. Students may not hold credit for SPAN 1180 and any of: SPAN 1171 or SPAN 1190 or SPAN 1191 or the former SPAN 1181 (former TRAD 1181 or former 122.118). Not open to students who have previously obtained credit in SPAN 1262 or the former SPAN 1260 (044.126) or SPAN 1261 (former TRAD 1261 or former 122.126) or SPAN 1272 or the former SPAN 1270 (044.127) or SPAN 1271 (former TRAD 1271 or former 122.127) or SPAN 1280 or SPAN 1290.

SPAN 1190 Introductory Spanish 2 Cr.Hrs. 3  
(Lab required) The second term of SPAN 1180 Introductory Spanish. This course is intended for students who have already knowledge of the alphabet and the sound system, as well as elementary comprehension, communication and writing skills equivalent to those that would be achieved in the first term of SPAN 1180. Students may not hold credit for SPAN 1190 and any of: SPAN 1191 or SPAN 1180 (044.118) or the former SPAN 1181 (former TRAD 1181 or former 122.118). Not open to students who have previously obtained credit in SPAN 1262 or the former SPAN 1260 (044.126) or SPAN 1261 (former TRAD 1261 or former 122.126) or SPAN 1272 or the former SPAN 1270 (044.127) or SPAN 1271 (former TRAD 1271 or former 122.127) or SPAN 1280 or SPAN 1290. Prerequisite: [a grade of "C" or better in SPAN 1171] or [Senior 4 Spanish] or written consent of instructor or department head.

**SPAN 1262 Intermediate Spanish Grammar and Conversation 1 Cr.Hrs. 3**

(Lab required) This course is the first of the intermediate Spanish language sequence. Focus is on developing intermediate skills in reading, writing, speaking and listening. The primary goals are to build communicative competence and enhance social and cultural awareness of the Spanish-speaking world. Not open to students with native oral fluency. Students may not hold credit for SPAN 1262 and any of: SPAN 1261 (former TRAD 1261 or former 122.126) or SPAN 1280 or SPAN 1290 or the former SPAN 1260 (044.126). Prerequisite: [a grade of "C" or better in SPAN 1180 (044.118) (the former SPAN 1181 or the former TRAD 1181 or the former 122.118) or SPAN 1190 or SPAN 1191] or written consent of instructor or department head.

**SPAN 1290 Accelerated Intermediate Spanish Cr.Hrs. 6**

(Lab required) This is a one term accelerated course which combines the content of SPAN 1262 and SPAN 1272 (or the former SPAN 1260 (044.126) and the former SPAN 1270 (044.127)). It is a review of grammar and pronunciation structured around extensive writing practice and conversation of contemporary issues relating to the Spanish-speaking world. There will be six hours of classroom instruction with a two hour laboratory per week. This course is not open to students with native oral fluency. Students may not hold credit for SPAN 1290 and any of: SPAN 1262 or the former SPAN 1260 (044.126) or SPAN 1261 or SPAN 1272 or the former SPAN 1270 (044.127) or SPAN 1271 or SPAN 1280 or the former TRAD 1261 (122.126) or the former TRAD 1271 (122.127). Prerequisite: [a grade of "C" or better in SPAN 1180 (044.118) (or the former SPAN 1181 or the former TRAD 1181 or the former 122.118) or SPAN 1190 or SPAN 1191] or written consent of instructor or department head.

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

German and Slavic Studies

Deletions:

GRMN 3520 Special Topics in Comparative German and Slavic Studies Cr.Hrs. 6	-6
SLAV 3520 Special Topics in Comparative German and Slavic Studies Cr.Hrs. 6	-6
POL 2320 An Outline of Polish Literature Cr.Hrs. 6	-6
POL 2530 Polish Civilization Cr.Hrs. 6	-6
UKRN 2420 Ukrainian Canadian Literature Cr.Hrs. 3	-3
UKRN 2430 Ukrainian Canadian Folklore Cr.Hrs. 3	-3
UKRN 2510 Ukrainian Mythology Cr.Hrs. 3	-3
UKRN 2520 Ukrainian Rites and Rituals Cr.Hrs. 3	-3
UKRN 3660 Ukrainian Literature in the West Cr.Hrs. 3	-3
UKRN 3670 Contemporary Ukrainian Literature Cr.Hrs. 3	-3
UKRN 3700 Church Slavic: Ukrainian Version Cr. Hrs. 3	-3
UKRN 3850 Ukrainian Short Story Cr.Hrs. 3	-3

Introductions:

GRMN 3530 Special Topics in Comparative German and Slavic Studies Cr.Hrs. 3 +3  
Language of instruction: English. Topics comparing German and Slavic – Ukrainian, Russian, Polish – literatures and cultures. Course is co-taught by a member from the German and one from the Slavic Section. Course content will vary from year to year depending on interests and needs of students and staff. Possible topics include Memory of World War II, Cold War and Post-Cold War, and Modernism. Students may not hold credit for both SLAV 3530 and UKRN 3530 when topic is the same. Prerequisite: [a grade of "C" or better in a minimum of 30 credit

hours of university level coursework] or written consent of department head. As the course content will vary from year to year, students may take this course more than once for credit.

SLAV 3530 Special Topics in Comparative German and Slavic Studies Cr.Hrs. 3 +3  
Language of instruction: English. Topics comparing German and Slavic – Ukrainian, Russian, Polish – literatures and cultures. Course is co-taught by a member from the German and one from the Slavic Section. Course content will vary from year to year depending on interests and needs of students and staff. Possible Topics include Memory of World War II, Cold War and Post-Cold War, and Modernism. Students may not hold credit for both GRMN 3530 and SLAV 3530 when topic is the same. Prerequisite: [a grade of “C” or better in a minimum of 30 credit hours of university level coursework] or written consent of department head. As the course content will vary from year to year, students may take this course more than once for credit.

POL 1900 Love, Heroes and Patriotism in Contemporary Poland Cr.Hrs. 3 +3  
A study of the impact of Romanticism on contemporary Polish national consciousness, images of love, and the role of art and the artist in society. The course explores diverse written and visual sources representing Polish and European Romanticism and its mutual influences. Lectures and readings in English.

POL 2600 Polish Culture until 1918 Cr.Hrs. 3 +3  
An introductory survey from the beginnings of the Polish state to 1918. This is a lecture style course devoted to studying the achievements of Polish culture and their impact on world culture. Students will observe the creation of Polish national identity through the examination of documents from literature and culture. Lectures and readings in English. Students may not hold credit for both POL 2600 and the former POL 2530 (052.253).

POL 2610 Polish Culture 1918 to the Present Cr.Hrs. 3 +3  
An introductory survey from 1918 to the present. This is a lecture style course devoted to studying the achievements of Polish culture and their impact on shaping of the contemporary Polish society. Students will observe the cultural changes that defined Poland following one hundred years of non-existence as a nation. The re-examining of the Polish national identity will be studied through documents from literature, art, mythology and music. Lectures and readings in English. Students may not hold credit for both POL 2610 and the former POL 2530 (052.253).

POL 2660 Special Topics in Polish Literature and Culture Cr.Hrs. 3 +3  
Topics dealing with Polish literature and culture. Content of this course will vary from year to year, depending on the needs and interests of instructors and students. As the course content will vary from year to year, students may take this course more than once for credit.

UKRN 2100 Exploring Ukrainian Literature Cr.Hrs. 3 +3  
Language of instruction: Ukrainian. An introduction to Ukrainian literature that simultaneously helps students improve their language skills. This is a transitional course that builds upon a basic reading knowledge. A number of works by major authors and from different genres are discussed. Activities and assignments focus on developing reading competency, vocabulary, written and oral expression. Prerequisite: [a grade of “C” or better in UKRN 2720 (052.272) or UKRN 2730 (052.273) or UKRN 3950 (052.395) or UKRN 3960 (052.396)] or written consent of department head.

UKRN 2200 Ukrainian Myth, Rites and Rituals Cr.Hrs. 3 +3  
An exploration of folk mythology, and the rites, rituals and festivals associated with the calendar cycle. Lectures and readings in English. Students may not hold credit for UKRN 2200 and any of: the former UKRN 2510 (052.251) or the former UKRN 2520 (052.252).

UKRN 2410 Ukrainian Canadian Cultural Experience Cr.Hrs. 3 +3  
A study of the legacy left by several generations of Ukrainian Canadians in literature and the performing arts, music, art and architecture, with particular attention to the construction of identity and the critique of culture. Lectures and readings in English. Students may not hold credit for both UKRN 2410 and the former UKRN 2420 (052.242).

UKRN 2800 Literature and Revolution in Ukraine Cr.Hrs. 3 +3  
A study of literature and its relationship to the arts in the decade that followed the Revolution of 1917. Lectures in English. Readings available in English and in the original. Viewing and discussion of films.

UKRN 2820 Holodomor and Holocaust in Ukrainian Literature and Culture Cr.Hrs. 3 +3  
A study of how the Holodomor (Famine) of 1932-33 and the Holocaust have been represented, and of the international impact of these representations. References to art and film. Lectures and readings in English.

UKRN 3100 Ukrainian Story Writing Through the Ages Cr.Hrs. 3 +3  
Masterpieces of the short story genre from early modern times to the present. Focusing on great works and writers, the course provides insights into the genre and into different periods in Ukrainian literature. Film adaptations of some works will be viewed and discussed. Students may not hold credit for both UKRN 3100 and the former UKRN 3850 (052.385).

UKRN 3300 Literature of Independent Ukraine Cr.Hrs. 3 +3  
A study of recent writings from Ukraine, focusing on the post-1991 period. References to art and film of the period.

Modification:

GRMN 3200 Deutsche Sprachpraxis 1 Cr.Hrs. 6  
(formerly 008.320) Modern German usage through conversation, writing and practical exercises; study of contemporary fictional and non-fictional texts and films. Emphasis on vocabulary and structural and stylistic problems. Students may not hold credit for both GRMN 3200 (008.320) and GRMN 3201 (008.320). Prerequisite: a grade of "C" or better in GRMN 2100 (008.210) or GRMN 2101 (008.210).

## **NET CHANGE IN CREDIT HOURS: -9**

Program modifications:

The Department is proposing modifications to the Russian Program Notes, the Ukrainian Minor Program (Year 2/3 requirements), the Ukrainian Program Notes, and the Polish Minor Program. See the following pages for details.

**Russian**  
**2011-2012 Undergraduate Calendar**  
**- Revisions to Program Notes**

Added material

~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>GENERAL RUSSIAN MAJOR TOTAL: 30 CREDIT HOURS</b>			
6 credit hours from RUSN 1300, RUSN 1330, RUSN 2810 or RUSN 2820	24 credit hours in Russian (RUSN) or Slavic Studies (SLAV) courses of which at least 6 credit hours must be in language courses numbered at the 3000 level		
<b>RUSSIAN MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS</b>			
6 credit hours from RUSN 1300, RUSN 1330, RUSN 2810 or RUSN 2820	12 credit hours in Russian (RUSN) or Slavic Studies (SLAV) courses		
<b>NOTES:</b>			
With written consent from the department head, courses offered by other departments may be approved for credit.			
The following courses count as language courses: RUSN 1300, RUSN 1330, RUSN 2630, RUSN 2810, RUSN 2820, RUSN 2830, RUSN 3200, RUSN 3210, RUSN 3220.			
The following courses count as <u>literature and culture and literature</u> -courses: RUSN 1400, RUSN 2280, RUSN 2290, RUSN 2310, RUSN 2410, RUSN 2740, RUSN 2760, RUSN 3330, RUSN 3580, RUSN 3770, RUSN 3780, RUSN 3790, RUSN 3900, RUSN 3980, SLAV 2240, SLAV 2250, SLAV 2260, SLAV 2270, <del>SLAV-3520</del> , <u>SLAV 3530</u> , SLAV 3920.			

**Ukrainian**  
**2011-2012 Undergraduate Calendar**  
**- Revisions to Program Notes**

Added material  
~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
GENERAL UKRAINIAN MAJOR TOTAL: 30 CREDIT HOURS			
6 credit hours from UKRN 1310, UKRN 1320, UKRN 2720 or UKRN 2730	24 credit hours in Ukrainian (UKRN) or Slavic Studies (SLAV) courses of which at least 6 credit hours must be in language courses numbered at the 3000 level		
UKRAINIAN MINOR (CONCENTRATION) TOTAL: 18 CREDIT HOURS			
6 credit hours from UKRN 1310, UKRN 1320, UKRN 2720 or UKRN 2730	12 credit hours in Ukrainian (UKRN) or Slavic Studies (SLAV) courses of which at least 3 credit hours must be in literature/culture		
NOTES:			
With written consent from the department head, courses offered by other departments may be approved for credit.			
The following courses count as language courses: UKRN 1230, UKRN 1310, UKRN 1320, UKRN 2260, UKRN 2720, UKRN 2730, <del>UKRN-3700</del> , UKRN 3950, UKRN 3960.			
The following courses count as literature and culture courses: <del>UKRN 2100, UKRN 2200, UKRN 2410, UKRN-2420, UKRN-2430, UKRN-2510, UKRN-2520, UKRN 2590, UKRN 2770, UKRN 2780, UKRN 2800, UKRN 2820, UKRN 3100, UKRN 3300, UKRN 3440, UKRN-3670, UKRN 3840, UKRN-3850, UKRN 3880, UKRN 3910, UKRN 3970, SLAV 2240, SLAV 2250, SLAV 2260, SLAV 2270, SLAV-3520, SLAV 3530, SLAV 3920.</del>			

**Polish**  
**2011-2012 Undergraduate Calendar**  
**- Revisions to Minor Program**

Added material  
~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>POLISH MINOR (CONCENTRATION)<sup>1</sup> TOTAL: 18 CREDIT HOURS</b>			
POL 1890	POL 2890	6 credit hours from the following Polish/Slavic Studies courses: POL 1900, POL 2600, POL 2610, POL 2660, <del>POL-2320</del> , <del>POL-2530</del> , POL 2690, POL 3890, SLAV 2260, SLAV 2270	
<b>NOTES:</b>  <sup>1</sup> Students entering university with a knowledge of Polish, but without Grade 12 standing, may be granted written permission by the department head to enter POL 2890.			

## Global Political Economy

Program modifications:

The Program is proposing modifications to the required courses for the General Major and Advanced Major.

ANTH 2530 (3) will be deleted from the List of Suggested Electives.

Added material  
~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>GENERAL MAJOR TOTAL: 60 CREDIT HOURS</b>			
<ul style="list-style-type: none"><li>• Anthropology: <del>ANTH 2000</del>ANTH-2390; <u>ANTH 2530</u>; ANTH 3320 or Sociology SOC 3810</li><li>• Economics: ECON 1010 and ECON 1020, or ECON 1210 and ECON 1220; ECON 2540; ECON 2550; ECON 2630, or ECON 3392 and ECON 3394</li><li>• History: 12 credit hours from: HIST 1370, HIST 1380, HIST 1500, HIST 2380, HIST 2720</li><li>• Political Studies: 6 credit hours from: POLS 1000, POLS 1010, POLS 1040, POLS 1070, POLS 1500; POLS 2040</li><li>• Sociology: SOC 1200; SOC 3380 or SOC 3838 or SOC 3840 or SOC 3890 or Anthropology ANTH 2500; SOC 3810 or Anthropology ANTH 3320</li></ul>			
<b>ADVANCED MAJOR TOTAL: 78 CREDIT HOURS</b>			
<ul style="list-style-type: none"><li>• Anthropology: <del>ANTH 2000</del>ANTH-2390; <u>ANTH 2530</u>; ANTH 3320 or Sociology SOC 3810; ANTH 3750</li><li>• Economics: ECON 1010 and ECON 1020, or ECON 1210 and ECON 1220; ECON 2540; ECON 2550; ECON 2630, or ECON 3392 and ECON 3394</li><li>• Global Political Economy: GPE 2700; GPE 4700</li><li>• History: 12 credit hours from: HIST 1370, HIST 1380, HIST 1500, HIST 2380, HIST 2720</li><li>• Political Studies: 6 credit hours from: POLS 1000, POLS 1010, POLS 1040, POLS 1070, POLS 1500; POLS 3220; POLS 3250 or POLS 3840</li><li>• Sociology: SOC 1200; SOC 2290; SOC 3380 or SOC 3838 or SOC 3840 or SOC 3890 or Anthropology ANTH 2500; SOC 3810 or Anthropology ANTH 3320</li></ul>			

## History

Introduction:

HIST 3990 Seminar in Selected History Topics (G) Cr.Hrs. 6 +6

This course will provide a systematic introduction to advanced research seminars, paying particular attention to the development of: oral skills and public presentation of ideas and research; focused historiographical discussion and analysis; and advanced historical research and writing skills. This course provides the skills and preparation for Year IV of the History Honours Program. Prerequisite: [a grade of "C" or better in six credit hours of History] and written consent of department head.

**NET CHANGE IN CREDIT HOURS: +6**

Program modification:

The Department is proposing modifications to the Honours Single and Honours Double Programs.

Added material

~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS SINGLE<sup>1,2,3,4</sup></b>			
6 credit hours in History courses numbered at the 1000 or 2000 level  or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level	<ul style="list-style-type: none"> <li>18 credit hours in History courses numbered at the 2000 level</li> </ul> or 12 credit hours in History courses numbered at the 2000 level and 6 credit hours in History courses numbered at the 3000 level <ul style="list-style-type: none"> <li>12 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li><del>HIST 3990</del></li> <li>6 credit hours in History courses numbered at the 3000 level</li> <li><del>12 credit hours in History courses numbered at the 4000 level</del></li> <li>6-12 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li><del>18-24 credit hours in History courses numbered at the 4000 level, including presentation of an Honours Paper prepared in conjunction with one of the History courses<sup>2</sup> numbered at the 4000 level</del></li> <li><del>6 credit hours in ancillary options</del></li> </ul>
Honours students must choose from a minimum of three different defined areas of historical study.			
<b>HONOURS DOUBLE<sup>1,2,3,4</sup></b>			
6 credit hours in History courses numbered at the 1000 or 2000 level  or 3 credit hours in History courses numbered at the 1000 level and 3 credit hours in History courses numbered at the 2000 level	<ul style="list-style-type: none"> <li>12 credit hours in History courses numbered at the 2000 level</li> </ul> or 6 credit hours in History courses numbered at the 2000 level and 6 credit hours in History courses <ul style="list-style-type: none"> <li>12 credit hours in other Honours field</li> <li>6 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li><del>HIST 3990</del></li> <li>6 credit hours in History courses numbered at the 3000 level</li> <li><del>6 credit hours in History courses numbered at the 4000 level</del></li> <li>12 credit hours in other Honours field</li> </ul>	<ul style="list-style-type: none"> <li>12 credit hours in History courses numbered at the 4000 level, including presentation of an Honours Paper prepared in conjunction with one of the History courses<sup>2</sup> numbered at the 4000 level</li> <li>12 credit hours in other Honours field</li> </ul>
Honours students must choose from a minimum of three different defined areas of historical study.			
<b>NOTES:</b>  <sup>1</sup> Students, particularly those intending to proceed to a graduate program, are encouraged to study a second language during the course of their Honours program.  <sup>2</sup> Details of the Year 4 Honours paper are available from the head of the History department.  <sup>2,3</sup> Ancillary options are courses taken from outside the Honours field of study.  <sup>2,4</sup> Honours courses: all 4000 level courses.			

## Judaic Studies

Deletion:

ARA 2260 Elementary Arabic Cr.Hrs. 6

-6

Introductions:

ARA 1000 Elementary Arabic Cr.Hrs. 6

+6

(Lab required) An introductory course in written and oral Arabic, for students with little or no previous knowledge of the language. Language laboratory exercises will be included in addition to class time. Students may not hold credit for ARA 1000 and any of: the former ARA 2260 or



the former SEM 2260 (055.226). Not open to students who have previously obtained credit in ARA 2000. Prerequisite: written consent of instructor.

ARA 2000 Intermediate Arabic Cr.Hrs. 6 +6  
(Lab required) This intermediate class will improve writing, reading, conversation and listening comprehension for everyday Arabic, and cover many of the important grammatical features of the language. By the end of this course, the learner should be able to communicate in many situations with fluency or near fluency. Prerequisite: [a grade of "C" or better in ARA 1000 or the former ARA 2260 or the former SEM 2260 (055.226)] or written consent of instructor.

JUD 3010 Topics in Jewish Studies Cr.Hrs. 3 +3  
An opportunity for the study of selected topics or themes in Jewish Studies. Consult the Judaic Studies Program office or website for details. As course content will vary from year to year, students may take this course more than once for credit.

### **NET CHANGE IN CREDIT HOURS: +9**

Program modification:

Modification to List A, Courses Acceptable for Judaic Studies Credit to add the following courses: UKRN 2820 Holodomor and Holocaust in Ukrainian Literature and Culture (3), and RLGN 2140 Introduction to Judaism (3).

### Labour Studies

Introduction:

LABR 3400 Racism and Work Cr.Hrs. 3 +3  
This course explores three central questions: What are racism and colonialism? How do racism and colonialism shape work in Canada? What strategies exist for combating racism at work, and which are most effective? Students may not hold credit for both LABR 3400 and LABR 3110 when titled "Racism and Work". Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

Modification:

LABR 3200 Workers' Self-Management Cr. Hrs. 3  
(formerly 153.320) An examination of historical and contemporary examples of self-managed workplaces and the theory of a participatory economy based on workers' self-management. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Labour Studies] or written consent of the Labour Studies coordinator.

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

### Native Studies

Deletion:

NATV 2270 Intermediate Ojibway Cr.Hrs. 6 -6

#### Introductions:

NATV 2030 Working with Aboriginal Elders Cr.Hrs. 3 +3

This course provides an opportunity for students to develop culturally relevant community service skills in Native Studies and to acquire an understanding of traditional teachings by Elders from the Cree and Ojibway traditions. The course includes participation in the annual Elders and Traditional Teachers Gathering conference. Students may not hold credit for both NATV 2030 and NATV 2000 when titled "Working with Elders." Prerequisite: [a grade of "C" or better in NATV 1200 (032.120)] or [a grade of "C" or better in both NATV 1220 (032.122) and NATV 1240 (032.124)] or written consent of instructor or department head.

NATV 2722 Intermediate Ojibway 1 Cr.Hrs. 3 +3

This course is a continuation of Introductory Ojibway 1 and 2 and the entry-level course for fluent speakers. It focuses on development of conversational fluency, Ojibway orthography, composition and translation. Students may not hold credit for both NATV 2722 and the former NATV 2270 (032.227). Prerequisite: [a grade of "C" or better in both NATV 1270 (032.127) and NATV 1280 (032.128)] or [Matriculation Ojibway] or written consent of instructor or department head.

NATV 2724 Intermediate Ojibway 2 Cr.Hrs. 3 +3

This course is a continuation of Intermediate Ojibway 1. It focuses on the further development of conversational fluency, Ojibway orthography, and translation and also offers an introduction to the linguistic structure of Ojibway. Students may not hold credit for both NATV 2724 and the former NATV 2270 (032.227). Prerequisite: [a grade of "C" or better in NATV 2722] or written consent of instructor or department head.

#### Modifications:

NATV 2310 Ojibway Literature Cr.Hrs. 3

(formerly 032.231) A survey of Ojibway (Eastern, Western, Chippewa, Saulteaux, Odawa, others) literature based on the extensive study of particular texts in cultural, historical and spiritual contexts. Prerequisite: [a grade of "C" or better in both NATV 2272 and NATV 2274] or [a grade of "C" or better in both NATV 1220 (032.122) and NATV 1240 (032.124)] or [a grade of "C" or better in NATV 1200 (032.120) or the former NATV 2270 (032.227)] or written consent of department head.

NATV 2330 Structure of the Ojibway Language Cr.Hrs. 3

(formerly 032.233) a detailed structural analysis of Ojibway with special attention to the problem of dialect variation and to the contrastive analysis of Ojibway and English. Prerequisite: [a grade of "C" or better in both NATV 2272 and NATV 2274] or [a grade of "C" or better in the former NATV 2270 (032.227)] or written consent of department head.

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

#### Program modifications:

The Department is proposing modifications to the Native Languages Minor Program, the Native Studies Program Notes, and the Native Studies Advanced Major – Aboriginal Governance Stream with required Minor in Business. See the following pages for details.

- Revisions to Native Languages Minor (Option 1 and Option 2)
- Program Notes

Added material

~~Deleted material~~

#### Minor (Concentration) Program

##### B) Native Languages

For entry to the Minor (Concentration), the prerequisite is a grade of "C" or better in both NATV 1250 and NATV 1260, ~~or~~ "C" or better in both NATV 1270 and NATV 1280, ~~or~~ "C" or better in NATV 2250, and both NATV 2272 and NATV 2274 (the former NATV 2270).

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>NATIVE LANGUAGES MINOR (CONCENTRATION)<sup>5</sup> (OPTION 1) TOTAL: 18 CREDIT HOURS</b>			
NATV 1250 and NATV 1260, or NATV 1270 and NATV 1280	NATV 2250, or <u>both NATV 2272 and NATV 2274</u> <del>NATV-2270</del>	NATV 2300 and NATV 2320, or NATV 2310 and NATV 2330, or 6 credit hours approved by the department <sup>3,4</sup>	
<b>NATIVE LANGUAGES MINOR (CONCENTRATION)<sup>5</sup> (OPTION 2) TOTAL: 18 CREDIT HOURS</b>			
NATV 2250, or <u>both NATV 2272 and NATV 2274</u> <del>NATV-2270</del>	NATV 2300 and NATV 2320, or NATV 2310 and NATV 2330	6 credit hours in Native languages or 6 credit hours approved by the department <sup>3,4</sup>	
<b>NOTES:</b>  The following courses count as Native Language courses: NATV 1250, NATV 1260, NATV 1270, NATV 1280, NATV 1290, NATV 2250, <u>NATV 2272, NATV 2274, NATV-2270</u> , NATV 2300, NATV 2310, NATV 2320, NATV 2330 and NATV 3300.  <sup>1</sup> Students may substitute up to 12 credit hours from the approved cross-listed courses and/or 12 hours of Native Language courses numbered at the 1000 or 2000 level in lieu of Native Studies but must have six credit hours in Native Studies or Native Languages courses offered by Native Studies numbered at the 3000 level or above.  <sup>2</sup> Students may substitute up to six credit hours from the list of approved courses and/or six hours of Native Language courses in lieu of Native Studies courses.  <sup>3</sup> No more than 12 credit hours may be taken from NATV 1200, NATV 1220, NATV 1240, NATV 1250, NATV 1260, NATV 1270, NATV 1280, NATV 2250, <u>NATV 2272, NATV 2274</u> <del>NATV-2270</del> .  <sup>4</sup> Six credit hours may be from related linguistics courses approved by the department.  <sup>5</sup> Students who wish to declare a Minor should consult with the department head.			

## Native Studies Aboriginal Governance Stream

### - Revisions to Advanced Major with Required Minor in Business

Added material

~~Deleted material~~

#### Major Program

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

For students who have taken additional courses toward the Major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

#### Minor Program

For entry to the required Minor in Business for students who wish the Aboriginal Governance Stream, the prerequisite is 6 credit hours from ACC 1100, ~~ACC 1110~~, ~~FIN 2200~~, GGMT 2030, ~~GGMT 3300~~, HRIR 2440, ~~MIS 2000~~ or MKT 2210 with a grade of "C" or better in each.

For information on this program contact the Department of Native Studies.

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>NATIVE STUDIES ADVANCED MAJOR</b> ABORIGINAL GOVERNANCE STREAM-WITH-REQUIRED-MINOR-IN-BUSINESS TOTAL: 51 CREDIT HOURS			
NATV 1200 or NATV 1220 and NATV 1240	<ul style="list-style-type: none"> <li>• NATV 2220, NATV 3120, NATV 3310, NATV 3350, NATV 4200, NATV 4320</li> <li>• 3 credit hours in courses offered by Native Studies numbered at the 3000-level</li> <li>• 3 credit hours in courses offered by Native Studies numbered at the 4000-level</li> <li>• 15 credit hours in courses offered by Native Studies<sup>†</sup></li> <li>• Additional courses required for purposes of completing the governance stream are</li> </ul> <p>Faculty of Arts</p> <p>Economics—ECON 1010 and ECON 1020</p> <p>Political Studies—POLS 2070 and POLS 4150</p> <p>Faculty of Science</p> <p>Computer Science—COMP 1260</p> <p>Statistics—STAT 1000</p> <ul style="list-style-type: none"> <li>• <u>ECON 1010 or ECON 1210 or ECON 1220</u></li> </ul>		

	<ul style="list-style-type: none"> <li>• <u>NATV 2110, POLS 2070, STAT 1000</u></li> <li>• <u>12 credit hours from Political Governance courses: NATV 2220, NATV 3310, NATV 3280, NATV 3370, NATV 4200, POLS 4150</u></li> <li>• <u>12 credit hours from Aboriginal Business and Economics courses: NATV 3120, NATV 3160, NATV 3350, NATV 4320</u></li> <li>• <u>6 credit hours from Traditional Knowledge courses: NATV 2030, NATV 3330, NATV 4220, NATV 4230</u></li> </ul>
<b>REQUIRED MINOR IN BUSINESS FOR THOSE STUDENTS IN A DECLARED ABORIGINAL GOVERNANCE STREAM<sup>12</sup> TOTAL: 18 CREDIT HOURS</b>	
ACC 1100, <del>ACC 1110</del> , FIN 2200, GGMT 2030, GGMT 3300, HRIR 2440, MIS 2000, MKT 2210	6 credit hours from: <u>ACC 1110, COMP 1260, ENTR 2010, ENTR 2020, GGMT 2010, GGMT 3300, LEAD 2010, FIN 2200, ENTR 3100, FIN 3470, GGMT 2000, HRIR 4410, MIS 2000</u>
<b>NOTES:</b>  The following courses count as Native Language courses: <u>NATV 1250, NATV 1260, NATV 1270, NATV 1280, NATV 1290, NATV 2250, NATV 2270, NATV 2300, NATV 2310, NATV 2320, NATV 2330 and NATV 3300.</u>  <sup>1</sup> Students may substitute up to six credit hours from the list of approved courses and/or six hours of Native Language courses in lieu of Native Studies courses.  <sup>12</sup> Students must ensure that all course prerequisites are met when selecting courses for the Minor.	

## Psychology

### Introduction:

PSCY 4492 Psychology of Addiction Cr.Hrs. 3

+3

This course will introduce the psychology of addictive disorders, including their history, prevalence and incidence, and basic drug actions. It will also survey research on biological, psychological, and social factors that contribute to the development and maintenance of addictive disorders. Students may not hold credit for both PSYC 4492 and PSYC 4540 (017.454) when titled "Introduction to the Psychology of Addiction". Prerequisite: written consent of department head.

### Modification:

PSYC 3390 Thinking Cr.Hrs. 3

(formerly 017.339) The class surveys work in cognitive science. Topics include probabilistic reasoning, heuristics and biases, artificial neural networks, mental representation of number, and the cognitive unconscious. Prerequisite: [a grade of "C" or better in PSYC 1200 (017.120) or PSYC 1201 (017.120)] or [a grade of "C" or better in both PSYC 1211 (017.121) and PSYC 1221 (017.122)] or written consent of department head.

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

## Religion

### Introductions:

RLGN 1424 Religion and Sexuality (B) Cr.Hrs. 3 +3

An introduction to world religions through the lens of sexuality, exploring how sexual desires and practices are celebrated, regulated, imagined and constructed in different religions. Topics may include pleasure, procreation, sexual and gender identities, marriage, asceticism, erotic imagery of divine beings and divine-human relations.

RLGN 2140 Introduction to Judaism (A) Cr.Hrs. 3 +3

An exploration of Jewish religious experience: the rhythms of time, the sensory life, sacred texts, collective memory, rules and resistance to rules. The course will introduce Jewish ways of learning, and consider Judaism as a test case for concepts in religious studies, including "religion" itself.

RLGN 2036 Introduction to Christianity (A) Cr.Hrs. 3 +3

This course provides an introduction to the history of Christianity from its earliest beginnings to the present. It will also focus on Christianity's main ideas and practices. Students will also be introduced to key concepts and debates in the study of religion using Christianity as a test case.

**NET CHANGE IN CREDIT HOURS: +9**

Program modification:

- **Revision to Program Notes**

Added material

~~Deleted material~~

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS SINGLE<sup>1, 2, 3</sup></b>			
6 credit hours in Religion courses	<ul style="list-style-type: none"> <li>• 18 credit hours in Religion courses numbered at the 2000 level</li> <li>• 12 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li>• 12 credit hours in Religion courses numbered at the 3000 level</li> <li>• 6 credit hours in Religion courses numbered at the 4000 level</li> <li>• 6 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li>• 18 credit hours in Religion courses numbered at the 4000 level</li> <li>• 6 credit hours in ancillary options</li> </ul>
<b>HONOURS DOUBLE<sup>1, 2, 3</sup></b>			
6 credit hours in Religion courses	<ul style="list-style-type: none"> <li>• 12 credit hours in Religion courses numbered at the 2000 level</li> <li>• 12 credit hours in other Honours field</li> <li>• 6 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li>• 6 credit hours in Religion courses numbered at the 3000 level</li> <li>• 6 credit hours in Religion courses numbered at the 4000 level</li> <li>• 12 credit hours in other Honours field</li> </ul>	<ul style="list-style-type: none"> <li>• 12 credit hours in Religion courses numbered at the 4000 level</li> <li>• 12 credit hours in other Honours field</li> </ul>
<p><b>NOTES:</b></p> <p><sup>1</sup> Honours students will be expected to obtain six credit hours in each of the study areas B and C. In addition, for purposes of the Honours program, study area A is divided into two parts: (a) Bible and (b) the history of Western religion. Normally an Honours student will be expected to obtain six credit hours in each of those two parts.</p> <p><u>The following courses satisfy Western Religious Traditions (A - Bible):</u> RLGN 1120, RLGN 1390, RLGN 1400, RLGN 2150, RLGN 2160, RLGN 2170, RLGN 2760, RLGN 3200, RLGN 3240, RLGN 3780, RLGN 3800, RLGN 3824, RLGN 3830.</p> <p><u>The following courses satisfy Western Religious Traditions (A - History of Western Religion):</u> RLGN 1350, RLGN 2036, RLGN 2040, RLGN 2050, RLGN 2140, RLGN 2520, RLGN 2530, RLGN 2550, RLGN 2560, RLGN 2640, RLGN 2730, RLGN 2770, RLGN 2840, RLGN 2850, RLGN 3280, RLGN 3570, RLGN 3640, RLGN 3870, RLGN 4130, RLGN 4140, RLGN 4150, RLGN 4200, RLGN 4280.</p> <p><sup>2</sup> Ancillary options are courses taken from outside the Honours field of study.</p> <p><sup>3</sup> Honours courses: all 4000 level courses.</p>			

Ukrainian Canadian Heritage Studies

Program modifications:

Modification to List B to indicate the following courses as no longer offered: UKRN 2420 Ukrainian Canadian Literature (3), and UKRN 2430 Ukrainian Canadian Folklore (3).

Modification to List C to indicate the following course as no longer offered: UKRN 3700 Church Slavic: Ukrainian Version (3).

## Women's and Gender Studies

### Deletion:

WOMN 361 Dream Girls, Show Girls, Riot Grrls Cr.Hrs. 3 -3

### Introduction:

WOMN 3100 Sex Work in Contemporary Canadian Culture Cr.Hrs. 3 +3  
This course examines cultural linkages between femininity and prostitution in the context of contemporary Canadian culture. The course begins by considering historical cultural and feminist discourses about sex work and sex workers. Keeping in mind that the actual exchange of sexual services for money is currently legal in Canada, course discussions will interrogate enduring representations of sex work/ers. The course also examines some prostitution-related legislation, ideological and "real world" linkages between violence and prostitution, and ongoing activism that reinforce or resist negative representations and the violent realities of sex work/ers in Canada today. Students may not hold credit for both WOMN 3100 and WOMN 2540 with the topic "Sex Work in Contemporary Canadian Culture". Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's and Gender Studies courses] or written consent of the Women's and Gender Studies coordinator.

### **NET CHANGE IN CREDIT HOURS: 0**

## Faculty of Dentistry

### Introductions:

DDSS 2100 Periodontology – 2 Cr.Hrs. 2 +2  
An introductory course with emphasis on periodontal structures in health and disease, the etiology and diagnosis of periodontal disease, as well as the role of occlusion. May not be held with DDSS 2120.

DDSS 2110 Radiology – 2 Cr.Hrs. 1 +1  
A series of lectures in theoretical and practical principles of radiographic interpretation of common oral pathologic conditions as well as selected examples of pathologic conditions exhibiting important radiographic principles. May not be held with DDSS 2180.

DDSS 2122 Oral Pathology Cr.Hrs. 5 +5  
A series of lectures emphasizing recognition, description, etiopathogenesis, clinical and/or radiographic features, biologic behaviour, treatment and/or management of oral and paraoral pathologic conditions. May not be held with DDSS 2010.

DDSS 2130 Pain and Anxiety Control Cr.Hrs. 1 +1  
A series of lectures to introduce the student to: local anaesthetics, local anaesthesia techniques, avoidance and management of complications and selection of appropriate drugs and techniques. May not be held with DDSS 2020.

DENT 2202 Introduction to Comprehensive Care Cr.Hrs. 4 +4  
This course is an introduction to an integrated, patient-centred program with patient needs as the primary focus. The course introduces students to clinical protocol and patient record documentation and communication. Students receive experience in comprehensive treatment



planning as well as basic treatments in periodontics, operative dentistry, and pain control. Course evaluated on a pass/fail basis. May not be held with DENT 2430.

ORLB 2300 Pathology and Microbiology – 1 Cr.Hrs. 1 +1  
Study of the basic mechanisms of microbial pathogenicity and general pathology as they relate to dentistry and dental treatment. Includes the pathogenesis of bacterial, viral and fungal infections and the aetiology of neoplastic, inflammatory and metabolic diseases. May not be held with ORLB 2100.

ORLB 2320 Cardiology and Plaque Associated Diseases Cr.Hrs. 3 +3  
A study of the various dietary, host and microbial factors involved in the etiology of dental caries and periodontal disease, and a discussion of the various methods of plaque control. May not be held with ORLB 2090.

ORLB 2312 Structure and Function of Major Organ Systems Cr.Hrs. 4 +4  
This course emphasizes the basic structure at both organ and cellular levels of a number of organ systems and an understanding of their role in total body function. May not be held with ORLB 2070.

ORLB 2330 Nutrition in Dentistry Cr.Hrs. 2 +2  
The course covers the role of nutrition in general health and disease with emphasis on the prevention and management of oral problems in Dentistry. May not be held with ORLB 2150.

PDSD 2400 Orthodontics – 2 Cr.Hrs. 2 +2  
A series of lectures and laboratories to introduce the student to: clinical protocol for examination, diagnosis and treatment planning of malocclusions, concepts of occlusion and biomechanics of orthodontic therapy, and fabrication of orthodontic appliances. May not be held with PDSD 2020.

PDSD 2410 Pediatric Dentistry – 1 Cr.Hrs. 3 +3  
A series of lectures and laboratories to introduce the student to: the fundamental principles of dental growth and development of children, introduction to operative dentistry and preventive techniques commonly used in dentistry for children. May not be held with PDSD 2070.

PDSD 2420 Dental Public Health Cr.Hrs. 1 +1  
A series of lectures dealing with dental epidemiology, demography, water fluoridation, and dental health education, program planning and evaluation. The organization of the Canadian health care system is examined with special reference to dental care and Aboriginal health issues. May not be held with PDSD 2130.

RSTD 2502 Dental Materials – 2 Cr.Hrs. 2 +2  
This course develops a scientific basis for the selection, application, manipulation and clinical performance of dental materials. The relationship between the properties of a material and its manipulation, application and clinical behaviour is developed. May not be held with RSTD 2020.

RSTD 2510 Operative Dentistry – 2 Cr.Hrs. 3 +3  
A lecture and laboratory course presenting modern and advanced techniques in tooth restoration. Composite resins, adhesion to tooth structure, esthetic restorations and protection of tooth vitality. Introduction to clinical treatment modalities and treatment priorities. May not be held with RSTD 2050.

RSTD 2520 Endodontology – 1 Cr.Hrs. 2 +2

Introduction to root canal therapy as a clinical practice, pulp and periapical pathology. The majority of the teaching is directed at the understanding and actual performance of practical endodontic techniques, performed in the laboratory setting on mannequins using extracted human teeth. May not be held with RSTD 2060.

RSTD 2532 Fixed Prosthodontics – 1 Cr.Hrs. 6 +6

This course consists of lecture and laboratory instruction introducing basic fixed prosthodontic techniques. May not be held with RSTD 2140.

RSTD 2540 Removable Partial Denture Prosthodontics Cr.Hrs. 3 +3

The didactic portion of this course presents the principles for the treatment of partially edentulous patients. The procedures and techniques founded on the basic principles make up the laboratory exposure. May not be held with RSTD 2220.

RSTD 2552 Complete Denture Prosthodontics Cr.Hrs. 4 +4

The didactic portion of this course presents the principles for the treatment of edentulous patients. Emphasis is placed on techniques of treatment in the laboratory component. May not be held with RSTD 2230.

#### **NET CHANGE IN CREDIT HOURS: +49**

##### Faculty of Engineering

Deletion:

ENG 4010 Practicing Professional Engineering in Manitoba Cr.Hrs. 3 -3

Introduction:

ENG 4020 Professional Engineering Practice in Manitoba Cr.Hrs. 4 +4

An introduction to the practice of professional engineering in Manitoba. Professional culture, organization and regulation; industry topics; engineering ethics and law. Emphasis on professional communication development. Restricted to students enrolled in the IEEQ Program. May not be held with the former ENG 4010.

#### **NET CHANGE IN CREDIT HOURS: +1**

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

##### Environment and Geography

Deletions:

GEOG 3710 Population and the Third World Cr.Hrs. 3 -3

GEOG 3720 Refugees, Displacees, Exiles Cr.Hrs. 3 -3

#### Introductions:

GEOG 3330 Population Issues in the Developing World (HS) Cr.Hrs. 3 +3  
This course examines issues and trends in population growth, change, and movement in the global south dominated by developing countries. Prerequisites: GEOG 2330(C), or SOC 2480(C), or (GEOG 2480)(C), or permission of department head.

GEOG 3340 Migration and Mobility in a Globalized World (HS) Cr.Hrs. 3 +3  
This course surveys the geographic dimensions of migration and mobility of populations, with emphasis of contemporary events. Prerequisites: GEOG 2330(C), or (GEOG 2480)(C), or permission of department head.

#### Modifications:

ENVR 3250 Environmental Assessment Cr.Hrs. 3  
(Lab required) (formerly 128.325) This course examines the theory, principles and practices of environmental assessment as a planning and decision-making process to identify and mitigate adverse effects of development projects. Environmental assessment is defined in a context of federal and provincial legislation, and applicable standards and guidelines. Laboratory assignments involve practical experiences, case study review and basic report preparation. Prerequisites [ABIZ 3550 (C) or ENVR 3160 or (ENVR 3150)(C)] and [BIOL 2300 or (BOTN 2370 or BOTN 2371 or ZOOL 2370 or ZOOL 2371 (C)), or AGECE 2370 (C)], or permission of department head.

ENVR 4650 Advanced Issues in Environmental Law and Policy Cr.Hrs. 3  
This course provides an in-depth review of Canadian law and policy relating to environmental protection and management. In particular, the course describes the laws governing a variety of topics related to the environment, including constitutional responsibilities, federal and provincial environmental legislation, water law, parks and protected areas, wildlife and fisheries management, species at risk, and international law including climate change. Prerequisite: ENVR 3150(C) or (ENVR 2650)(C) or permission of department head.

GEOG 3870 Food Geographies (HS) Cr.Hrs. 3  
This course provides a critical examination of the geographies of food at a variety of scales, from the body to the global. The course focuses on themes in three interconnected areas: 1) food production and the global food system from farm to plate including agribusiness and alternative food production and distribution models; 2) food consumption habits and beliefs and foodways as geographically contingent material culture; and 3) food (in)security and its relationship to health and well-being. This course is cross-listed as HNSC 3870. Prerequisite: GEOG 1280(C) or GEOG 1281(C) or HNSC 1200(C) or (GEOG 1200)(C), or permission of department head.

GEOG 4590 Spatial Analysis Cr.Hrs. 3  
(formerly 053.459) The theory and techniques of spatial statistical data exploration, inference and hypothesis testing as they pertain to geography analysis are explored. The role of spatial analytical techniques in field investigations, GIS and remote sensing applications are discussed. Prerequisites: [GEOG 3810 or (GEOG 3680)(C)], and [MATH 1300 or MATH 1301 (136.130) or MATH 1500 or MATH 1501 (136.150)(C)], or permission of department head.

**NET CHANGE IN CREDIT HOURS: 0**

Program modifications:

In the Bachelor of Environmental Science and the Bachelor of Environmental Studies programs, ECON 1010 – Introduction to Microeconomic Principles will be added as a required course.

## 7.5 Bachelor of Environmental Science Program Chart

7.5 Bachelor of Environmental Science <sup>1,2</sup>			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 <sup>3</sup> , STAT 1000, <a href="#">ECON 1010</a>  Plus 6 credit hours from the Faculty of Arts <sup>4</sup>	ENVR 2270 <sup>8</sup> , ENVR 3160 <sup>9</sup> , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 <sup>5</sup> , STAT 2000  One of PHYS 1030 <sup>5</sup> , MATH 1200, MATH 1300 <sup>6</sup> , MATH 1700 <sup>6</sup>  One of GEOG 1290 or GEOL 1340 (or GEOL 1440)	ENVR 4110, ENVR 4500  Plus 33 credit hours in an approved Focus Area <sup>7</sup>	
It is recommended that students complete the W course in University 1 or Year 2			
<b>HONOURS COOPERATIVE OPTION 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 <sup>3</sup> , STAT 1000, <a href="#">ECON 1010</a>  Plus 6 credit hours from the Faculty of Arts <sup>4</sup>	ENVR 2270 <sup>8</sup> , ENVR 3160 <sup>9</sup> , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 <sup>5</sup> , STAT 2000, ENVR 2900  One of PHYS 1030 <sup>5</sup> , MATH 1200, MATH 1300 <sup>6</sup> , MATH 1700 <sup>6</sup>  One of GEOG 1290 or GEOL 1340 (or GEOL 1440)	ENVR 4110, ENVR 4500  Plus 33 credit hours in an approved Focus Area <sup>7</sup>  ENVR 3900, ENVR 3980, ENVR 3990, ENVR 3910, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional)	
It is recommended that students complete the W course in University 1 or Year 2			
<b>MAJOR 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 <sup>3</sup> , STAT 1000, <a href="#">ECON 1010</a>  Plus 6 credit hours from the Faculty of Arts <sup>4</sup>	ENVR 2270 <sup>8</sup> , ENVR 3160 <sup>9</sup> , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 <sup>5</sup> , STAT 2000  One of PHYS 1030 <sup>5</sup> , MATH 1200, MATH 1300 <sup>6</sup> , MATH 1700 <sup>6</sup>  One of GEOG 1290 or GEOL 1340 (or GEOL 1440)	ENVR 4110  Plus 33 credit hours in an approved Focus Area <sup>7</sup>	
It is recommended that students complete the W course in University 1 or Year 2			

MAJOR COOPERATIVE OPTION 120 CREDIT HOURS		
ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 <sup>3</sup> , STAT 1000, <b>ECON 1010</b>  Plus 6 credit hours from the Faculty of Arts <sup>4</sup>	ENVR 2270 <sup>8</sup> , ENVR 3160 <sup>8</sup> , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 <sup>5</sup> , STAT 2000, ENVR 2900  One of PHYS 1030 <sup>5</sup> , MATH 1200, MATH 1300 <sup>6</sup> , MATH 1700 <sup>6</sup>  One of GEOG 1290 or GEOL 1340 (or GEOL 1440)	ENVR 4110  Plus 33 credit hours in an approved Focus Area <sup>7</sup>  ENVR 3900, ENVR 3980, ENVR 3990, ENVR 3910, ENVR 3920 (ENVR 4980 and ENVR 4910 are optional)
It is recommended that students complete the W course in University 1 or Year 2		
GENERAL 90 CREDIT HOURS		
ENVR 1000, ENVR 2000, BIOL 1020, BIOL 1030, CHEM 1300, CHEM 1310, MATH 1500 <sup>3</sup> , STAT 1000, <b>ECON 1010</b>  Plus 6 credit hours from the Faculty of Arts <sup>4</sup>	ENVR 2270 <sup>8</sup> , ENVR 3160 <sup>8</sup> , BIOL 2300 (or AGECE 2370), ECON 2390 (ABIZ 2390), PHYS 1020 <sup>5</sup> , STAT 2000  One of PHYS 1030 <sup>5</sup> , MATH 1200, MATH 1300 <sup>6</sup> , MATH 1700 <sup>6</sup>  One of GEOG 1290 or GEOL 1340 (or GEOL 1440)	ENVR 4110  Plus 9 credit hours in an approved Focus Area
MINOR 18 CREDIT HOURS		
ENVR 1000, ENVR 2000	12 credit hours of ENVR courses number at the 2000-level or above.	
<b>NOTES:</b>		
<sup>1</sup> Entrance into the degree programs is summarized in section 7.2.1 of this <i>Chapter</i> .		
<sup>2</sup> The courses required in this program will satisfy the university mathematics requirements.		
<sup>3</sup> MATH 1510 or MATH 1520 may be taken in place of MATH 1500 (or equivalent).		
<sup>4</sup> It is recommended that students consider a selection from List A below when selecting courses from the Faculty of Arts.		
<sup>5</sup> PHYS 1050 and PHYS 1070 may be used in lieu of PHYS 1020 and PHYS 1030, respectively.		
<sup>6</sup> MATH 1310 and MATH 1710 may be taken in place of MATH 1300 and MATH 1700 (or equivalent), respectively.		
<sup>7</sup> Focus Area courses must include a minimum of 21 credit hours at the 3000- and/or 4000-level. Focus Area performance requirements are defined in section 7.3 of this <i>Chapter</i> . Information on Focus Areas is available in the Focus Area Brochure.		

<sup>8</sup>ENVR 2170 may be used in lieu of ENVR 2270.

<sup>9</sup>ENVR 2650 may be used in lieu of ENVR 3160.

**IMPORTANT:** The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

**NOTE:**

- To fulfil prerequisite requirements, a grade of 'C' must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course.
- Students should review the current course topics available through *ENVR 2010* (1.5), *ENVR 2020* (3), *ENVR 3000* (3), *ENVR 3010* (1.5), *ENVR 3020* (3), *ENVR 4000* (3), *ENVR 4010* (1.5), and *ENVR 4020* (3) as well as those offered through *GEOG 3740* (6), *GEOG 3750* (3), *GEOG 3760* (6), *GEOG 3770* (3) and *GEOG 4670* (3). Also, all courses are not offered every year or every term. The course schedule for the current academic term is available from the **Class Schedule**.
- Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the Department of Environment and Geography general office.
- Equivalent courses offered through Collège universitaire de Saint-Boniface may be used in lieu of the specified course identified in the program requirements chart. Collège universitaire de Saint-Boniface courses end in the number '1' (e.g. CHEM 1301).



## 7.6 Bachelor of Environmental Studies Program Chart

7.6 Bachelor of Environmental Studies <sup>1,2</sup>			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, GEOG 1280 <sup>3</sup> , GEOG 1290 <sup>3</sup> , NATV 1220 <sup>4</sup> , BIOL 1010 <sup>5</sup> , STAT 1000, <b>ECON 1010</b>  Plus 3 credit hours from the Faculty of Arts <sup>6</sup>	ENVR 2350, ENVR 3160 <sup>9</sup> , ECON 2390 (ABIZ 2390), BIOL 2390 <sup>5</sup>  Plus 3 credit hours from List B <sup>7</sup>	GEOG 3810 <sup>10</sup> , ENVR 4110, ENVR 4500  Plus 33 credit hours in an approved Focus Area <sup>8</sup>	
It is recommended that students complete the W course in University 1 or Year 2			
<b>HONOURS COOPERATIVE OPTION 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, GEOG 1280 <sup>3</sup> , GEOG 1290 <sup>3</sup> , NATV 1220 <sup>4</sup> , BIOL 1010 <sup>5</sup> , STAT 1000, <b>ECON 1010</b>  Plus 3 credit hours from the Faculty of Arts <sup>6</sup>	ENVR 2350, ENVR 3160 <sup>9</sup> , ECON 2390 (ABIZ 2390), BIOL 2390 <sup>5</sup> , ENVR 2900,  Plus 3 credit hours from List B <sup>7</sup>	GEOG 3810 <sup>10</sup> , ENVR 4110, ENVR 4500  Plus 33 credit hours in an approved Focus Area <sup>8</sup>  ENVR 3900, ENVR 3910, ENVR 3920, ENVR 3980, ENVR 3990 (ENVR 4980 and ENVR 4910 are optional)	
It is recommended that students complete the W course in University 1 or Year 2			
<b>MAJOR 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, GEOG 1280 <sup>3</sup> , GEOG 1290 <sup>3</sup> , NATV 1220 <sup>4</sup> , BIOL 1010 <sup>5</sup> , STAT 1000, <b>ECON 1010</b>  Plus 3 credit hours from the Faculty of Arts <sup>6</sup>	ENVR 2350, ENVR 3160 <sup>9</sup> , ECON 2390 (ABIZ 2390), BIOL 2390 <sup>5</sup>  Plus 3 credit hours from List B <sup>7</sup>	GEOG 3810 <sup>10</sup> , ENVR 4110  Plus 33 credit hours in an approved Focus Area <sup>8</sup>	
It is recommended that students complete the W course in University 1 or Year 2			
<b>MAJOR COOPERATIVE OPTION 120 CREDIT HOURS</b>			
ENVR 1000, ENVR 2000, GEOG 1280 <sup>3</sup> , GEOG 1290 <sup>3</sup> , NATV 1220 <sup>4</sup> , BIOL 1010 <sup>5</sup> ,	ENVR 2350, ENVR 3160 <sup>9</sup> , ECON 2390 (ABIZ 2390), BIOL	GEOG 3810 <sup>10</sup> , ENVR 4110	

STAT 1000, <u>ECON 1010</u>  Plus 3 credit hours from the Faculty of Arts <sup>6</sup>	2390 <sup>5</sup> , ENVR 2900  Plus 3 credit hours from List B <sup>7</sup>	Plus 33 credit hours in an approved Focus Area <sup>8</sup>  ENVR 3900, ENVR 3910, ENVR 3920, ENVR 3980, ENVR 3990 (ENVR 4980 and ENVR 4910 are optional)
It is recommended that students complete the W course in University 1 or Year 2		
<b>GENERAL 90 CREDIT HOURS</b>		
ENVR 1000, ENVR 2000, GEOG 1280 <sup>3</sup> , GEOG 1290 <sup>3</sup> , NATV 1220 <sup>4</sup> , BIOL 1010 <sup>5</sup> , STAT 1000, <u>ECON 1010</u>  Plus 3 credit hours from the Faculty of Arts <sup>6</sup>	ENVR 2350, ENVR 3160 <sup>9</sup> , ECON 2390 (ABIZ 2390), BIOL 2390 <sup>5</sup>  Plus 3 credit hours from List B <sup>7</sup>	GEOG 3810 <sup>10</sup> , ENVR 4110  Plus 9 credit hours in an approved Focus Area
<b>MINOR 18 CREDIT HOURS</b>		
ENVR 1000, ENVR 2000	12 credit hours of ENVR courses numbered at the 2000-level or above.	
<b>NOTES:</b>		
<sup>1</sup> Entrance into the degree programs is summarized in 7.2.2.		
<sup>2</sup> The courses required in this program will satisfy the university mathematics requirements.		
<sup>3</sup> GEOG 1281 and GEOG 1291 may be used in lieu of GEOG 1280 and GEOG 1290.		
<sup>4</sup> Students are permitted to substitute NATV 1220 with another 3 credit hours from the department (not a language) or approved alternative course. See the Riddell Faculty student advisor for assistance.		
<sup>5</sup> Students with an interest in the Conservation and Biodiversity Focus Area are advised to complete the combination of BIOL 1020 and BIOL 1030 as well as BIOL 2300 (or AGECE 2370) instead of BIOL 1010 and BIOL 2390.		
<sup>6</sup> Met if students complete ECON 2390. Otherwise, it is recommended that students consider a selection from List A below when selecting courses from the Faculty of Arts.		
<sup>7</sup> Students must complete 3 credit hours of course work containing significant international content. Students are referred to List B for a list of available courses. Students may substitute with another course as approved by the student advisor.		
<sup>8</sup> Focus Area courses must include a minimum of 21 credit hours at the 3000- and/or 4000-level. Focus Area performance requirements are defined in section 7.3 of this <i>Chapter</i> . Information on Focus Areas is		



available in the Focus Area Brochure.

<sup>9</sup>ENVR 2650 may be used in lieu of ENVR 3160.

<sup>10</sup>GEOG 3680 may be used in lieu of GEOG 3810.

**IMPORTANT:** The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

**NOTE:**

- To fulfil prerequisite requirements, a grade of 'C' must be achieved, unless otherwise stated, in any course stipulated as a prerequisite to a further course.
- Students should review the current course topics available through *ENVR 2010* (1.5), *ENVR 2020* (3), *ENVR 3010* (1.5), *ENVR 3020* (3), *ENVR 4000* (3), *ENVR 4010* (1.5), and *ENVR 4020* (3) as well as those offered through *GEOG 3740* (6), *GEOG 3750* (3), *GEOG 3760* (6), *GEOG 3770* (3) and *GEOG 4670* (3). Also, all courses are not offered every year or every term. The course schedule for the current academic term is available from the **Class Schedule**.
- Students registering in certain courses may be required to participate in field trips or field components and pay a portion of the associated expenses. For details, contact the Department of Environment and Geography general office.
- Equivalent courses offered through Collège universitaire de Saint-Boniface may be used in lieu of the specified course identified in the entrance requirements chart. Collège universitaire de Saint-Boniface courses end in the number '1' (e.g. GEOG 1281).

## Faculty of Human Ecology

### Introductions:

HMEC 3000 Introduction to Social Epidemiology Cr.Hrs. 3 +3

This course provides an overview of the basic concepts, principles and methods of social epidemiology and their applications for research and practice from a human ecology perspective. Applications to social determinants of health across the life course may include but are not limited to income and food security, early childhood development and others.

Prerequisites: HMEC 2000 [or HMEC 2050] or any 2000-level or higher research course and HEAL 2600 [or HMEC 2030].

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

### Program modifications:

In the Human Ecology General Degree Program, ECON 1200 Principles of Economics (6) will be replaced by [ECON 1010 Introduction to Microeconomic Principles (3) and ECON 1020 Introduction to Macroeconomic Principles (3)].

Core course requirements for all programs, excepting the Second Degree Option in Human Nutritional Sciences, will be modified in response to the introduction of HMEC 3000. See the following pages for details.

## Revised Program Information for Faculty of Human Ecology Degree Programs

A. General Information (current UG Calendar, p. 366),

4.2 Faculty Program Requirements:

**Admitted in September 2012 or Later:**

A Faculty core of 9 credit hours consisting of

Course No.		Cr Hrs
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3

B. FAMILY SOCIAL SCIENCES

4.3 Program Electives (current UG Calendar, beginning p. 367)

4.4 Family Social Sciences Content

Course No.		Cr Hrs
STAT 1000	Basic Statistical Analysis	3
One of:		
STAT 2000 <i>or</i>	Basic Statistical Analysis 2, Introductory Computer Usage	3
COMP 1260	<i>or</i> any other science course	
One of:		
ECON 1010,	Principles of Economics, Introduction to Canadian	3-6
1020, 1210 <i>or</i>	Economic Issues, <i>or</i> Introduction to Global and Environmental Economic Issues and Policies	
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3
FMLY 1010	Human Development in the Family	3
FMLY 1012	Introduction to Social Development	3
FMLY 1020	Family Issues across the Lifespan	3
FMLY 1420	Family Management Principles	3
FMLY 2400	Family Financial Health	3
FMLY 2350	Multicultural Family Issues	3
FMLY 3780	Introduction to the Evaluation of Programs for Children and Families	3

FMLY 3790	Introduction to the Evaluation of Programs for Children and Families	3
PSYC 1200 or SOC 1200	Introduction to Psychology or Introduction to Sociology	6
	Department Electives	24
	Faculty Electives (3000 or 4000 level)	3
	Outside Electives	12 – 15
	Free Electives	30

#### 4.5 The After Degree Program in Family Social Sciences

Faculty of Human Ecology Core Courses (any 6 credit hours):

Course No.		Cr Hrs
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3

#### C. HUMAN ECOLOGY PROGRAM

4.7 Program Electives (current UG Calendar, beginning p. 370)

Course No.		Cr Hrs
ECON 1010 and 1020, or 1210 and 1220	Principles of Economics or Introduction to Canadian Economic Issues, or Introduction to Global and Environmental Economic Issues and Policies	6
	Six credit hours from ECON 2280, 2310, 2390, 2400, 2540 2550	6
FMLY 1020	Family Issues across the Lifespan	3
FMLY 2350	Multicultural Family Issues	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3
HNSC 1200	Food: Facts and Fallacies	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
HNSC 2130	Nutrition through the Life Cycle	3
NATV 1200	The Native Peoples of Canada or The Native Peoples of Canada Part 1 and Part 2 (NATV 1220 and NATV 1240)	6

STAT 1000	Basic Statistical Analysis	3
PSYC 1200 <i>or</i>	Introduction to Psychology or Introduction to Sociology	6
SOC 1200		
TXSC 1600	Textiles for Living	3
TXSC 1610	Textiles, Product and Consumers	3
	Science course as defined by the Faculty of Science	3
	Faculty Electives (at least 9 credit hours at 3000 or 4000 level). HMEC 4090 is highly recommended.	24
	Minor/Option	18

#### D. HUMAN NUTRITIONAL SCIENCES PROGRAM

##### 4.8 Program Electives (current UG Calendar, beginning p. 370)

NOTE: This change applies to each Option: Nutrition, Food Industry and Foods

Course No.		Cr Hrs
CHEM 1300	University 1: Structure and Modeling in Chemistry	3
CHEM 1320	University 1: Introduction to Organic Chemistry	3
CHEM 2770	Elements of Biochemistry 1	3
CHEM 2780	Elements of Biochemistry 2	3
FOOD 4150	Food Microbiology	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
<u>HMEC 3000</u>	<u>Introduction to Social Epidemiology</u>	<u>3</u>
HNSC 1200	Food: Facts and Fallacies	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
HNSC 2130	Nutrition through the Life Cycle	3
HSNC 2140	Basic Principles of Human Nutrition	3
HSNC 2150	Composition, Functional and Nutritional Properties of Foods	3
HNSC 2160	Food Preparation and Preservation	3
HNSC 3300	Vitamins and Minerals in Human Health	3
HNSC 3310	Macronutrients and Human Health	3
HNSC 3330	Ingredient Technology for Designed Foods	3
HNSC 4320 <i>or</i>	Nutritional Management of Disease States <i>or</i>	3
HNSC 4300	Community Nutrition Interventions	
HNSC4160	Seminar in Foods and Nutrition	3
HNSC 4290	Food, Nutrition and Health Policies	3
PSYC 1200 <i>or</i>	Introduction to Psychology or Introduction to Sociology	6

SOC 1200		
STAT 1000	Basic Statistical Analysis 1	3
STAT 2000	Basic Statistical Analysis 2	3
BIOL 1410	<i>and</i> Anatomy of the Human Body and	6
BIOL 1412	Physiology of the Human Body (or BIOL 1020 and 1030)	

#### 4.10 Second Degree Program in Human Nutritional Sciences

NOTE: There is no core course requirement in the Second Degree Program in HNS, so no changes are required.

### E. INTERDISCIPLINARY HEALTH PROGRAM

#### 4.11.1 Health Sciences Degree (beginning p. 373 in the current UG Calendar)

Course No.		Cr Hrs
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interaction	3
CHEM 1300	University 1: Structure and Modeling in Chemistry	3
CHEM 1310	University 1: Introduction to Physical Chemistry	3
PSYC 1200	Introduction to Psychology	6
STAT 1000	Basic Statistical Analysis 1	3
BIOL 1410	Anatomy of the Human Body	3
BIOL 1412	Physiology of the Human Body	3
COMP 1260	Introductory Computer Usage 1	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
GMGT 2070	Introduction to Organizational Behaviour	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HEAL 3600	Integration of Health Determinants of Communities	3
HEAL 4600	Integration of Health Determinants for Canada and the World	3
HEAL 4620	Health Sciences Capstone	3
HMEC 2030	Human Ecology: Perspectives and Communication (motion pending: to be replaced for 2012 – 2013)	3
<del>HMEC 3500</del>	<del>Developmental Health</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PHIL 1290	Critical Thinking	3
PSYC 2250	Introduction to Psychological Research	3
Select 6 out of 9 credit hours from		6
GEOG 4290	Geographies of Health and Health Care	

PHIL 2740	Ethics and Biomedicine	
SOC 2490	Sociology of Health and Illness	
Elective Courses to be taken from an approved list of Science courses.		36
At least 21 credit hours are to be taken from the list of approved Science courses (Group A). At least 24 credit hours are to be taken at the 3000 and 4000 level.		
Free Electives		15

#### 4.11.2 Health Studies Degree (beginning p. 374 in the current UG Calendar)

Course No.		Cr Hrs
ANTH 1210	Human Origins and Antiquity	3
ANTH 1220	Cultural Anthropology	3
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interaction	3
PSYC 1200	Introduction to Psychology	6
SOC 1200	Introduction to Sociology	6
STAT 1000	Basic Statistical Analysis 1	3
COMP 1260	Introductory Computer Usage 1	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
GMGT 2070	Introduction to Organizational Behaviour	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HEAL 3600	Integration of Health Determinants of Communities	3
HEAL 4600	Integration of Health Determinants for Canada and the World	3
HEAL 4610	Health Studies Capstone	3
HMEC 2030	Human Ecology: Perspectives and Communication (motion pending: to be replaced for 2012 – 2013)	3
<del>HMEC 3500</del>	<del>Developmental Health</del>	<del>3</del>
<u>HMEC 3000</u>	<u>Introduction to Social Epidemiology</u>	<u>3</u>
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PHIL 1290	Critical Thinking	3
PSYC 2250	Introduction to Psychological Research	3
Select 6 out of 9 credit hours from		6
GEOG 4290	Geographies of Health and Health Care	
PHIL 2740	Ethics and Biomedicine	
SOC 2490	Sociology of Health and Illness	
Elective Courses to be taken from an approved list of Social Science		36

courses. At least 21 credit hours are to be taken from the list of approved Social Science courses (Group A).

At least 24 credit hours are to be taken at the 3000 and 4000 level.

Free Electives

15

#### F. TEXTILE SCIENCES PROGRAM

4.12 Program Electives (current UG Calendar, beginning p. 375)

NOTE: Core Course Change is the same for both Product Development and Textile Development.

##### Product Development

Course No.		Cr Hrs
CHEM 1000	Understanding the World through Chemistry	3
CHEM 1300	University 1: Structure and Modeling in Chemistry	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
ECON 1220	Introduction to Global and Environmental Economic Issues and Policies	3
FMLY 1010	Human Development in the Family	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PERS 1200	Physical Activity, Health and Wellness	3
PSYC 1200 or	Introduction to Psychology or Introduction to Sociology	6
SOC 1200		
STAT 1000	Basic Statistical Analysis 1	3
TXSC 1600	Textiles for Living	3
TXSC 1610	Textiles, Product and Consumers	3
TXSC 2500	Preparation for Product Development	1
TXSC 2600	Textiles for Apparel End Uses	3
TXSC 2610	Textiles for Non Apparel End Uses	3
TXSC2620	Consumer and Organizational Behaviour toward Textile Products	3
TXSC 2630	Pattern Development in an Industrial Environment	3
TXSC 3600	Global Apparel and Textiles Trade	3
TXSC 3610	Product Standards and Specifications	3
TXSC 3620	Evaluation of Textile Performance	3



TXSC 3630	Line Planning and Communication	3
TXSC 3640	Pattern Development in a Computer Aided Design Environment	3
TXSC 3650	Production of Textile Products	3
TXSC 4610	Integrative Project	6
TXSC 4620	Colour Management	3
TXSC 4630	Quality Assurance Systems	3
	Department Electives	9
	Free Electives	27

#### Textile Development

Course No.		Cr Hrs
CHEM 1300	University 1: Structure and Modeling in Chemistry	3
CHEM 1310	University 1: Introduction to Physical Chemistry	3
CHEM 2210	Introductory Organic Chemistry 1: Structure and Function	3
CHEM 2220	Introductory Organic Chemistry 2: Reactivity and Synthesis	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
ECON 1220	Introduction to Global and Environmental Economic Issues and Policies	3
FMLY 1010	Human Development in the Family	3
HEAL 2600	Integration of Health Determinants of Individuals	3
HMEC 2000	Research Methods and Presentation	3
<del>HMEC 3100</del>	<del>Communication for Professional Practice</del>	<del>3</del>
HMEC 3000	Introduction to Social Epidemiology	3
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PERS 1200	Physical Activity, Health and Wellness	3
PSYC 1200 or SOC 1200	Introduction to Psychology or Introduction to Sociology	6
STAT 1000	Basic Statistical Analysis 1	3
STAT 2000	Basic Statistical Analysis 2	3
TXSC 1600	Textiles for Living	3
TXSC 1610	Textiles, Product and Consumers	3
TXSC 2500	Preparation for Product Development	1
TXSC 2600	Textiles for Apparel End Uses	3
TXSC 2610	Textiles for Non Apparel End Uses	3
TXSC2620	Consumer and Organizational Behaviour toward Textile	3

	Products	
TXSC 3500	Textiles for the Healthcare Sectors	3
TXSC 3610	Product Standards and Specifications	3
TXSC 3620	Evaluation of Textile Performance	3
TXSC 4500	Advanced Textiles for the Healthcare Sector	3
TXSC 4610	Integrative Project	6
TXSC 4620	Colour Management	3
TXSC 4630	Quality Assurance Systems	3
	Students choose from one of three Options in Engineering Sciences, Microbiological Sciences, or Exercise and Sports Science	18 – 28
	Department Electives	3
	Free Electives	12

## Family Social Sciences

### Deletions:

FMLY 4600 Risk and Resilience in Behavioural and Social Development Cr.Hrs. 3	-3
FMLY 3804 Violence Against Children in the Family Cr.Hrs. 3	-3
FMLY 4800 Senior Seminar in Family Violence and Conflict Resolution Cr.Hrs. 3	-3

### Introductions:

FMLY 4500 Senior Thesis Cr.Hrs. 6 +6  
The preparation and presentation of a comprehensive review of the literature and an empirical investigation of an approved topic. Prerequisite: Registered in the final year of the Family Social Sciences program and consent of Department Head. Application required. Enrolment limited.

FMLY 4220 Aging and Risk in a Global Context Cr. Hrs. 3 +3  
This course will take an interdisciplinary perspective on definitions of risk associated with a variety of determinants that shape the daily lived experience of older adults, their families and communities, and the institutions that care for them. Students will evaluate programs, policies and research, and engage in a final project of their choice. Prerequisite or corequisite: HMEC 2650 or SWRK 2650 or REC 2650 or NURS 2610 or KIN 2610.

FMLY 4604 Children in Adversity Cr.Hrs. 3 +3  
Millions of children live with violence, trauma and other adverse circumstances. We will explore the interactions among individual, family, cultural, legal and policy factors as they affect children's developmental pathways in the face of adversity. Prerequisite: FMLY 2600 or FMLY 3600. Not to be held with FMLY 4600 or 062.437.

FMLY 3806 Children, Violence and Rights Cr.Hrs. 3 +3  
Violence against children in their families takes many forms, from sexual exploitation to honour killings. We will explore, through a child rights lens, the forces contributing to violence against children, its impact on human lives, and approaches to prevention being implemented around the world. Prerequisite: FMLY 2800. Not to be held with FMLY 3804.

FMLY 4802 Family Violence Prevention Cr.Hrs. 3 +3  
Family violence prevention theories, research, practices and policies will be critically reviewed with regard to issues such as gender, culture, sexual orientation, and others. Prerequisites: FMLY 3802 or FMLY 3806. Not to be held with the former FMLY 4800 (062.480).

### Modification:

FMLY 3400 Families as Consumers Cr.Hrs. 3  
An examination of the factors that influence the consumer behaviour of individuals and families across the life course, with particular attention to the situation of vulnerable consumers. Theory, education, policy and practice are related to contemporary consumer issues and the impact of consumption behaviour on the environment. Prerequisites: [FMLY 2400 or FMLY 2070 (062.207)] and [ECON 1210 (18.121) or ECON 1220 (018.122) or ECON 1010 or ECON 1020]. Not to be held with the former FMLY 3450 (062.345).

FMLY 4400 Family Economics: Poverty and Wealth Cr.Hrs. 3

Analysis of principles, major problems and trends in the economic welfare of individuals and families in both the Canadian and global economies. Emphasis on families and their relationships to the economy such as income inequality, family economic policy, human capital, poverty and resource distribution within families. Prerequisites: [FMLY 2400 or FMLY 2070 (or 062.207)] and [one of ECON 1210 (18.121) or ECON 1220 (018.122) or ECON 1010 or ECON 1020]. Not to be held with the former FMLY 4450 (or 062.445).

FMLY 3330 Parenting and Developmental Health Cr.Hrs. 3

(formerly 062.333) Examines parenting and its influence on developmental health, with consideration of change across time, the context in which parenting occurs, and the effect of the parent-child relationship on developmental health. Prerequisite: FMLY 2600 or FMLY 3600. Not to be held with 062.435.

### **NET CHANGE IN CREDIT HOURS: +9**

Program modifications:

In the Bachelor of Human Ecology (Family Social Sciences), ECON 1200 Principles of Economics (6) will be replaced by ECON 1010 Introduction to Microeconomic Principles (3) or ECON 1020 Introduction to Macroeconomic Principles (3). (See above.)

**Child and Adolescent Development Option**  
**Child and Youth Developmental Health Option**

FMLY 2600 Foundations of Childhood Developmental Health	3
FMLY 3600 Adolescents in Families and Societies	3
FMLY 4600 Risk and Resilience in Behavioural and Social Development	
<b>FMLY 3330 or FMLY 4802X 4604</b>	
<b>Parenting and Developmental Health</b>	
<b>Children in Adversity</b>	3

**At least nine credit hours from:**

<b>ANTH 2300 Anthropology of Childhood</b>	9
FMLY 2800 Family Violence	
FMLY 3610 Developmental Health of Children and Youth	
FMLY 3800 Conflict Resolution in the Family	
FMLY 3802 Intimate Partner Violence	
<b>FMLY 3806 Children, Violence and Rights</b>	
FMLY 3804 Violence Against Children in the Family	
FMLY 3330 Parenting and Developmental Health	
FMLY 4330 Management of Family Stress	
FMLY 4602 Family Relationships, Health and Well-Being	
FMLY 4480 Work and Family Issues	
HNSC 1210 Nutrition for Health and Changing Lifestyles	
HNSC 2130 Nutrition through the Life Cycle	
NURS 4440 Health Promotion in the Community	
NURS 4420 Prevention of Illness	
<b>PSYC 2310 Adolescent Development</b>	
<b>PSYC 2370 Developmental Psychology from Adolescence to Old Age</b>	
<b>PSYC 2440 Behaviour Modification Principles</b>	
<b>PSYC 2450 Behaviour Modification Applications</b>	
<b>PSYC 2860 Language Acquisition</b>	
<b>PSYC 3360 Experimental Child Psychology</b>	
<b>SOC 3830 Youth, Crime &amp; Society</b>	

Family Violence and Conflict Resolution Option	
<b>Family Violence</b>	
FMLY 2800 Family Violence	3
FMLY 3800 Conflict Resolution in the Family	
FMLY 4800 Senior Seminar in Family Violence and Conflict Resolution	
<b>FMLY 3802 Intimate Partner Violence or FMLY 3806 Children, Violence and Rights</b>	3
<b>FMLY 4802 Family Violence Prevention</b>	3
<b>At least 9 credit hours (at least 3 credit hours must be selected from courses numbered 3000 or 4000):</b>	9
ANTH 3380 Anthropology and Contemporary Social Issues	
FMLY 3610 Developmental Health of Children and Youth	
<b>FMLY 3800 Conflict Resolution in the Family</b>	
FMLY 3802 Intimate Partner Violence	
FMLY 3804 Violence Against Children in the Family	
<b>FMLY 4220 Aging and Risk in a Global Context</b>	
FMLY 4330 Management of Family Stress	
FMLY 4600 Risk and Resilience in Behavioural and Social Development	
<b>FMLY 4604 Children in Adversity</b>	
FMLY 4602 Family Relationships, Health and Well-Being	
NATV 1240 The Native Peoples of Canada, Part 2	
NURS 3300 Women and Health	
NURS 3400 Men's Health: Concerns, Issues and Myths	
PSYC 2460 Dyadic Relationships	
SOC 2370 Ethnic Relations	
SOC 2510 Criminology	
SOC 3700 Sociology of Law	
SOC 3790 Women, Crime and Social Justice	
SOC 3830 Youth, Crime, and Society	
SWRK 3130 Contemporary Canadian Social Welfare	
WOMN 3560 Feminist Perspectives on Violence Against Women	

also part of

**Aging Option**

***Aging and Developmental Health Option***

This option is the Interfaculty Option in Aging, which can fulfill the requirement for an option within the Family Social Sciences major.

HMEC or SWRK or REC 2650 Social Aspects of Aging	3
FMLY 4300 Field Experience	6
NURS or KIN 2610 Health and Physical Aspects of Aging	3

**At least 3 credit hours from:**

FMLY 3220 Death and the Family	3
FMLY 3240 Families in Later Years	
<b><i>FMLY 4220 Aging and Social Aspects of Risk in a Global Context</i></b>	

**At least 3 credit hours from:**

NURS 2200 Selected Topics in Aging and Health	3
PSYC 2370 Developmental Psychology from Adolescence to Old Age	
PSYC 3460 Abnormal Psychology	
PSYC 3490 Individual Differences	
PSYC 3610 Memory	
KIN 4500 Physical Activity and Aging	
REC 4250 Leisure and Aging	
RLGN 1410 Death and Concepts of the Future	
SOC 2490 Sociology of Health and Illness	
SOC 2620 The Sociology of Aging	
SOC 3510 Population Dynamics and Change	
SOC 3540 The Sociology of Health Care Systems	

## Family Economic Health Option

### At least 9 credit hours from:

9

FMLY 3400 Families as Consumers  
FMLY 4330 Management of Family Stress  
FMLY 4400 Family Economics: Poverty and Wealth  
FMLY 4460 Family Financial Counselling  
FMLY 4480 Work and Family Issues

### At least 9 credit hours from (at least 3 credit hours must be selected from courses numbered 3000 or 4000):

9

ACC 1100 Introductory Financial Accounting  
ACC 1110 Introductory Managerial Accounting  
ANTH 2550 Culture and the Individual  
ANTH 2430 Ecology, Technology and Society  
ECON 2280 Social Welfare and Human Resources  
ECON 2310 Canadian Economic Problems  
ECON 2350 Community Economic Development  
ECON 2360 Women in the Canadian Economy  
ECON 2390 Introduction to Environmental Economics  
ECON 2400 Introduction to Energy Economics  
ECON 2540 Political Economy 1: Production and Distribution  
ECON 2550 Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment  
ECON 3390 Development Economics  
ECON 3720 Urban and Regional Economics and Policies  
FIN 2200 Corporation Finance  
FIN 3420 Security Analysis  
FMLY 3012 Social Development Policies  
FMLY 3240 Families in Later Years  
FMLY 3610 Developmental Health of Children and Youth  
FMLY 4012 Theories of Social Development  
**FMLY 4220 Aging and Social Aspects of Risk in a Global Context**  
FMLY 4602 Family Relationships, Health and Well-Being  
GEOG 1280 Introduction to Human Geography  
GEOG 2210 Economic Geography  
MGMT 2030 Administrative Theory  
MGMT 2440 Human Resource Management  
HNSC 1210 Nutrition for Health and Changing Lifestyles  
HNSC 2130 Nutrition through the Life Cycle  
IDM 3000 Aboriginal Business Context: Influences and Impacts  
MKTG 2210 Fundamentals of Marketing  
MKTG 3230 Consumer Behaviour  
NATV 1200 The Native Peoples of Canada  
NATV 1220 The Native Peoples of Canada, Part 1  
NATV 1240 The Native Peoples of Canada, Part 2  
NURS 4440 Health Promotion in the Community  
SOC 3370 Sociology of Work  
SOC 3510 Population Dynamics and Change  
SOC 3470 Political Sociology  
SOC 3870 Social Inequality  
TXSC 1600 Textiles for Living  
TXSC 1610 Textiles, Product and Consumers  
TXSC 2600 Textiles for Apparel End Uses  
TXSC 2610 Textiles for Non Apparel End Uses  
TXSC 2620 Consumer and Organizational Behaviour Toward Textile Products  
TXSC 3600 Consumer and Organizational Behaviour Toward Textile Products



**Social Development Option**

FMLY 2012 Development, Conflict, and Displacement	3
FMLY 3012 Social Development Policies	3
FMLY 4012 Theories of Social Development	3

**At least 3 credit hours from:**

3

HMEC or SWRK or REC 2650 Social Aspects of Aging
FMLY 2800 Family Violence
FMLY 3240 Families in Later Years
FMLY 3400 Families as Consumers
FMLY 3800 Conflict Resolution in the Family
<del>FMLY 3804 Violence Against Children in the Family</del>
<b>FMLY 4220 Aging and Risk in a Global Context.</b>
FMLY 4330 Management of Family Stress
FMLY 4400 Family Economics, Poverty and Wealth
<del>FMLY 4600 Risk and Resilience in Behavioural and Social Development</del>
<b>FMLY 4604 Children in Adversity</b>
FMLY 4602 Family Relationships, Health and Well-Being
FMLY 4480 Work and Family Issues

**At least 6 credit hours from:**

6

ANTH 1220 Cultural Anthropology
ANTH 2390 Social Organization in Cross-Cultural Perspective
ANTH 2570 Urban Anthropology
ANTH 3380 Anthropology and Contemporary Social Issues
EVCP 3340 History of the City
EVCP 3350 Planning and Design for Shelter
EVDS 1610 Theory of Design 1
GEOG 2640 Geography of Culture and Inequality
GEOG 3460 Urban Geography
SOC 2320 Canadian Society and Culture
SOC 2390 Social Organization
SWRK 2050 Community and Organizational Theory
OR at least 6 credit hours from: 6
NATV 1200 The Native Peoples of Canada
NATV 1220 The Native Peoples of Canada, Part 1
NATV 1240 The Native Peoples of Canada, Part 2
NATV 2100 Aboriginal Spirituality
NATV 3240 Native Medicine and Health
NATV 4230 Traditional Knowledge and Native Studies Research
OR at least 6 credit hours from: 6
POLS 2070 Introduction to Canadian Government
POLS 2510 Great Political Thinkers
POLS 3160 Human Rights and Civil Liberties
POLS 3600 Political Concepts
POLS 3670 Canadian Political Parties
WOMN 1540 Introduction to Women's Studies in Social Sciences
WOMN 2500 Race, Class and Sexuality

**Interdisciplinary Health Program**

In the Bachelor of Health Sciences and the Bachelor of Health Studies degrees, GMGT 2070 Introduction to Organizational Behaviour (3) will be replaced by GMGT 1010 Business and Society (3) or GMGT 2030 Administrative Theory (3). GMGT 2070 will be added to the list of elective courses. Students will be given the option of completing either PSYC 2250 Introduction to Psychological Research (3) or HMEC 2000 Research Methods and Presentation (3) as a required research course.

**Revised Program Information for Interdisciplinary Health Degree Programs (Health Sciences and Health Studies)**

**A. INTERDISCIPLINARY HEALTH PROGRAM**

**4.11.1 Health Sciences Degree (beginning p. 373 in the current UG Calendar)**

Course No.		Cr Hrs
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interaction	3
CHEM 1300	University 1: Structure and Modeling in Chemistry	3
CHEM 1310	University 1: Introduction to Physical Chemistry	3
PSYC 1200	Introduction to Psychology	6
STAT 1000	Basic Statistical Analysis 1	3
BIOL 1410	Anatomy of the Human Body	3
BIOL 1412	Physiology of the Human Body	3
COMP 1260	Introductory Computer Usage 1	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
<del>GMGT 2070</del>	<del>Introduction to Organizational Behaviour</del>	<del>3</del>
<u>GMGT 1010 or Business and Society or</u>		<u>3</u>
<u>GMGT 2030</u>	<u>Administrative Theory</u>	
HEAL 2600	Integration of Health Determinants of Individuals	3
HEAL 3600	Integration of Health Determinants of Communities	3
HEAL 4600	Integration of Health Determinants for Canada and the World	3
HEAL 4620	Health Sciences Capstone	3
HMEC 2030	Human Ecology: Perspectives and Communication	3
<del>HMEC 3500</del>	<del>Developmental Health</del>	<del>3</del>
<u>HMEC 3000</u>	<u>Introduction to Social Epidemiology</u>	<u>3</u>
[this change with motion to change Human Ecology core course changes]		
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PHIL 1290	Critical Thinking	3
<del>PSYC 2250</del>	<del>Introduction to Psychological Research</del>	<del>3</del>
<u>PSYC 2250 or Introduction to Psychological Research</u>		<u>3</u>
<u>HMEC 2000</u>	<u>Research Methods and Presentation</u>	
Select 6 out of 9 credit hours from		6
GEOG 4290	Geographies of Health and Health Care	
PHIL 2740	Ethics and Biomedicine	
SOC 2490	Sociology of Health and Illness	
Elective Courses to be taken from an approved list of Science courses.		36
At least 21 credit hours are to be taken from the list of approved		

Science courses (Group A). At least 24 credit hours are to be taken at the 3000 and 4000 level.

Free Electives 15

4.11.2 Health Studies Degree (beginning p. 374 in the current UG Calendar)

Course No.		Cr Hrs
ANTH 1210	Human Origins and Antiquity	3
ANTH 1220	Cultural Anthropology	3
BIOL 1020	Biology 1: Principles and Themes	3
BIOL 1030	Biology 2: Biological Diversity, Function and Interaction	3
PSYC 1200	Introduction to Psychology	6
SOC 1200	Introduction to Sociology	6
STAT 1000	Basic Statistical Analysis 1	3
COMP 1260	Introductory Computer Usage 1	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3
<del>GMGT 2070</del>	<del>Introduction to Organizational Behaviour</del>	<del>3</del>
	<u>GMGT 1010 or Business and Society or</u>	<u>3</u>
	<u>GMGT 2030 Administrative Theory</u>	<u>3</u>
HEAL 2600	Integration of Health Determinants of Individuals	3
HEAL 3600	Integration of Health Determinants of Communities	3
HEAL 4600	Integration of Health Determinants for Canada and the World	3
HEAL 4610	Health Studies Capstone	3
HMEC 2030	Human Ecology: Perspectives and Communication (motion pending: to be replaced for 2012 – 2013)	3
<del>HMEC 3500</del>	<del>Developmental Health</del>	<del>3</del>
	<u>HMEC 3000 Introduction to Social Epidemiology</u>	<u>3</u>
[this change with motion to change Human Ecology core course changes]		
HNSC 1210	Nutrition for Health and Changing Lifestyles	3
PHIL 1290	Critical Thinking	3
<del>PSYC 2250</del>	<del>Introduction to Psychological Research</del>	<del>3</del>
	<u>PSYC 2250 or Introduction to Psychological Research</u>	<u>3</u>
	<u>HMEC 2000 Research Methods and Presentation</u>	<u>3</u>
Select 6 out of 9 credit hours from		6
GEOG 4290	Geographies of Health and Health Care	
PHIL 2740	Ethics and Biomedicine	
SOC 2490	Sociology of Health and Illness	

Elective Courses to be taken from an approved list of Social Science courses. At least 21 credit hours are to be taken from the list of approved Social Science courses (Group A). At least 24 credit hours are to be taken at the 3000 and 4000 level.	36
Free Electives	15

### Faculty of Kinesiology and Recreation Management

The faculty is proposing a program modification for the Bachelor of Recreation Management and Community Development degree. The course REC 3850 The Planning of Recreation Areas and Facilities is to be deleted as a required course and will become a faculty elective within the faculty's course offerings.

#### 4.4 Program Requirements: Bachelor of Recreation Management and Community Development

(Students admitted in September 2010 or later)

##### Requirements for Graduation: Bachelor of Recreation Management and Community Development

To graduate with a four-year Bachelor of Recreation Management and Community Development degree, a student must have passed the 120 credit hours of the program outlined below and must have achieved a Degree Grade Point Average (DGPA) of 2.00 with a minimum grade of "C" in all faculty-required courses. A maximum of 158 credit hours may be attempted in order to obtain the 120 credit hours required for graduation with the Bachelor of Recreation Management and Community Development degree.

##### Year 1 - University 1: 30 credit hours

Course No.		Credit Hours
PERS 1200	Physical Activity, Health and Wellness	3
PERS 1300	Introduction to Leisure Travel	3
PERS 1400	Concepts of Recreation and Leisure	3
PERS 1500	Foundations of Physical Education and Kinesiology	3
PSYC 1200	Introduction to Psychology	6
W	Written English Requirement	3
STAT 1000	Basic Statistical Analysis 1	3
	Electives	6

##### Year 2: 30 credit hours

Course No.		Credit Hours
SOC 1200	Introduction to Sociology	6
PERS 2100	Introduction to Professional Practice	3
PERS 2200	Program Planning Principles	3
PERS 3350	Introduction to Research	3
REC 2400	Management and Marketing of Leisure Services	3
REC 3090	Foundations of Sustainable Nature-Based Tourism	3
REC-3850	The Planning of Recreation Areas and Facilities	3
	Electives	6-9 (revised)

##### Year 3: 30 credit hours

Course No.		Credit Hours
PERS 3100	Inclusive Physical Activity and Leisure	3
PERS 3340	Philosophy of Physical Activity and Leisure	3
PERS 3460	Sociology of Physical Activity and Leisure	3
REC 3200	Advanced Program Planning and Research	3
REC 4070	Community Development and the Leisure Delivery System	3
REC 4XXX	Advanced Recreation Electives*	6
	Electives	9

##### Year 4: 30 credit hours

Course No.		Credit Hours
PERS 4100	Current Issues	3
REC 4XXX	Advanced Recreation Electives*	6
	Electives	21**

\*Note: Advanced Recreation Electives offered change each year. Consult with an Academic Advisor for a list of approved courses that may fulfill this requirement.

\*\* PERS 4630 Supervised Fieldwork Experience is strongly recommended in Year 4 (12 credit hours)

\*\* A maximum of 18 credit hours of electives may be taken from outside the Faculty following Year 1.

**Degree Exit Requirement:** Current Basic Rescuer CPR and Emergency or Standard First Aid Certification

## Faculty of Law

### Deletions:

LAW 3140 Clinical Administrative Law Cr.Hrs. 4	-4
LAW 3260 Insurance Law Cr.Hrs. 4	-4
LAW 3930 The Legal Profession and Professional Responsibility Cr.Hrs. 3	-3
LAW 3500 Intellectual Property Cr.Hrs. 4	-4

### Introductions:

LAW 3020 Clinical Administrative Law Cr.Hrs. 3	+3
--	----

The primary purpose of this course is to train students in lawyering skills. Students will be required to engage in classroom work and participate in simulated exercises. Emphasis will be given to the difference between board and court advocacy.

LAW 3022 Insurance Law Cr.Hrs. 3	+3
----------------------------------	----

Introduction to the basic principles of insurance law. The fundamental elements to most types of policies will be examined with particular emphasis on property and liability insurance. The terms and provisions specific insurance policies and coverages such as automobile, property, liability policies will also be covered.

LAW 3024 The Legal Profession and Professional Responsibility Cr.Hrs. 3	+3
---	----

A general introduction to the problems of professional responsibility and the ethics of lawyers individually, as well as the legal profession collectively. Topics dealt with will include ethical problems of the lawyer in the role of advocate and in the role of counsellor (confidentiality, conflict of interest, etc.); professional responsibility in the delivery of legal service (competency, fee determination, specialization, regulation, etc.) and the legal profession and the public interest (governance of profession, discipline, professional liability, etc.). These problems are to be studied by the critical examination of case law, codes and canons, and other published materials, by classroom discussion and debate on problems; and by workshops and panels which involve practising lawyers.

LAW 3026 Trademarks and Patents Cr.Hrs. 3	+3
---	----

An in-depth examination of the law of Trade-marks and Patents, including underlying policy objectives.

LAW 3028 Copyright Law Cr.Hrs. 3	+3
----------------------------------	----

An in-depth examination of the law of Copyright.

**NET CHANGE IN CREDIT HOURS: 0**

Asper School of Business - Faculty of Management

Warren Centre for Actuarial Studies

Modification:

ACT 4140 Actuarial Modeling Methods 1 Cr.Hrs. 3  
(formerly 010.414) Estimation and Fitting of Survival Models. May not hold credit with the former 010.448 Topic Survival Models. Prerequisite or Concurrent Requirement: STAT 3800 (or the former STAT 3600)(D).

**NET CHANGE IN CREDIT HOURS: 0**

Program Modification:

Actuarial Mathematics

The Major consists of any 12 hours from ACT 2020, ACT 2120, ACT 3130, ACT 3230, ~~ACT 3530~~, ACT 3340, ACT 4140, and ACT 4340.

Prior to registration, all students enrolled in Actuarial Mathematics should consult the Director or a Undergraduate Program Advisor for program planning advice.

Students admitted from September 2011 onward are recommended to complete MATH 1300 and MATH 1700 as either part of their Track 1/Foundation Course requirement or alternatively as an elective option. Actuarial major students are also recommended to take STAT 2400 and ACC 1100 in their first 45 credit hours of study.

To facilitate entry into and understanding of material covered in some advanced Actuarial courses, students entering the second year of the four-year program are advised to take the following courses: MATH 2720 plus MATH 2730 or MATH 2750 (which satisfies the elective requirement). Students declaring Actuarial Mathematics as their first major may take these courses as either Business Options or non-Business Electives.

Students admitted in Fall 2006 and thereafter are required to attain a minimum grade of "C+" in all Actuarial courses in order to graduate with a Actuarial Mathematics Major.

Faculty of Medicine

School of Medical Rehabilitation

Deletions:

REHB 1200 Basic Clinical Sciences Cr.Hrs. 3	-3
REHB 1480 Human Anatomy Cr.Hrs. 3	-3
PT 1700 Psychosocial Issues Cr.Hrs. 6	-6
PT 1730 Physical Therapy Management Cr.Hrs. 10	-10
PT 1750 Rehabilitation Exercise 1 Cr.Hrs. 6	-6
PT 1910 Pathology and Clinical Manifestations Cr.Hrs. 5	-5

**NET CHANGE IN CREDIT HOURS: -33**



## Faculty of Nursing

### Program modification:

Once admitted to the Faculty of Nursing, students must complete the final seven terms of the Four-Year Baccalaureate Nursing Program within six (6) years. Extensions for program completion for students in good standing may be considered on a case by case basis by the Associate Dean, Undergraduate Programs.

## Faculty of Pharmacy

### Deletions:

PHRM 3100 Pharmacy Skills Lab 3 Cr.Hrs. 2	-2
PHRM 3500 Clinical Pharmacokinetics Cr.Hrs. 4	-4

### Introductions:

PHRM 3110 Pharmacy Skills Lab III Cr.Hrs. 3 +3  
The course develops essential skills required for pharmacy practice. The focus is on interaction with patients and other health care professionals and the application of essential knowledge, skills and values required for the provision of pharmaceutical care. May not be held with PHRM 3100 or 046.310.

PHRM 3550 Clinical Pharmacokinetics Cr.Hrs. 3 +3  
This course explores the practical application of pharmacokinetic concepts, calculations, and patient factors which effect pharmacokinetics in the clinical setting. Emphasis is on selected medications that require closer monitoring to ensure efficacy and patient safety. May not be held with PHRM 3500 or 046.350.

### **NET CHANGE IN CREDIT HOURS: 0**

### Program modifications:

Third Year (for 2012-2013)

Dept. Code	Course No.	Course Name	Credit Hours
<del>PHRM</del>	<del>3100</del>	<del>Pharmacy Skills Lab 3</del>	<del>2</del>
<b>PHRM</b>	<b>3110</b>	<b>Pharmacy Skills Lab III</b>	<b>3</b>
PHRM	3230	Principles of Professional Practice	2
PHRM	3220	Medicinal Chemistry 2	3
PHRM	3310	Clinical Pharmacy 2	10
PHRM	3320	Pharmaceutical Analysis Lab	3
PHRM	3430	Natural Products	3
<del>PHRM</del>	<del>3500</del>	<del>Clinical Pharmacokinetics</del>	<del>4</del>
<b>PHRM</b>	<b>3550</b>	<b>Clinical Pharmacokinetics</b>	<b>3</b>
PHRM	3520	Principles of Scientific Literature	4
PHRM	3640	Principles of Biotechnology	3
PHRM	3700	Structured Practical Experiential Program 3	4

Total Credit Hours for Third Year: 38

## Faculty of Science

### Actuarial Mathematics

The Program is proposing program modifications to the Honours Actuarial and the Joint Statistics – Actuarial Mathematics Honours programs and the program Notes.

**ACTUARIAL MATHEMATICS**  
**Program Changes**  
**Effective Fall Term 2012**

**Current Program Chart:**

**Honours Program Specific Courses**

Students must achieve a minimum grade of "C+" in each of the following for both prerequisite purposes and graduation requirements:

ACT 2020, ACT 2120, ACT 2210, ACT 3130, ACT 3230, ACT 3530, ~~ACT 4000~~, ACT 4060, ACT 4140, ACT 4340

**4.1.2 Actuarial Mathematics**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS ACTUARIAL 120 CREDIT HOURS</b>			
ECON 1010 <sup>6</sup> , ECON 1020 <sup>6</sup>	ACT 2020, ACT 2120	ACT 2210, ACT 3130, ACT 3230, ACT 3530, <del>ACT 4000</del>	ACT 4060, ACT 4140, ACT 4340
MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup> , MATH 1300 <sup>1</sup>	STAT 2400, STAT 3400	MATH 2300 <sup>4</sup>	STAT 3470 <sup>6</sup> , STAT 3490 <sup>3,6</sup>
STAT 1000, STAT 2000	ACC 1100 <sup>2,6</sup> , FIN 2200 <sup>2,6</sup>	STAT 3050, STAT 3800	MSCI 2150 <sup>5</sup>
3 credit hour "W" requirement	MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup>		
	COMP-1260 <sup>5</sup>		
6 credit hours of electives <sup>7</sup>	<del>3 credit hours of approved electives<sup>2</sup></del>	6 credit hours of approved electives <sup>7</sup>	12 credit hours of approved electives <sup>7</sup>
30 Hours	30 Hours	30 Hours	30 Hours

**JOINT STATISTICS - ACTUARIAL MATHEMATICS HONOURS:** See Section 4.13.3

**NOTES:**

<sup>1</sup> MATH 1510 or MATH 1520 may be taken instead of MATH 1500; MATH 1310 may be taken instead of MATH 1300; MATH 1710 may be taken instead of MATH 1700; MATH 1690 may be taken in place of both MATH 1500 and MATH 1700; MATH 2750 may be taken in place of both MATH 2720 and MATH 2730.

<sup>2</sup> ACC 1100 and FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that these two courses be taken in Year 2 or 3. Note that ACC 1100 is a prerequisite for FIN 2200.

<sup>3</sup> STAT 3490 may be taken in Year 3 or 4.

<sup>4</sup> MATH 2300 may be taken in Year 2, 3 or 4.

<sup>5</sup> COMP 1260 and MSCI 2150 may be taken in Year 2, 3 or 4. Note that COMP 1260 is a prerequisite for MSCI 2150.

<sup>6</sup> In order to receive course credit and examination exemptions from future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in these courses. Contact the Warren Centre for Actuarial Studies and Research for further information.

**<sup>7</sup> Recommended Electives**

The electives in Year 3 and Year 4 are to be chosen from Actuarial Mathematics, approved Business courses, Computer Science, Economics, Mathematics (3000 or 4000 level) and Statistics (4000 level courses). Other electives may be selected through consultation with the program director.

~~Year 1: PSYC 1200 or SOC 1200~~

~~Year 2: GMGT 2000~~

Year 3: FIN 3410, STAT 3480

Year 4: FIN 3270, ~~ACT 4050, ACT 4060~~, STAT 4100, STAT 4520, STAT 4530, STAT 4630.

## Proposed Program:

### Honours Program Specific Courses

Students must achieve a minimum grade of "C+" in each of the following for both prerequisite purposes and graduation requirements:

ACT 2020, ACT 2120, ACT 2210, ACT 3130, ACT 3230, ACT 3340, ACT 3530, ACT 4060, ACT 4140, ACT 4340

#### 4.1.2 Actuarial Mathematics

FIRST YEAR	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS ACTUARIAL 120 CREDIT HOURS</b>			
ECON 1010 <sup>5</sup> , ECON 1020 <sup>5</sup>	ACT 2020, ACT 2120	ACT 2210, ACT 3130, ACT 3230, <u>ACT 3340</u> , ACT 3530	ACT 4060, ACT 4140, ACT 4340
MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup> , MATH 1300 <sup>1</sup>	STAT 2400, STAT 3400	STAT 3050, STAT 3800	STAT 3470 <sup>5</sup> , STAT 3490 <sup>3,5</sup>
STAT 1000, STAT 2000	ACC 1100 <sup>2,5</sup> , FIN 2200 <sup>2,5</sup> , <u>GMGT 2010</u>		MSCI 2150
3 credit hour "W" requirement	MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup> MATH 2300 <sup>4</sup>		
6 credit hours of electives <sup>2</sup>		9 credit hours of approved electives <sup>2</sup>	12 credit hours of approved electives <sup>2</sup>
30 Hours	30 Hours	30 Hours	30 Hours

**JOINT STATISTICS - ACTUARIAL MATHEMATICS HONOURS:** See Section 4.13.3

#### NOTES:

<sup>1</sup> MATH 1510 or MATH 1520 may be taken instead of MATH 1500; MATH 1310 may be taken instead of MATH 1300; MATH 1710 may be taken instead of MATH 1700; MATH 1690 may be taken in place of both MATH 1500 and MATH 1700; MATH 2750 may be taken in place of both MATH 2720 and MATH 2730.

<sup>2</sup> Students are strongly urged to complete ACC 1100 in Year 1 when possible. FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that it be completed in Year 2. Note that ACC 1100 is a prerequisite for FIN 2200.

<sup>3</sup> STAT 3490 may be taken in Year 3 or 4.

<sup>4</sup> MATH 2300 may be taken in Year 2, 3 or 4.

<sup>5</sup> In order to receive course credit and examination exemptions from future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in these courses. Contact the Warren Centre for Actuarial Studies and Research for further information.

#### <sup>7</sup> Recommended Electives

The electives in Year 3 and Year 4 are to be chosen from Actuarial Mathematics, approved Business courses, Computer Science, Economics, Mathematics (3000 or 4000 level) and Statistics (4000 level courses). Other electives may be selected through consultation with the program director.

Year 3: FIN 3410, STAT 3480

Year 4: FIN 3270, STAT 4100, STAT 4200, STAT 4520, STAT 4530, STAT 4630.

#### Summary of changes:

1. Remove COMP 1260 from program. (No longer prerequisite to MSCI 2150)
2. Remove ACT 4000 from program - Add ACT 3340 to year 3 of program (replacing ACT 4000)
3. Add GMGT 2010 to year 2 of program (Increase communication requirement)
4. Shift MATH 2300 to year 2 (balance requirements and electives)
5. Move the 3 credit hour elective from year 2 to year 3
6. Alter "Note 2" to indicate the importance of completing ACC 1100 in Year 1 and FIN 2200 in Year 2.
7. Remove "Note 5" re: COMP 1260. (The former Note 6 moves to Note 5).
8. Remove ACT 4050 (course no longer offered) and ACT 4060 (req'd course) from Recommended Electives.
9. Add STAT 4200 to list of recommended electives.

## Biochemistry

The Department is proposing program modifications to the Joint Honours and Joint Honours Cooperative Option programs.

### BIOCHEMISTRY

#### Program Changes

Effective Fall Term 2012

#### Biochemistry Honours and Honours Co-op

##### Current:

#### 4.2.2 Biochemistry Programs (offered Jointly by the Departments of Chemistry and Microbiology)

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>JOINT HONOURS 120 CREDIT HOURS</b>			
CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup>	CHEM 2210, CHEM 2220, CHEM 2280, CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 MBIO 1010, MBIO 2020	CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460	CHEM 4360, <del>CHEM 4370</del> , CHEM 4620, CHEM 4630, CHEM 4700 MBIO 4540
In University 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement <sup>2</sup> 3 credit hours chosen from COMP, MATH, or STAT <sup>5</sup>		18 credit hours selected from the list of Microbiology and Chemistry optional courses (listed above). 12 credit hours selected from the Faculty of Science <sup>5</sup>	
30 Hours	30 Hours	30 Hours	30 Hours
<b>JOINT HONOURS COOPERATIVE OPTION<sup>3</sup> 120 CREDIT HOURS</b>			
CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup>	CHEM 2210, CHEM 2220, CHEM 2280, CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 MBIO 1010, MBIO 2020	CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460	CHEM 4360, <del>CHEM 4370</del> , CHEM 4620, CHEM 4630 MBIO 4540
In University 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement <sup>2</sup> 3 credit hours chosen from COMP, MATH, or STAT <sup>5</sup>		21 credit hours selected from the list of Microbiology and Chemistry Optional courses listed above. 12 credit hours selected from the Faculty of Science <sup>5</sup>	
		<b>Work Terms:</b> MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990	
30 Hours	30 Hours	30 Hours	30 Hours

#### Chemistry and Microbiology Option Courses for Biochemistry Honours Students:

CHEM: 2290, 3400 3360, 3370, 3390, 3490, 3580, 4570, 4580, 4590, 4600, 4640, 4650, 4670, 4680, 4690, 4710 (6)  
 MBIO: 3000, 3010, 3030, 3280, 3430, 3470, 4010, 4020, 4410, 4440, 4480, 4520, 4530, 4570, 4580, 4600, 4610, 4670 (or 4672)

## Biochemistry Honours and Honours Co-op

### Proposed:

#### 4.2.2 Biochemistry Programs (offered Jointly by the Departments of Chemistry and Microbiology)

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>JOINT HONOURS 120 CREDIT HOURS</b>			
CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup>	CHEM 2210, CHEM 2220, CHEM 2280, CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 MBIO 1010, MBIO 2020	CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460	CHEM 4360, CHEM 4620, CHEM 4630, CHEM 4700 MBIO 4540
In University 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement <sup>2</sup> 3 credit hours chosen from COMP, MATH, or STAT <sup>3</sup>		<b>21 credit hours</b> selected from the list of Microbiology and Chemistry optional courses (listed above). 12 credit hours selected from the Faculty of Science <sup>5</sup>	
30 Hours	30 Hours	30 Hours	30 Hours
<b>JOINT HONOURS COOPERATIVE OPTION<sup>3</sup> 120 CREDIT HOURS</b>			
CHEM 1300, CHEM 1310 BIOL 1020, BIOL 1030 PHYS 1050 (or PHYS 1020), PHYS 1070 (or PHYS 1030) MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup>	CHEM 2210, CHEM 2220, CHEM 2280, CHEM 2360, CHEM 2370, CHEM 2400, CHEM 2470 MBIO 1010, MBIO 2020	CHEM 3570 MBIO 3410, MBIO 3450, MBIO 3460	CHEM 4360, CHEM 4620, CHEM 4630 MBIO 4540
In University 1 or Year 2 the following must be completed: 6 credit hours from the Faculty of Arts including the University Written English "W" requirement <sup>2</sup> 3 credit hours chosen from COMP, MATH, or STAT <sup>3</sup>		<b>24 credit hours</b> selected from the list of Microbiology and Chemistry Optional courses listed above. 12 credit hours selected from the Faculty of Science <sup>5</sup>	
30 Hours	30 Hours	30 Hours	30 Hours
		<b>Work Terms:</b> MBIO 3980, MBIO 3990, MBIO 4980 and/or MBIO 4990	

#### Chemistry and Microbiology Option Courses for Biochemistry Honours Students:

CHEM: 2290, 3400 3360, 3370, 3390, 3490, 3580, **4370**, 4570, 4580, 4590, 4600, 4640, 4650, 4670, 4680, 4690, 4710 (6)  
 MBIO: 3000, 3010, 3030, 3280, 3430, 3470, 4010, 4020, 4410, 4440, 4480, 4520, 4530, 4570, 4580, 4600, 4610, 4670 (or 4672)

#### Summary of Changes:

1. Remove CHEM 4370 as a required course in both Honours and Honours Co-op.
2. Increase hours to be selected from the list of Micro and Chemistry options from 18 to 21(Honours) and 21 to 24 (Co-op).
3. Add CHEM 4370 to the Chemistry and Microbiology Option list

## Biological Sciences

### Modification:

#### BIOL 3242 Vascular Flora of Manitoba Cr.Hrs. 3

(formerly BOTN 3070, 001.307) A survey of the vascular plants of Manitoba emphasizing identification, nomenclature and classification, and including brief accounts of the distribution and post-glacial history of the main floristic associations within the province. Students must submit a collection of at least 20 different vascular plants identified to species. A guide to the collection should be obtained from the Department of Biological Sciences office in the Spring/Summer prior to commencing the course. Prerequisite: BIOL 1010 (or equivalent – BIOL 1011, 071.101)(B); or one of BIOL 1030, BIOL 1031 or the former 071.125 (C).

## NET CHANGE IN CREDIT HOURS: 0

Program modification:

The Department is proposing program modifications to the Honours and 4-Year Major programs.

### Delete Major and Honours: "No Theme Selected" Theme Option

#### 4.3.6 Biological Sciences – Program Charts

HONOURS: No Theme Selected (incl. Co-operative Option) 120 CREDIT HOURS			
BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000	BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260 Plus one additional course from either Group A or Group B	BIOL 3100, BIOL 3300 Choose one of the following: BIOL 3450, BIOL 3470, BIOL 3472 30 credit hours of 3000 or 4000 level Biology courses* (courses from outside Biology may be approved by the theme advisor). 15 credit hours of approved electives	BIOL 4100 (6)
In University 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200, MATH 1300 <sup>1</sup> , MATH 1500 <sup>1</sup> , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course 18 credit hours of approved electives		<b>Work Terms (if Co-op Selected):</b> BIOL 3980, BIOL 3990	<b>Work Terms (if Co-op Selected):</b> BIOL 4980, BIOL 4990 (if necessary)
30 Hours	30 Hours	30 Hours	30 Hours

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
4-YEAR MAJOR: No Theme Selected (incl. Co-op) <sup>6</sup> 120 CREDIT HOURS (Courses listed in chart below and electives)			
BIOL 1020, BIOL 1030 CHEM 1300, CHEM 1310 STAT 1000	BIOL 2300, BIOL 2500, BIOL 2520 Choose one course from each of: Group A: BIOL 2200, BIOL 2210 Group B: BIOL 2240, BIOL 2242, BIOL 2260 Plus one additional course from either Group A or Group B	BIOL 3300 Choose one of the following: BIOL 3450, BIOL 3470, BIOL 3472 30 credit hours of 3000 or 4000 level Biology courses* (courses from outside Biology may be approved by the theme advisor). Enough elective credit hours required to total 120 credit hours for the program.	
In University 1 or Year 2 the following must be completed: 3 credit hours of Mathematics or Physics chosen from: MATH 1200, MATH 1300 <sup>1</sup> , MATH 1500 <sup>1</sup> , PHYS 1020 or PHYS 1050 6 credit hours from the Faculty of Arts, including a required "W" course		<b>Cooperative Option Requirements (if selected):</b> BIOL 3100 <sup>6</sup> , BIOL 3980, BIOL 3990	<b>Cooperative Option Requirements (if selected):</b> BIOL 4980, BIOL 4990 (if necessary)
30 Hours	30 Hours	30 Hours	30 Hours

**Rationale:** The Department of Biological Sciences is requesting the deletion of the "no theme" option for the following reasons:

- 1) Very few students have opted for this theme
- 2) With the lack of students opting to take this theme option removal of the "no theme" will streamline the options available and make course choice less confusing.

## Mathematics

### Deletions:

MATH 4900 Project Course in Applied Mathematics 1 Cr.Hrs. 3	-3
MATH 4960 Topics in Mathematics 2 Cr.Hrs. 6	-6

### Introduction:

MATH 4910 Project Course in Mathematics Cr.Hrs. 3 +3  
A research project chosen by the student in consultation with the department head and an appropriate supervising Faculty member. A written report will be required, to be submitted by the end of the term. An oral examination may be required. This course is restricted to students in the fourth year of the Honours or Major program in Mathematics and is not available to Graduate Students. This course may not be held for credit with MATH 4900 (136.490).  
Prerequisite: consent of department.

### Modifications:

MATH 3120 Applied Discrete Mathematics Cr.Hrs. 3  
(Lab required) (formerly 136.312) Sets, groups, graphs, and Boolean algebra. For Engineering students only. Not to be held with COMP 2130 (074.213) or the former 074.212. Prerequisites: ECE 2220 (C) and MATH 2130 (C).

MATH 4920 Topics in Mathematics Cr.Hrs. 3  
(formerly 136.492) Topics of current interest in Mathematics or Applied Mathematics upon the interests and requirements of students and faculty, and will include specialized topics not available in regular course offerings: Prerequisite: consent of department.

**NET CHANGE IN CREDIT HOURS: -6**

## Microbiology

### Modifications:

MBIO 2410 Essentials of Molecular Biology Cr.Hrs. 3  
An introduction to the mechanisms, themes and patterns that are present in the molecular biology of both eukaryotic and prokaryotic organisms. The applications of molecular biology to disciplines such as genomics, applied bioinformatics and medical microbiology will be discussed. Not available to students who have previously obtained credit in, or are currently enrolled in the following courses: BIOL 2500, BIOL 2501, MBIO 2020, MBIO 2021, the former MBIO 2100 (MBIO 2101), MBIO 3410 or MBIO 3411. Prerequisite: one of grade 12 Biology, grade 12 Chemistry, BIOL 1000, CHEM 1000, or any higher level Chemistry or Biology course; or consent of department. NOTE: MBIO 2410 is intended for students outside of Microbiology and Biological Sciences who require an introduction to molecular biology, such as those with interests in bioinformatics, biophysics, or bioengineering. It may be used to fulfill Microbiology Major or Honours program course requirements if completed prior to the courses listed above, and it may serve as advanced Level Microbiology in the three-year general degree program.



MBIO 3980 Work Term 1 Cr.Hrs. 0

(formerly 060.398) Work assignments in business, industry or government for students registered in the Microbiology Honours or Major Cooperative program. Requires submission of a written report covering the work completed during the four-month professional assignment (Pass/Fail grade only). Prerequisite: MBIO 2370 (MBIO 2371) or CHEM 2370 (CHEM 2371).

MBIO 4520 Industrial Bioprocesses Cr.Hrs. 3

(Lab require) Bioprocesses for a range of commercially important healthcare and industrial products including antibiotics, vaccines, steroids, therapeutic recombinant proteins, monoclonal antibodies, and ethanol will be discussed. Other topics will include bioreactor design, metabolic engineering, applied genetic engineering and animal cell technology. This course may not be held for credit with MBIO 4510. Prerequisites: MBIO 3030 (or one of MBIO 2100 or MBIO 2101)(C); and one of MBIO 2370, MBIO 2371, CHEM 2370, CHEM 2371 (C).

MBIO 4610 Molecular Genetics of Eukaryotes Cr.Hrs. 3

(Lab required)(formerly 060.461) A comprehensive study dealing with replication and expression of DNA, genome structure, and the involvement of genes in diseases such as cancer. Priority will be given to Science Honours and Majors students. Check with the department for availability. Not to be held with MBIO 4612. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111)(C); and MBIO 3410 or MBIO 3411. BIOL 2500 (BIOL 2501, BOTN 2460, BOTN 2461) is recommended.

MBIO 4612 Molecular Genetics of Eukaryotes – Lectures Cr.Hrs. 3

A comprehensive study dealing with replication and expression of DNA, genome structure, and the involvement of genes in diseases such as cancer. Lecture material will be identical to that of MBIO 4610, but MBIO 4612 lacks the laboratory component. Honours and Majors students must register in MBIO 4610. Check with the department for availability. Not to be held with MBIO 4610. Prerequisites: MBIO 2020 (MBIO 2021) or MBIO 2110 (MBIO 2111)(C); and MBIO 3410 or MBIO 3411. BIOL 2500 (BIOL 2501, BOTN 2460, BOTN 2461) is recommended.

## **NET CHANGE IN CREDIT HOURS: 0**

### Statistics

#### Introductions:

STAT 3980 Work Term 1 Cr.Hrs. 0

0

Work assignment in business, industry, or government for students registered in the Statistics Honours or Major Co-operative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail). Prerequisites: STAT 3470 and STAT 3480.

STAT 3990 Work Term 2 Cr.Hrs. 0

0

Work assignment in business, industry, or government for students registered in the Statistics Honours or Major Co-operative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only). Prerequisite: STAT 3980.

STAT 4980 Work Term 3 Cr.Hrs. 0

0

Work assignment in business, industry, or government for students registered in the Statistics Honours or Major Co-operative Option. Requires submission of a written report covering the

work completed during the four-month professional assignment. (Pass/Fail grade only).  
Prerequisite: STAT 3990.

STAT 4990 Work Term 4 Cr.Hrs. 0 0  
Work assignment in business, industry, or government for students registered in the Statistics Honours or Major Co-operative Option. Requires submission of a written report covering the work completed during the four-month professional assignment. (Pass/Fail grade only).  
Prerequisite: STAT 4980.

Modification:

STAT 3490 Time Series Analysis Cr.Hrs. 3  
(formerly 005.349) Trend and seasonal components, exponential smoothing by the multiple regression method, the Box-Jenkins Methodology, analysis of seasonal data. Prerequisite: a grade of "C" or better in one of: STAT 3470 (005.347), STAT 3000, or the former STAT 3120 (005.312).

**NET CHANGE IN CREDIT HOURS: 0**

Program modifications:

The department is proposing program modifications to the Statistics Honours and Major programs, and the Joint Statistics – Actuarial Mathematics Honours program.

### **Statistics Honours Co-operative Option:**

Students interested in alternating academic terms and terms of paid employment as part of their Honours Statistics program may enter the Co-operative Option in April of their second year in Honours Statistics. This program provides students with a minimum experience of 12 months of paid employment by the time they graduate. It enables them to obtain work experience in research and industry with participating firms, government agencies and university units.

The course and grade requirements for entry to this option are the same as those required for entry to the regular Honours program (see above), as indicated in the chart. Students are required to complete the first and second year requirements of the program; and STAT 3470 and STAT 3480 before they begin their first employment term. Students should refer to the general faculty regulations for B.Sc.(Honours) Co-operative Option in Section 3.6.

**To continue** in the Honours Cooperative program a student must maintain a minimum GPA of 3.00, successfully complete each work term, and complete a minimum of 9 credit hours during each academic term. Students should note that the grade requirements for the Co-operative Option are the same as that for the regular Honours program (see above).

Students must check with the Co-op office for the April application deadline information. They will normally be notified of their provisional acceptance in the program by September. Acceptance into the program is dependent upon the student receiving an employment placement. Employment term positions available to the students will be approved by the department, and the employers will select the students they wish to employ. Students are advised that satisfying the entrance requirements does not guarantee a place in the Co-operative Option if the demand for places exceeds the number of places available. The department reserves the right to select the best qualified applicants.

Students are required to register in and pay fees for each employment term prior to the commencement of each employment term. Students will be required to submit an employment report upon the completion of each employment term.

### **Statistics Four Year Major Co-operative Option:**

Students interested in alternating academic terms and terms of paid employment as part of their Major program in Statistics may enter the Co-operative Option in April of their second year in Statistics. This program provides students with a minimum experience of 12 months of paid employment by the time they graduate. It enables them to obtain work experience in research and industry with participating firms, government agencies and university units.

The course and grade requirements for entry to this option are the same as those required for entry to the regular Major program. Students are required to complete the first and second year requirements of the program and STAT 3470 and STAT 3480 before they begin their first employment term. Students should refer to the general faculty regulations for B.Sc.(Major) Co-operative Option in Section 3.4.

**To continue** in the Four Year Major Co-operative program a student must maintain a minimum GPA of 2.00. Students should note that the grade requirements for the Co-operative Option are the same as that for the regular Major program (see above).

Students must check with the Co-op office for the April application deadline information. They will normally be notified of their provisional acceptance in the program by September. Acceptance into the program is dependent upon the student receiving an employment placement. Employment term positions available to the students will be approved by the department, and the employers will select the students they wish to employ. Students are advised that satisfying the entrance requirements does not guarantee a place in the Co-operative Option if the demand for places exceeds the number of places available. The department reserves the right to select the best qualified applicants.

Students are required to register in and pay fees for each employment term prior to the commencement of each employment term. Students will be required to submit an employment report upon the completion of each employment term.

## Proposed Statistics Honours with Co-operative option:

### 4.13.2 Statistics

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS (Including Co-operative Option)</b> 120 CREDIT HOURS (comprising courses listed in chart below, and electives)			
STAT 1000	STAT 2400 (B)	STAT 3050, STAT 3400 <sup>4</sup> , STAT 3470, STAT 3480, STAT 3800 <sup>4</sup>	STAT 4100, STAT 4200, STAT 4520, STAT 4530
MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup> , MATH 1300 <sup>1</sup>	MATH 2300, MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup>		
<p>The following courses must be taken in University 1 or Year 2:</p> <p>COMP 1010, STAT 2000, MATH 1200</p> <p>6 credit hours from the Faculty of Arts, which should include the required "W" course</p> <p>21 credit hours of elective courses - including courses to be chosen from an area of application outlined in note 2 below.<sup>2</sup></p>		<p>15 credit hours chosen from:</p> <p>STAT 3170, STAT 3380, STAT 3490, STAT 4170, STAT 4580, STAT 4590, STAT 4600, STAT 4630, STAT 4690, STAT 4700 with at least 9 credit hours at the 4000 level.</p> <p>6 credit hours chosen from:</p> <p>MATH 2202, MATH 2600, MATH 2800, MATH 3230, MATH 3540, MATH 3600, MATH 3700, MATH 3740 (6), MATH 3800, MATH 3810</p> <p>12 credit hours of approved elective courses - including courses to be chosen from an area of application outlined in note 2 below.<sup>2</sup></p>	
		<b>Co-op Requirements:</b>	<b>Co-op Requirements:</b>
		<u>STAT 3980</u>	<u>STAT 3990, STAT 4980, STAT 4990 (if a 4<sup>th</sup> work term selected)</u>
30 Hours	30 Hours	30 Hours	30 Hours
<b>HONOURS DOUBLE MINIMUM 120 CREDIT HOURS</b> By arrangement with the departments concerned			

#### NOTES:

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, or MATH 1520 may be taken in place of MATH 1500; MATH 1710 may be taken in place of MATH 1700. MATH 1690 may be taken in place of both MATH 1700 and 1500. MATH 2750 may be taken in place of MATH 2720 and 2730.

<sup>2</sup> Of the electives chosen as part of the Honours Degree, 18 credit hours are to be selected from one department which represents a field of application such as: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology or Sociology. (Mathematics and Computer Science are excluded from this list.) In consultation with the department, combinations of courses from a coherent area of studies may be selected.

<sup>3</sup> Of the electives chosen as part of the Major Degree, 15 credit hours must be selected from either, Computer Science and Mathematics, or from one of the following departments: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology, or Sociology.

<sup>4</sup> STAT 3400 and STAT 3800 have corequisites of MATH 2720 and MATH 2730. Therefore students who wish to take STAT 3400 and STAT 3800 should consider taking MATH 1300, MATH 1500 and MATH 1700 in University 1 or Year 2, as they are prerequisite to MATH 2720 and MATH 2730.

<sup>5</sup> IMPORTANT: The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

(The number 6 in brackets indicates a 6 credit hour course)

#### Rationale:

Introduction of Co-op work terms to the Statistics Programs.

## Proposed Statistics Major with Co-operative Option

### 4.13.2 Statistics

**FOUR YEAR MAJOR<sup>5</sup> (Including Co-operative Option)** 120 CREDIT HOURS (comprising courses listed in chart below, and electives)

STAT 1000	STAT 2400 (C+)	STAT 3050, STAT 3400 <sup>4</sup> , STAT 3470, STAT 3480, STAT 3800 <sup>4</sup>	STAT 4100, STAT 4200, STAT 4520, STAT 4530
MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup> , MATH 1300 <sup>1</sup>	MATH 2300, MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup>		
<b>The following courses must be taken in University 1 or Year 2:</b> COMP 1010, STAT 2000, MATH 1200  6 credit hours from the Faculty of Arts, which should include the required "W" course  21 credit hours of elective courses - including courses to be chosen from an area of application outlined in note 3 below <sup>3</sup> .		15 credit hours chosen from: STAT 3170, STAT 3380, STAT 3490, STAT 4170, STAT 4580, STAT 4590, STAT 4600, STAT 4630, STAT 4690, STAT 4700  6 credit hours chosen from: MATH 2202, MATH 2600, MATH 2800, MATH 3230, MATH 3540, MATH 3600, MATH 3700, MATH 3740 (6), MATH 3800, MATH 3810  12 credit hours of elective courses - including courses required for the chosen area of application outlined in note 3 below. <sup>3</sup>	
		<b>Co-op Requirements:</b>	<b>Co-op Requirements:</b>
		<b>STAT 3980</b>	<b>STAT 3990, STAT 4980, STAT 4990 (if a 4<sup>th</sup> work term is selected)</b>
30 Hours	30 Hours	30 Hours	30 Hours

#### NOTES:

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, or MATH 1520 may be taken in place of MATH 1500; MATH 1710 may be taken in place of MATH 1700. MATH 1690 may be taken in place of both MATH 1700 and 1500. MATH 2750 may be taken in place of MATH 2720 and 2730.

<sup>2</sup> Of the electives chosen as part of the Honours Degree, 18 credit hours are to be selected from one department which represents a field of application such as: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology or Sociology. (Mathematics and Computer Science are excluded from this list.) In consultation with the department, combinations of courses from a coherent area of studies may be selected.

<sup>3</sup> Of the electives chosen as part of the Major Degree, 15 credit hours must be selected from either, Computer Science and Mathematics, or from one of the following departments: Actuarial Mathematics, Biological Sciences, Microbiology, Economics, Psychology, or Sociology.

<sup>4</sup> STAT 3400 and STAT 3800 have corequisites of MATH 2720 and MATH 2730. Therefore students who wish to take STAT 3400 and STAT 3800 should consider taking MATH 1300, MATH 1500 and MATH 1700 in University 1 or Year 2, as they are prerequisite to MATH 2720 and MATH 2730.

<sup>5</sup> IMPORTANT: The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program.

(The number 6 in brackets indicates a 6 credit hour course)

#### Rationale:

Introduction of Co-op work terms to the Statistics Programs.

## B.Sc. Statistics – Actuarial Mathematics Joint Honours Degree

### Current:

#### 4.13.3 Statistics - Actuarial Mathematics Joint Honours Program

The Department of Statistics and the Warren Centre for Actuarial Studies and Research offer a joint Honours program for students wishing in depth study in Statistics and Actuarial Mathematics.

#### Entry Requirements:

**To enter** the Joint Honours program, students must have completed 24 credit hours with a minimum DGPA of 3.00. Students must also obtain a minimum grade of "B" in one of the following courses: an approved Written English course, (both of) ECON 1010 and ECON 1020, MATH 1300, MATH 1500, MATH 1700 or STAT 1000; and must also obtain a minimum grade of "B" in STAT 2000.

**To graduate** with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and a minimum grade of "C" on all courses that contribute to the 120 credit hours of the degree.

NOTE 1: For all ACT courses, "C+" is the minimum grade required for prerequisite purposes.

NOTE 2: In order to receive course credit for, and examination exemptions from, future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in the following courses: ECON 1010, ECON 1020, ACC 1100, FIN 2200, STAT 3470, and STAT 3490. Contact the Warren Centre for Actuarial Studies and Research for further information.

#### Recommended Electives:

ACT 4050, ACT 4150, ACT 4240; FIN 3410; COMP 1010; STAT 4630

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>JOINT HONOURS 120 CREDIT HOURS</b>			
STAT 1000, STAT 2000 (B)	STAT 2400, STAT 3400	STAT 3050, STAT 3480, STAT 3800	STAT 3470 <sup>4</sup> , STAT 3490 <sup>4</sup> , STAT 4100, STAT 4520, STAT 4530
ECON 1010 <sup>4</sup> , ECON 1020 <sup>4</sup>	ACT 2020, ACT 2120	ACT 2210, ACT 3130, ACT 3230, ACT 3530, ACT 4000	ACT 4060, ACT 4140, ACT 4340
MATH 1300 <sup>1</sup> , MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup>	ACC 1100 <sup>2,4</sup> , FIN 2200 <sup>2,4</sup> MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup>	MATH 2300 <sup>1</sup>	MSCI 2150 <sup>3</sup>
3 credit hour "W" course	COMP 1260 <sup>3</sup>		
6 credit hours of electives	3 credit hours of approved electives	3 credit hours of approved electives	3 credit hours of approved electives
30 Hours	30 Hours	30 Hours	30 Hours

#### NOTES:

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, or MATH 1520 may be taken in place of MATH 1500; MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of both of MATH 1500 and MATH 1700; MATH 2750 may be taken in place of both of MATH 2720 and MATH 2730; MATH 2352 (6) may be taken in place of MATH 2300.

<sup>2</sup> ACC 1100 and FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that these two courses be taken in Year 2 or 3. Note that ACC 1100 is a prerequisite for FIN 2200.

<sup>3</sup> COMP 1260 and MSCI 2150 may be taken in Year 2, 3 or 4. Note that COMP 1260 is a prerequisite for MSCI 2150.

<sup>4</sup> In order to receive course credit for, and examination exemptions from, future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in these courses.

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

## Proposed:

### 4.13.3 Statistics - Actuarial Mathematics Joint Honours Program

The Department of Statistics and the Warren Centre for Actuarial Studies and Research offer a joint Honours program for students wishing in depth study in Statistics and Actuarial Mathematics.

#### Entry Requirements:

**To enter** the Joint Honours program, students must have completed 24 credit hours with a minimum DGPA of 3.00. Students must also obtain a minimum grade of "B" in one of the following courses: an approved Written English course, (both of) ECON 1010 and ECON 1020, MATH 1300, MATH 1500, MATH 1700 or STAT 1000; and must also obtain a minimum grade of "B" in STAT 2000.

**To graduate** with the B. Sc. Honours degree, a student must achieve a minimum DGPA of 3.00 and a minimum grade of **"C+" on all required Actuarial Mathematics (ACT) courses** and a grade of "C" on all remaining courses that contribute to the 120 credit hours of the degree.

NOTE: In order to receive course credit for, and examination exemptions from, future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in the following courses: ECON 1010, ECON 1020, ACC 1100, FIN 2200, STAT 3470, and STAT 3490. Contact the Warren Centre for Actuarial Studies and Research for further information.

Recommended Electives:

**ACT 4000**, ACT 4150, ACT 4240; FIN 3410; COMP 1010; STAT 4630

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>JOINT HONOURS 120 CREDIT HOURS</b>			
STAT 1000, STAT 2000 (B)	STAT 2400, STAT 3400	STAT 3050, STAT 3480, STAT 3800	STAT 3470 <sup>3</sup> , STAT 3490 <sup>3</sup> , STAT 4100, STAT 4200, STAT 4520, STAT 4530
ECON 1010 <sup>3</sup> , ECON 1020 <sup>3</sup>	ACT 2020, ACT 2120	ACT 2210, ACT 3130, ACT 3230, ACT 3340, ACT 3530	ACT 4060, ACT 4140, ACT 4340
MATH 1300 <sup>1</sup> , MATH 1500 <sup>1</sup> , MATH 1700 <sup>1</sup> ,	ACC 1100 <sup>2,3</sup> , FIN 2200 <sup>2,3</sup>	MSCI 2150	
3 credit hour "W" course	MATH 2720 <sup>1</sup> , MATH 2730 <sup>1</sup>		
	MATH 2300 <sup>1</sup>		
6 credit hours of electives	3 credit hours of approved electives	3 credit hours of approved electives	3 credit hours of approved electives
30 Hours	30 Hours	30 Hours	30 Hours

#### NOTES:

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, or MATH 1520 may be taken in place of MATH 1500; MATH 1710 may be taken in place of MATH 1700; MATH 1690 may be taken in place of both of MATH 1500 and MATH 1700; MATH 2750 may be taken in place of both of MATH 2720 and MATH 2730; MATH 2352 (6) may be taken in place of MATH 2300.

<sup>2</sup> **Students are strongly urged to complete ACC 1100 in Year 1 when possible. FIN 2200 may be taken in Year 2, 3 or 4; however, it is strongly recommended that it be completed in Year 2. Note that ACC 1100 is a prerequisite for FIN 2200.**

<sup>3</sup> In order to receive course credit for, and examination exemptions from, future Society of Actuaries (SoA) and VEE courses, students must obtain a minimum grade of "B" in these courses.

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

#### Summary of changes:

1. Remove COMP 1260 from program and add STAT 4200 to year 4 of program.
2. Remove ACT 4000 from program and add ACT 3340 to year 3 of program to reflect changes to Actuarial Honours.
3. Shift MATH 2300 to year 2 and shift MSCI 2150 to year 3 to balance electives.
4. Alter "Note 2" to indicate the importance of completing ACC 1100 in Year 1 and FIN 2200 in Year 2.
5. Remove "Note 3" re: COMP 1260 – no longer a requirement in program. (The former Note 4 moves to Note 3).
6. Indicate minimum "C+" grade in ACT courses required for graduation (Mgmt. requirement).
7. Add ACT 4000 to the list of recommended electives. Remove ACT 4050 from list of recommended electives.



## Université de Saint Boniface

### Anthropology

#### Deletion:

ANTH 2391 Organisation sociale transculturelle: Introduction à l'ethnographie(B) Cr.Hrs.6 -6

#### Introduction:

ANTH 2001 Culture, société et pouvoir Cr.Hrs. 3 +3  
Aperçu des idées centrales à l'analyse des relations sociales, en mettant l'emphase sur l'individu, l'identité, le genre, la 'race', l'ethnicité, la classe sociale et la dynamique de caste. L'étudiante et l'étudiant ne peut pas se faire créditer à la fois ANTH 2001 et aucun de ANTH 2000, l'ancien ANTH 2390 ou l'ancien ANTH 2391. Préalables: [une note minimale de C dans un des cours suivants: ANTH 1220 (076.122), ANTH 1221 (076.122), ANTH 1520 (076.152), l'ancien 076.109 ou l'ancien 076.120] ou l'autorisation écrite de la professeure ou du professeur.

#### Modifications:

ANTH 3381 Problèmes sociaux contemporains et l'anthropologie (B) Cr.Hrs. 3  
(ancien 076.338) Étude de la pauvreté, de la responsabilité sociale, du colonialisme, du racisme, de l'éducation, de la dégradation de l'écologie et de la violence du point de vue anthropologique. L'étudiant(e) ne peut se faire créditer à la fois le ANTH 3381 (076.338) et le ANTH 3380 (076.338). Préalable: une note minimale de C dans [ANTH 2000 ou ANTH 2001 + un cours de 3 cr.hrs. de niveau 2000 du group B] ou [l'ancien ANTH 2391 (076.239) ou l'ancien ANTH 2390 (076.239)] ou l'autorisation écrite de la professeure ou du professeur.

ANTH 3471 Histoire de la pensée anthropologique (B) Cr.Hrs. 3  
(ancien 076.347) Étude du développement des principaux paradigmes des courants théoriques et méthodologiques en anthropologie. L'étudiant(e) ne peut se faire créditer à la fois le ANTH 3471 (076.338) et le ANTH 3470 (076.338). Préalable: une note minimale de C dans [ANTH 2000 ou ANTH 2001 + un cours de 3 cr.hrs. de niveau 2000 du group B] ou [l'ancien ANTH 2391 (076.239) ou l'ancien ANTH 2390 (076.239)] ou l'autorisation écrite de la professeure ou du professeur.

ANTH 3751 Globalisation et mondialisation: une perspective anthropologique (B) Cr.Hrs. 3  
(ancien 076.375) Perspective anthropologique sur la mondialisation et sur l'expansion du capitalisme dans les zones périphériques du monde. Étude de la transformation des sociétés et culture autochtones; de l'émergence des conflits ethniques; et de la résistance. Approche comparative de processus transnationaux et globaux particuliers. L'étudiant(e) ne peut se faire créditer à la fois le ANTH 3751 (076.375) et le ANTH 3750 (076.375). Préalable: une note minimale de C dans ANTH 2000 ou ANTH 2001 ou ANTH 1220 (076.122) ou ANTH 1221 (076.122) ou ANTH 1520 (076.152) ou l'ancien ANTH 2390 (076.239) ou l'ancien ANTH 2391 (076.239) ou l'ancien 076.120 ou l'autorisation écrite de la professeure ou du professeur.

**NET CHANGE IN CREDIT HOURS: -3**

## Spanish

### Deletion:

SPAN 1181 Introduction à l'espagnol Cr.Hrs. 6

-6

### Introduction:

SPAN 1171 Introduction à l'espagnol I Cr.Hrs. 3

+3

(Laboratoire requis) Ce cours est conçu pour des étudiants et des étudiantes ayant très peu ou n'ayant aucune connaissance de l'espagnol. Les étudiants et les étudiantes dont la langue maternelle est l'espagnol ou possédant des crédits d'espagnol 40 S ou l'équivalent ne peuvent s'inscrire à ce cours sans permission spéciale. On ne peut se faire créditer SPAN 1171 et aucun des cours suivants: SPAN 1180 (044.118) ou l'ancien SPAN 1181 (ancien TRAD 1181 ou ancien 122.118). Ce cours n'est pas accessible aux étudiants qui ont déjà obtenu des crédits pour SPAN 1262 ou l'ancien SPAN 1260 (044.126) ou SPAN 1261 (ancien TRAD 1261 ou ancien 122.126) ou SPAN 1272 ou l'ancien SPAN 1270 (044.127) ou SPAN 1271 (ancien TRAD 1271 ou ancien 122.127) ou SPAN 1280 ou SPAN 1290.

### Modifications:

SPAN 1191 Introduction à l'espagnol II Cr.Hrs. 3

(Laboratoire requis) Ce cours est destiné aux étudiants qui connaissent déjà l'alphabet et le système de son espagnols, qui ont une compréhension élémentaire de la langue, et qui maîtrisent une base de la communication et de l'écriture équivalentes à celle qui serait obtenue au cours SPAN 1171. Les étudiants ne peuvent obtenir de crédits pour SPAN 1191 et aucun des cours suivants: SPAN 1190, SPAN 1180 (044.118), ancien SPAN 1181 (ancien TRAD 1181 ou ancien 122.118). Ce cours n'est pas accessible aux étudiants qui ont déjà obtenu des crédits pour SPAN 1262 ou l'ancien SPAN 1260 (044.126) ou SPAN 1261 (ancien TRAD 1261 ou ancien 122.126) ou SPAN 1272 ou l'ancien SPAN 1270 (044.127) ou SPAN 1271 (ancien TRAD 1271 ou ancien 122.127) ou SPAN 1280 ou SPAN 1290. Préalable: SPAN 1171 ou l'autorisation écrite de la professeure ou du professeur.

SPAN 1261 Espagnol intermédiaire Cr.Hrs. 3

(Laboratoire requis) Révision intensive de la grammaire et du vocabulaire étudiés dans SPAN 1171, SPAN 1180 (044.118), l'ancien SPAN 1181 (ancien TRAD 1181, ancien 122.118), SPAN 1190, SPAN 1191, ou en Espagnol 40S. Pratique et perfectionnement des connaissances en classe et au laboratoire. On ne peut se faire créditer SPAN 1261 et aucun des cours suivants: SPAN 1260 (044.126), SPAN 1262, SPAN 1280, SPAN 1290. Préalable: une note minimale de C dans SPAN 1171 et SPAN 1191 ou l'ancien SPAN 1181 (TRAD 1181 ou 122.118) ou SPAN 1180 (044.118) ou SPAN 1190 ou l'équivalent en Espagnol 40S, ou l'autorisation écrite de la professeure ou du professeur.

**NET CHANGE IN CREDIT HOURS: -3**

## Biological Sciences

### Modifications:

#### BIOL 1021 Biologie I: thèmes et principes Cr.Hrs. 3

(Labo requis) (ancien 071.102) Les principes unificateurs à la base de la biologie dont la biologie cellulaire, la bioénergétique, la division cellulaire, la génétique et l'évolution. Pour ceux et celles qui veulent suivre un programme de sciences biologiques avec majeure ou spécialisation. On ne peut se faire créditer BIOL 1021 et BIOL 1020, BIOL 1001, BIOL 1000 (071.100) ou BIOE 2590 (034.259) ou les anciens 071.125, 071.123, 071.201. Préalables: Biologie 40S (ou l'équivalent), un cours de Mathématique 40S (ou l'équivalent) et un des deux cours suivants: Chimie 40S ou Physique 40S (ou l'équivalent); ou BIOL 1001 ou BIOL 1000 avec une note minimale de C). Si BIOL 1001 (BIOL 1000) sert de préalable à BIOL 1021 (BIOL 1020), on ne peut se faire créditer BIOL 1001 et BIOL 1021 dans le cadre d'un programme. Donné à l'Université de Saint-Boniface.

#### BIOL 2411 Physiologie du corps humain I Cr.Hrs. 3

(anciens ZOOL 2531 et 002.253) Étude des principaux mécanismes de contrôle du corps (systèmes nerveux et endocrinien) ainsi que des systèmes musculaire et reproducteur. On ne peut se faire créditer BIOL 2411 et BIOL 2410 (ZOOL 2531, ZOOL 2530, 022.253) et BIOL 3460 (ZOOL 3530, 022.353). Préalable: une note minimale de C dans BIOL 1031 ou BIOL 1030 (071.125) ou dans BIOL 1413 ou BIOL 1412 (ZOOL 1330, 022.133) ou une note minimale de C+ dans BIOL 1001 ou BIOL 1000 (071.100) et dans BIOL 1011 ou BIOL 1010 (071.101). Donné seulement à l'Université de Saint-Boniface.

#### BIOL 3291 Plantes médicinales et hallucinogènes Cr.Hrs. 3

Un survol botanique et historique des plantes médicinales, hallucinogènes et toxiques utilisées dans diverses cultures. On ne peut se faire créditer BIOL 3291 et BIOL 3290. Préalables: Minimum de 30 heures crédits universitaires ou le consentement du département. Donné seulement à l'Université de Saint-Boniface.

#### BIOL 3501 Génétique 2I Cr.Hrs. 3

(Labo requis) Ce cours est le complément du cours d'introduction à la génétique BIOL 2501 (ou BOTN 2461, BOTN 2460, 001.246) et présente les divers aspects de la liaison génique et la recombinaison génique, la fonction des gènes, l'allélisme, les mutations et la réparation, l'utilisation des bactéries et des virus comme outils génétique, les bases de la génétique du développement et l'hérédité extranucléaire. On ne peut se faire créditer le BIOL 3501 et BIOL 3500. Préalable: une note minimale de C dans un de BIOL 2501 ou BIOL 2500 (BOTN 2461, BOTN 2460, 001.246) ou PLNT 2520 (039.252, 039.209). Préalable ou concomitant: un de CHEM 2371 ou CHEM 2370 (002.237), MBIO 2371 ou MBIO 2370 (060.237), CHEM 2780 (002.278) ou MBIO 2780 (060.278) ou le consentement du département. Donné seulement à l'Université de Saint-Boniface.

**NET CHANGE IN CREDIT HOURS: 0**

## Chemistry

### Modifications:

CHEM 2471 Introduction à la chimie analytique Cr.Hrs. 3

(Labo requis) (ancien 002.247) Un cours de chimie analytique quantitative fournit une formation utile à presque tous les scientifiques. Ce cours outille les étudiants et étudiantes avec les principes théoriques à la base des méthodes analytiques, avec l'habileté de planifier et d'exécuter des expériences, et ensuite d'interpréter les résultats. On ne peut se faire créditer CHEM 2471 et CHEM 2470. Préalables: une note minimale de C dans CHEM 1311 ou CHEM 1310 (002.131) et un cours de 3 crédits de Mathématiques à l'exception de l'ancien 136.100, MATH 1010, MATH 1190, MATH 1191, MATH 1020 ou FA 1020. Donné à l'Université de Saint-Boniface.

CHEM 3571 Chimie biophysique Cr.Hrs. 3

L'application de la chimie physique aux problèmes biologiques avec l'emphase sur l'interprétation quantitative. Les sujets comprennent la cinétique enzymatique, la bioénergétique, les processus de transport ainsi que la spectroscopie. On ne peut se faire créditer CHEM 3571 et CHEM 3570. Préalables: CHEM 2361, CHEM 2360, MBIO 2361 ou MBIO 2360 (060.237) et MATH 1501 ou MATH 1500 (ou l'équivalent). CHEM 2281 est recommandé. Donné seulement à l'Université de Saint-Boniface.

#### **NET CHANGE IN CREDIT HOURS: 0**

##### English

Modifications:

ENGL 1061 Anglais langue seconde I Cr.Hrs. 3

(ancien 004.106) Révision et approfondissement de la grammaire anglaise. Élargissement du vocabulaire propre à la langue soutenue et sensibilisation aux pièges posés par les gallicismes d'ordre lexical et syntaxique. Étude des principes fondamentaux de rédaction: style, organisation et argumentation. Étude pratique de l'anglais parlé dans diverses situations. Expressions idiomatiques. Amélioration de la prononciation. Apprentissage des principes de base et exercices pratiques d'art oratoire en anglais. On ne peut se faire créditer le ENGL 1061 (004.106) et l'ancien 004.104. Préalable: Admission sur recommandation du SPL. Voir section 9.14 (Profil linguistique en anglais) de l'annuaire de l'USB. Donné à l'Université de Saint-Boniface.

ENGL 1071 Anglais langue seconde II Cr.Hrs. 3

(ancien 004.107) Suite d'ENGL 1061. Révision et approfondissement de la grammaire anglaise. Élargissement du vocabulaire propre à la langue soutenue et sensibilisation aux pièges posés par les gallicismes d'ordre lexical et syntaxique. Étude des principes fondamentaux de rédaction, notamment sur le plan du style, l'usage idiomatique, et le vocabulaire. Étude pratique de l'anglais parlé dans diverses situations. Expressions idiomatiques. Amélioration de la prononciation. Apprentissage des principes de base et exercices pratiques de l'art oratoire en anglais. On ne peut se faire créditer ENGL 1071 (004.107) et l'ancien 004.105. Une note minimale de C (60%) est requise pour réussir ENGL 1071. Préalable [une note minimale de C dans ENGL 1061 (ancien 004.106) ou l'ancien 004.104] ou la recommandation du Service de perfectionnement linguistique.

#### **NET CHANGE IN CREDIT HOURS: 0**

## Francais

Modification:

FRAN 1091 Rédaction universitaire Cr.Hrs. 3

(ancien 144.109) Initiation aux méthodes de travail universitaire: les techniques du résumé, du compte rendu et de la dissertation. Préalable: une note minimale de C est requise dans FRAN 1001 pour les étudiants et étudiantes qui l'auront suivi.

**NET CHANGE IN CREDIT HOURS: 0**

## Microbiology

Modification:

MBIO 4601 Génétique moléculaire des procaryotes Cr.Hrs. 3

(Labo requis)(ancien 060.460) Étude détaillée de la réplication, de l'expression, de la mutagenèse de la réparation de l'ADN ainsi que des éléments génétiques transposables des bactéries et des virus. On ne peut se faire créditer MBIO 4601 et MBIO 4600 et MBIO 4602 ou les anciens 060.452 ou 060.456. Préalables: une note minimale de C dans MBIO 2021 ou MBIO 2020 (MBIO 2111, MBIO 2110, 060.211) et une note minimale de C dans un de MBIO 2371, MBIO 2370 (060.237), CHEM 2371 ou CHEM 2370 (002.237). BIOL 2501 ou BIOL 2500 (BOTN 2461, BOTN 2460, 001.246) est recommandé. Donné seulement à l'Université de Saint-Boniface.

**NET CHANGE IN CREDIT HOURS: 0**

## Sociology

Modification:

SOC 3391 Théories sociologiques contemporaines Cr.Hrs. 3

Comparaison systématique des théories sociologiques contemporaines. Évolution compétitive des diverses écoles en sociologie et surtout l'apport des théoriciens les plus importants. On ne peut se faire créditer SOC 3391 et SOC 3390 (077.339). Préalable: Une note minimale de C dans SOC 2220 (077.222) ou SOC 2221.

**NET CHANGE IN CREDIT HOURS: 0**

## **Report of the Senate Committee on Course and Curriculum Changes – Deletion of Lapsed Courses Reported to Senate for Information**

---

### **Preamble**

1. The terms of reference for the Senate Committee on Curriculum and Course Changes (SCCCC) are found on the website at:  
[http://www.umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/497.htm](http://www.umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/497.htm). SCCCC is “to recommend to Senate on the introduction, modification or abolition of undergraduate programs, curricula or courses.”
2. Senate approved the process for deletion of lapsed courses on May 14, 2008. This report represents the third iteration of the process and is presented to Senate for information.

### **Observations**

1. A list of courses not offered in the past five years was compiled by the Registrar’s Office and distributed to faculties.
2. 246 undergraduate courses were identified by the Registrar’s Office as not having been offered in the past five years.
3. The Committee observed that process for the deletion of lapsed courses is working well, with respect to the objective of encouraging academic units to review and reflect on whether particular courses should be deleted or retained. It was noted that the School of Agriculture will delete one-third of the lapsed courses identified for that unit, and the Faculty of Arts will delete one-quarter of the lapsed courses on its list.
4. As in previous years, the Committee noted that some of the rationales provided for retaining courses were not compelling. The Committee discussed the feasibility of tracking courses that are retained, to monitor whether they appear on future lists of lapsed courses and for how many years. The Committee acknowledged that there are sometimes reasons for courses continuing to appear on the list; for example, where there are challenges related to sequencing in smaller programs.
5. Course deletions (55) from the following units were identified:

**School of Agriculture**

**Faculty of Arts**

**Faculty of Engineering**

**I.H. Asper School of Business – Faculty of Management**

**Faculty of Nursing**

**Faculty of Science**

**Universitaire de Saint-Boniface**

Respectfully submitted,

Professor H. Frankel, Chair  
Senate Committee on Curriculum and Course Changes

Course Deletions:

School of Agriculture

***NET CHANGE IN COURSES: -16***

Faculty of Arts

***NET CHANGE IN COURSES: -144***

Faculty of Engineering

***NET CHANGE IN COURSES: -11***

I.H. Asper School of Business – Faculty of Management

***NET CHANGE IN COURSES: -15***

Faculty of Nursing

***NET CHANGE IN COURSES: -6***

Faculty of Science

***NET CHANGE IN COURSES: -3***

Universitaire de Saint-Boniface

***NET CHANGE IN COURSES: -15***

Attachment: Undergraduate Courses for Deletion, November 21, 2011

## Undergraduate Courses for Deletion

November 21, 2011

Academic Unit	Subject	Number	Credit Hours	Title
School of Agriculture	PLNT	0660	4	Plant Propagation
	PLNT	0670	3	Landscape Plants
	PLNT	0680	3	Landscape Design
	PLNT	0700	3	Nursery Management
	PLNT	0710	3	Greenhouse Crop Production
Faculty of Arts	ANTH	2360	3	Ethnohistory of Sub-Saharan Africa (B)
	ANTH	4770	3	Seminar in Contemporary North American Native Cultures (B)
	ASIA	3660	6	Advanced Mandarin Comprehension
	ECON	2280	6	Social Welfare and Human Resources
	ECON	2560	3	Corporations in the Global Economy
	ECON	3660	6	Economic Ideas and Social Institutions
	ENGL	2840	3	Literature of Australia, New Zealand, and/or South Asia
	ENGL	4660	3	Honours Seminar 4
	FREN	2760	3	Le théâtre français du vingtième siècle (B)
	FREN	2850	3	Phonétique française (A)
	FREN	3120	3	Poésie française du vingtième siècle (B)
	GRMN	2490	3	Special Topics in German 2
	NATV	4000	3	Field Course
	PHIL	1510	6	Historical Introduction to Philosophy
	PHIL	2720	3	Twentieth-Century European Philosophy: Phenomenology
	PHIL	2820	6	Existentialism
	PHIL	3690	3	The Rise of Analytic Philosophy
	PHIL	3730	3	Philosophy of Psychology
	PHIL	4530	3	Historical Topics 2
	PHIL	4570	3	Modal Logic
	POL	2320	6	An Outline of Polish Literature
	PSYC	3480	3	Social Learning and Psychopathy
	RLGN	3150	3	Bhuddism in East Asia
	RLGN	3790	6	Prophets of Ancient Israel (A)
	RLGN	4120	3	Augustine (A)
	SEM	1120	6	Biblical Hebrew (A)
	SEM	2210	6	Modern Hebrew Literature
	SEM	2250	6	Rabbinic Hebrew



## Undergraduate Courses for Deletion

November 21, 2011

Academic Unit	Subject	Number	Credit Hours	Title
Faculty of Arts	SEM	2280	6	Introduction to Hebrew Literature
	SEM	3380	6	The Creation of Modern Hebrew
	SPAN	2540	3	Spanish American Literature 2
	UKRN	2420	3	Ukrainian Canadian Literature
	UKRN	2430	3	Ukrainian Canadian Folklore
	UKRN	3660	3	Ukrainian Literature in the West
	UKRN	3670	3	Contemporary Ukrainian Literature
	UKRN	3700	3	Church Slavic: Ukrainian Version
Faculty of Engineering	MECH	4240	4	Design for Manufacturing
	MECH	4710	4	Engineering Systems Simulation
	ECE	3690	3	Engineering Law, the Environment, and Society
Faculty of Management	ACT	3330	3	Actuarial Models 3
	IDM	3000	3	Aboriginal Business Context: Influences and Impacts
	IDM	4090	3	Aboriginal Business Leadership
	MSCI	4230	3	Simulation Models in Management Science
	OPM	4630	3	Production and Inventory Systems: Planning and Control
Faculty of Nursing	NURS	3370	6	Primary Care Skills: Clinical Consolidation
Faculty of Science	MATH	4900	3	Project Course in Applied Mathematics 1
St. Boniface University	ANTH	2351	3	Ethnologie de l'Afrique sous-saharienne (B)
	ANTH	2361	3	Ethnohistoire de l'Afrique sous-saharienne (B)
	ANTH	3211	3	Évolution de la culture (B)
	POLS	3931	6	La prise de décisions en politique étrangère

## **REPORT OF THE SENATE COMMITTEE ON AWARDS**

### **Preamble**

Terms of reference for the Senate Committee on Awards include the following responsibility:

On behalf of Senate, to approve and inform Senate of all new offers and amended offers of awards that meet the published guidelines presented to Senate on November 3, 1999, and as thereafter amended by Senate. Where, in the opinion of the Committee, acceptance is recommended for new offers and amended offers which do not meet the published guidelines or which otherwise appear to be discriminatory under the policy on the *Non-Acceptance of Discriminatory Awards*, such offers shall be submitted to Senate for approval. (Senate, October 7, 2009)

### **Observations**

At its meeting of October 24, 2011 the Senate Committee on Awards approved eight new offers, eight amended offers, and one withdrawal set out in Appendix A of the *Report of the Senate Committee on Awards* (dated October 24, 2011).

### **Recommendations**

On behalf of Senate, the Senate Committee on Awards recommends that the Board of Governors approve eight new offers, eight amended offers, and one withdrawal as set out in Appendix A of the *Report of the Senate Committee on Awards* (dated October 24, 2011). These award decisions comply with the published guidelines of November 3, 1999, and are reported to Senate for information.

Respectfully submitted,

Dr. Philip Hultin  
Chair, Senate Committee on Awards

## **MEETING OF THE SENATE COMMITTEE ON AWARDS**

### **Appendix A October 24, 2011**

#### **1. NEW OFFERS**

##### **Harry Cross Music Bursary**

William Victor Humphreys Black has established an endowment fund at the University of Manitoba, with a bequest of \$169,061 in 2011. The purpose of the fund is to provide bursaries for students in the Marcel A. Desautels Faculty of Music. The available annual interest from the fund will be used to offer one or more bursaries to undergraduate students who:

- (1) are enrolled full-time in the Marcel A. Desautels Faculty of Music;
- (2) (i) as entering students, have achieved a minimum 70% (or equivalent) on those high school courses considered for admission, or (ii) as continuing students, have achieved a minimum degree grade point average of 2.5;
- (3) have demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee will have the discretion to determine the number and value of awards offered each year based on the available revenue.

The selection committee will be the Scholarship and Awards Committee of the Marcel A. Desautels Faculty of Music.

The Board of Governors of the University of Manitoba has the right to modify the terms of this award if, because of changed conditions, it becomes necessary to do so. Such modification shall conform as closely as possible to the expressed intention of the donor in establishing the award.

##### **David Kaufman Scholarship**

David S. Kaufman (B.A./47) has established an endowment fund at the University of Manitoba, with a bequest of \$10,029, in 2010. The purpose of the fund is to provide awards for students at the University. Initially, the fund will be used to offer scholarships for students in the Faculty of Science. The terms may be amended in the future to change the beneficiaries based on the University's priorities for student awards. The available annual interest from the fund will be used to offer one scholarship to an undergraduate student who:

- (1) has completed at least 24 credit hours of study;
- (2) is enrolled full-time in the Faculty of Science;
- (3) has achieved a minimum degree grade point average of 4.0.

The selection committee will be named by the Director of Financial Aid and Awards (or designate).

The Board of Governors of the University of Manitoba has the right to modify the terms of this award if, because of changed conditions, it becomes necessary to do so. Such modification shall conform as closely as possible to the expressed intention of the donor in establishing the award.

### **University of Manitoba Tri-Council Top-Up Award**

The Faculty of Graduate Studies and academic departments at the University of Manitoba offer a cost shared program to top-up the value of graduate scholarships and fellowships awarded through select Tri-Council funding programs. The University of Manitoba Tri-Council Award program is subject to the availability of funds from an eligible student's home department, faculty, or advisor and from the Faculty of Graduate Studies. The Faculty of Graduate Studies will match the contribution from the home department, faculty, or advisor up to a maximum amount to be determined by the Faculty of Graduate Studies each year.

The University of Manitoba Tri-Council Top-Up Award will be offered to graduate students who:

- (1) are new recipients of a Tri-Council award offered through one of the following programs: CIHR Canada Graduate Scholarships Master's Awards, CIHR Canada Graduate Scholarships Doctoral Awards, NSERC Postgraduate Scholarships, NSERC Canada Graduate Student Scholarships, SSHRC Canada Graduate Scholarships, SSHRC Doctoral Fellowships;
- (2) are starting their Tri-Council award in May, September, or January of the academic session for which the University of Manitoba Tri-Council Top-Up Award is tenable.

Recipients of the Vanier Canada Graduate Scholarship and the Manitoba Health Research Council Grants and Awards are not eligible for the University of Manitoba Tri-Council Top-Up Award.

The selection committee will be named by the Dean of the Faculty of Graduate Studies (or designate).

### **Eugene Reimer Scholarship for Biological Sciences**

Mr. Eugene Reimer (M.Sc./77) has established an endowment fund at the University of Manitoba, with an initial gift of \$150,000 in 2011. The purpose of the fund is to provide scholarships for graduate students pursuing studies in botany. The available annual interest from the fund will be used to offer one scholarship to a graduate student who:

- (1) is enrolled full-time in the Faculty of Graduate Studies, in a Masters or Doctoral program delivered by the Department of Biological Sciences;
- (2) has achieved a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours (or equivalent);
- (3) is undertaking or has proposed to undertake thesis research with a focus on botanical biology or ecological biology involving plants.

The Scholarship is renewable for either one year for Master's or three years for Doctoral students, provided that the recipient continues to:

- (1) be registered full-time in the Faculty of Graduate Studies, in a Masters or Doctoral program in the Department of Biological Sciences;
- (2) have achieved a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours of study (or equivalent);
- (3) undertake thesis research with a focus on either botanical biology or ecological biology involving plants.

Candidates will be required to submit an application that will consist of a description of their proposed or ongoing research (maximum 500 words), current academic transcript(s), and two academic letters of reference from professors at a post-secondary institution.

Only one recipient may hold the Scholarship at any one time. Normally, the Eugene Reimer Scholarship for Biological Sciences may not be held together with other awards having a total value of \$15,000 or greater, including University awards and external awards funded by provincial or federal government programs.

The Dean of the Faculty of Graduate Studies (or designate) will ask the Head of the Department of Biological Sciences (or designate) to name the selection committee.

### **Babs Asper Memorial Scholarship for Peace and Conflict Studies**

In memory of Babs Asper (B.A./54), Dr. Arthur V. Mauro has established an endowment fund at the University of Manitoba, with an initial gift of \$100,000 in 2011. The Manitoba Scholarship and Bursary Initiative has made a contribution to the fund. The fund will be used to offer a scholarship for students in the Arthur V. Mauro Centre for Peace and Justice who embody public service based on a record of community service. The available annual interest from the fund will be used to offer one scholarship to a student who:

- (1) is enrolled full-time in the Faculty of Graduate Studies, in the first year of either the Joint M.A. in Peace and Conflict Studies or the Ph.D. in Peace and Conflict Studies;
- (2) has achieved a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours of study (or equivalent);
- (3) embodies public service based on a demonstrated record of community service.

The Scholarship is renewable for one year for Master's students, and up to three years for Doctoral students provided that the recipient:

- (4) continues to be registered full-time in the Faculty of Graduate Studies, in either the Joint M.A. in Peace and Conflict Studies or the Ph.D. in Peace and Conflict Studies;
- (5) maintains a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours of study (or equivalent);
- (6) is in good standing in his or her degree program.

Candidates will be required to submit an application that includes (i) a current academic transcript(s), (ii) a statement (maximum 500 words) describing their record of community service, and (iii) two letters of recommendation (maximum 500 words each); one from a faculty member at a post-secondary institution and one from a representative of the broader community. The letters should describe how the candidate has met the requirements set out in criterion (3).

Only one recipient may hold the Scholarship at any one time.

The Dean of the Faculty of Graduate Studies (or designate) will ask the Director of the Ph.D. program in Peace and Conflict Studies to name the selection committee.

### **Prof. Richard Emerson Williams Graduate Scholarship in Fine Arts**

On the occasion of his 90<sup>th</sup> birthday, the family of Prof. Richard Emerson Williams have established a scholarship in his name at the University of Manitoba. Prof. Williams served as the Director of the School of Fine Art from 1954 – 1974. The donors will provide a contribution of \$5,000 to offer the Prof. Richard Emerson Williams Graduate Scholarship in Fine Arts in the 2011/2012 and the 2012/2013 academic sessions. In each of these years, one scholarship with a value of \$2,500 will be offered to a student who:

- (1) is enrolled full-time in the Faculty of Graduate Studies, in the first year of the Master of Fine Art;
- (2) has achieved a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours of study (or equivalent);
- (3) has been ranked high on the application for admission to the Master of Fine Art program.

The Dean of the Faculty of Graduate Studies (or designate) will ask the Director of the School of Art (or designate) to name the selection committee.

### **Eugene Reimer Scholarship for the Numerical Sciences**

Mr. Eugene Reimer (M.Sc./77) has established an endowment fund at the University of Manitoba, with an initial gift of \$150,000 in 2011. The purpose of the fund is to provide scholarships for students pursuing a degree in one of the numerical sciences. The available annual interest from the fund will be used to offer one renewable scholarship to an undergraduate student who:

- (4) has completed one year of university study (minimum at 24 credit hours);
- (5) has achieved a minimum degree grade point average of 3.5;
- (6) in the next ensuing academic session, is enrolled full-time (minimum 24 credit hours) in the Faculty of Science, in any Honours program in the numerical sciences (including actuarial mathematics, computer science, mathematics, and statistics) leading to a Bachelor of Science degree.

The scholarship is renewable, at the same value, in each of the third and fourth years of study provided that the recipient:

- (1) continues to be enrolled full-time (minimum 24 credit hours) in the Faculty of Science, in the third or fourth year of any Honours program in the numerical sciences (including actuarial mathematics, computer science, mathematics, and statistics) leading to a Bachelor of Science degree.;
- (2) has achieved a minimum sessional grade point average of 3.5.

Normally, the Eugene Reimer Scholarship for the Numerical Sciences may not be held together with other University awards having a total value of \$10,000 or greater.

The selection committee will be named by the Dean of the Faculty of Science (or designate).

### Department of Native Studies Graduate Scholarship

The Department of Native Studies at the University of Manitoba provides an annual contribution to offer a scholarship for Master's students while they undertake their thesis research in the summer term. At least one and up to two scholarships, valued at \$2,000 each, will be offered in the summer term to students who:

- (1) are enrolled in the Faculty of Graduate Studies, in the Master of Native Studies program;
- (2) have achieved a minimum degree grade point average of 3.0 (or equivalent) based on the last 60 credit hours of study (or equivalent);
- (3) have completed the two required courses *Methodology and Research Issues in Native Studies* (NATV 7230) and *Issues in Colonization* (NATV 7240) with a minimum combined grade point average of 3.0\*;
- (4) will undertake thesis research during the summer term of their first or second year of study in the program.

\*Priority will be given to students who have completed their course work for the program and have submitted a thesis proposal.

Candidates will be required to submit an application that will consist of: (a) a description of their proposed research project (maximum 500 words), (b) a current academic transcript(s), and (c) a letter of support from his or her graduate supervisor.

The Department of Native Studies Graduate Scholarship may not be held with any other major scholarship, including University awards with a value greater than or equal to that of a University of Manitoba Graduate Fellowship and external awards funded by provincial or federal government programs.

The Dean, Faculty of Graduate Studies (or designate) will ask the Head, Department of Native Studies (or designate) to name the selection committee.

## 2. AMENDMENTS

### Ruth Asper Scholarships in Physical Education, and Kinesiology and Recreation

Mrs. Ruth Asper (B.P.E./81, B.R.S./83) has established an endowment fund of \$300,000 at the University of Manitoba to provide ~~two~~ a renewable scholarships, of equal value, to for graduate students pursuing studies in physical education, kinesiology, and fitness. Ninety percent\* of the available annual interest earned on the fund shall be used to offer scholarships to graduate students.

Each year, one scholarship valued at forty-five percent of the available annual interest, will be offered to a graduate student who:

- (1) ~~are is~~ enrolled as a full-time students in the first year of the Master of Science in (Kinesiology and Recreation), the Master of Arts (Kinesiology and Recreation), or the Ph.D. in Applied Health Sciences program at the University of Manitoba under the supervision of a professor in the Faculty of Kinesiology and Recreation Management;
- (2) ~~as entering students, have~~ has achieved a minimum degree grade point average of 3.5 (or equivalent) in the most recent 60 credit hours (or equivalent) of study ~~completed in their undergraduate program;~~

~~or, as continuing students, have achieved a minimum degree grade point average of 3.5 in the graduate program;~~

- (3) ~~demonstrate a focus on the physical and/or psycho-social aspects of~~ will conduct thesis research focused on fitness, exercise, and/or physical activity ~~through their research or thesis topic.~~

The Scholarship is renewable in the second year of the program, provided that the recipient:

- (7) continues to be enrolled full-time in the Master of Science (Kinesiology and Recreation), the Master of Arts (Kinesiology and Recreation ), or the Ph.D. in Applied Health Sciences under the supervision of a professor in the Faculty of Kinesiology and Recreation Management;
- (8) has maintained a minimum degree grade point average of 3.5 (or equivalent) based on the last 60 credit hours (or equivalent) of study;
- (9) continues to conduct thesis research focused on fitness, exercise, and/or physical activity.

Preference will be given to students in a Masters' program.

In the event that a recipient does not qualify for continuation of the Scholarship, the University may offer that scholarship to the next qualified student, in the same year of study, as a one-time scholarship for a student in the second year of study

Candidates will be required to submit an application that will consist of a description of their proposed or ongoing research (maximum 500 words), a current academic transcript(s), and academic letter of reference from a professor at a post-secondary institution.

Recipients may hold the Ruth Asper Scholarship in Physical Education, Kinesiology and Recreation concurrently with any other awards, consistent with policies in the Faculty of Graduate Studies.

\*The remaining ten percent of annual interest generated will be reinvested into the capital of the fund. In future years, at the request of the selection committee and with agreement from the donor, this practice may be discontinued.

The ~~selection committee shall be named by the~~ Dean of the Faculty of Graduate Studies (or designate) will ask the Dean of the Faculty of Kinesiology and Recreation Management to name the selection committee for this award. ~~and The committee~~ shall include Ruth Asper or her designate.

### **David S. Bloom, M.D., and Rosalind Dalfen Bloom Bursary in Medicine**

Dr. David S. Bloom (M.D./61, B.Sc. Med./61) and his wife, Rosalind Dalfen Bloom (B. Comm., McGill University) have established an endowment fund at the University of Manitoba, with an initial gift of \$25,016.68. The Manitoba Scholarship and Bursary Initiative has made a contribution to the fund. The purpose of the fund is to support students in the Faculty of Medicine. The available annual income from the fund will be used to offer one bursary to an undergraduate student who:

- (1) is enrolled full-time in ~~any~~ the third or fourth year of study in the Undergraduate Medical Education Program in the Faculty of Medicine and is in good standing;
- (2) has demonstrated financial need on the standard University of Manitoba bursary application form.



The bursary will be disbursed in two equal allocations; one in the Fall term and one in the Winter term.

The selection committee will be named by the Dean of the Faculty of Medicine (or designate).

### **The Jack John Blumberg Memorial Prize**

A fund of \$1,000 has been contributed to The University of Manitoba by members of the family of the late John Jack Blumberg, the former city Alderman who was credited as having one of the longest records of service in Winnipeg civic politics. The fund shall be used to offer the John Blumberg Memorial Prize (formerly the Jack Blumberg Memorial Prize). The value of the prize shall be the annual income on the fund.

The prize shall be awarded annually to the student registered at The University of Manitoba including affiliated colleges who attains the highest standing in the course Introduction to Canadian Government (currently numbered POLS 2070).

The Board of Governors has the right to modify these terms if for any reason it becomes necessary to do so, such modification to conform as closely as possible to the wishes of the donor.

### **Sheila Chipman Memorial Award**

The family of Sheila Chipman provides \$750 annually to offer a memorial award in her honour. ~~The Manitoba Scholarship and Bursary Initiative has made a contribution to this Award~~ Matching funds may be provided through the Manitoba Scholarship and Bursary Initiative (MSBI) program. In any year that matching funds are not available through the MSBI program, matching funds will be provided by the Bison Women's Hockey program. One award valued at \$1,500 will be offered to a student who:

- (1) has completed a minimum of one year of study at the University of Manitoba in any Faculty or School and has completed a minimum of 21 credit hours in the previous academic year;
- (2) has completed a minimum of one year as a Bison student athlete on the Bison Women's Hockey Team;
- (3) has achieved a minimum sessional grade point average of 2.5 in their previous year as a Bison student athlete (preference will be given to those students with a sessional grade point average of 3.25 or greater);
- (4) best exemplifies the qualities of perseverance and dedication to overcoming challenge either personal or that of the team and who consistently subrogates themselves to the interests of the program.

The selection committee will include the Head Coach of the Bison Women's Hockey Team and the Athletic Director (or designate) from the Faculty of Kinesiology and Recreation Management who will serve as chair.

(The terms of this award will be reviewed annually against the criteria of Canadian Interuniversity Sport governing Athletic award - alumni, private, booster club and corporate funded, currently numbered 50.10.5.6 in the C.I.S. Manual).

### **Dr. John M. Grahame Scholarship**

The Manitoba Dental Alumni Association offers an annual scholarship of \$550 has established a trust fund at the University of Manitoba, in honour of Dr. John M. Grahame of Winnipeg. The available annual interest from the fund will be used to offer one scholarship to be awarded to the student in second year Dentistry who best combines scholastic achievement, general character and participation in extra-curricular activities.

The selection committee will be the Dental Alumni representative on the Dental Faculty Council, the current Senior Stick of the faculty and the second year class advisor.

### **Manitoba Moose Winnipeg Jets Award**

The Manitoba Moose True North Sports and Entertainment provides an annual gift of \$750 to offer an award for members of the Bison Women's Hockey Team. The Manitoba Scholarship and Bursary Initiative has made a contribution to this Award. Matching funds may be provided through the Manitoba Scholarship and Bursary Initiative (MSBI) program. In any year that matching funds are not available through the MSBI program, matching funds will be provided by the Bison Women's Hockey program. An award of \$1,500 will be offered to a student who:

- (1) has completed a minimum of one year of study at the University of Manitoba in any Faculty or School and has completed a minimum of 21 credit hours in the previous academic year;
- (2) has completed a minimum of one year as a Bison student athlete on the Bison Women's Hockey Team;
- (3) has achieved a minimum sessional grade point average of 2.5 in their previous year as a Bison student athlete (preference will be given to those students with a sessional grade point average of 3.25 or greater);
- (4) best exemplifies the qualities of leadership (on and off the ice), tenacity, discipline, and dedication to the team.

The selection committee will include the Head Coach of the Bison Women's Hockey Team and the Athletic Director (or designate) from the Faculty of Kinesiology and Recreation Management who will serve as chair.

(The terms of this award will be reviewed annually against the criteria of Canadian Interuniversity Sport governing "Athletic award - alumni, private, booster club and corporate funded", currently numbered 50.10.5.6 in the C.I.S. Manual).

### **Jean Rorke Memorial Scholarship**

The University Women's Club of Winnipeg has established an annual scholarship of \$600 in the I.H. Asper School of Business at The University of Manitoba.

A scholarship will be awarded to the student who is registered in the I.H. Asper School of Business and has achieved the highest grade in 27.208 Introduction to Management and Organizational Theory Management and Organizational Theory (currently numbered GMG2060). The student must register in the following terms in the I.H. Asper School of Business.

The I.H. Asper School of Business Awards Committee will be responsible for selecting the recipient of this award.

### **Jeffrey S. Train Athletic Therapy Award**

Jeffrey S. Train offers to provide annually an award of \$500. The purpose of the award is not necessarily to recognize academic excellence but to recognize those students who show commitment to excellence in practice. To be eligible for consideration for this award, a student:

- (1) must be enrolled, in the year of the award, in the Bachelor of Kinesiology – Athletic Therapy program, in the Faculty of Kinesiology and Recreation Management;
- (2) must have achieved satisfactory academic standing (minimum degree grade point average of 2.0), must have carried at least 60 percent of a full course-load in the previous year, and must have completed at least the first year of the program in the faculty;
- (3) must have demonstrated the ability to interact positively with co-workers and patients, while applying the academic knowledge of athletic therapy;
- (4) must show a commitment to the university or community-based team to which they are appointed;
- (5) must be a member in good standing of the Manitoba Athletic Therapy Association.

The Jeffrey S. Train Athletic Therapy Award may not be held with any other scholarship for students in the Faculty of Kinesiology and Recreation Management.

The selection committee for this award shall be the Undergraduate Academic Awards Committee of the Faculty of Kinesiology and Recreation Management and will include the Director of the Athletic Therapy Program.

### **3. WITHDRAWALS**

#### **Versa Vending Bursary**

The Versa Vending Bursary, an annually funded award for undergraduate and graduate students in any program at the University, is to be withdrawn. The bursary has not been offered for several years.

**Proposal from the Clayton H. Riddell Faculty of Environment, Earth, and Resources for direct entry to that Faculty's undergraduate programs (2011.10.21)**

**Forwarded to Senate for information only**—this proposal was constructed according to a template previously approved by Senate (2010.10.06)

The following proposal to allow for 'direct entry' from high school to the undergraduate programs in the Clayton H. Riddell Faculty of Environment, Earth, and Resources was passed by its Faculty Council on 2011 September 12 and by the Senate Committee on Admissions on 2011 October 21. This proposal, effective for the September 2013 intake, reflects the diverse science/social science nature of the programs undergraduate students could enter in this faculty.

Applicants for 'direct entry' to the Clayton H. Riddell Faculty of Environment, Earth, and Resources must have a minimum average of 85% in three specified Manitoba Grade 12 S or U courses, including:

1. One credit in English
  2. Pre-Calculus 40S or Applied Mathematics 40S
  3. One of: Social Studies 40S, Biology 40S, Chemistry 40S, Physics 40S OR one 'Designated Course 40S'—including Economics, Law, Psychology, and Current Topics in First Nations, Metis and Inuit (FNMI) Studies
- A minimum of 60% must be presented in each of the three courses used for direct admission.
  - Applicants must also meet the general University requirements which include Manitoba high school graduation, with a minimum of five full credits at the Grade 12 level, in courses designated S, U, or G (General).
  - 'Social Studies 40S', for the purposes of direct entry, includes the following courses from the Manitoba high school curriculum (or equivalent elsewhere): World Human Geography, History: Western Civilization, Social Studies: World Issues, and Global Issues: Citizenship and Sustainability.

Respectfully submitted,  
Susan Gottheil, Chair, Senate Committee on Admissions



UNIVERSITY  
OF MANITOBA

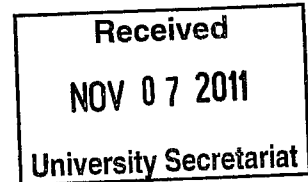
Office of the  
Vice-President (Academic) & Provost

208 Administration Building  
Winnipeg, Manitoba  
Canada R3T 2N2  
Telephone (204) 480-1408  
Fax (204) 275-1160

November 7, 2011

Mr. Jeff Leclerc  
University Secretary

Dear Jeff,



**Re: International College of Manitoba Annual Report**

On behalf of the University of Manitoba–International College of Manitoba (UM–ICM) Academic Advisory Committee (AAC), I am pleased to provide a copy of Annual Report on the Operations of the International College of Manitoba, September 2010 to August 2011.

Please note that the attached report includes information of the performance of students in the ICM program, as well as statistics comparing the performance of ICM students who have subsequently enrolled at the UM, with that of domestic and other international undergraduate students admitted in Fall 2009, and assessed in 2010-2011, following their second year of study. Although the sample size for the ICM group is small (93) at this stage, these data suggest that ICM graduates are performing at least as well as other international students who have entered the University of Manitoba directly.

In addition to the Annual Report, I am providing a copy of the 'ICM, End of Semester Report, May - August Semester, 2011.' This document, which contains ICM course specific information including comments from the participating instructors, can be perused by interested Senators, in your Office, following the release of the Annual Report.

Sincerely,

David M. Collins, Ph.D.  
**Vice-Provost (Academic Planning & Programs)**

Encl.

## Annual Report on the Operations of the International College of Manitoba September 2010 to August 2011

The International College of Manitoba (ICM) was established in September 2008, to assist international students, transition to a Canadian university environment, namely the University of Manitoba. The teaching and learning supports that are provided by ICM are designed to ensure that students will succeed when they transfer to the University of Manitoba.

ICM offers two programs, a pre-university/foundation program called University Transfer Program I (UTP I) and a university level program called University Transfer Program II (UTP II).

As of September 2011, ICM has 510 registered students and has had 275 students pass through the program since its inception.

### Transition to University of Manitoba

ICM students must meet the admission requirements of their target faculty to gain admission to the University of Manitoba. The following table (Table 1) documents students who have passed through the program of study that they undertook while at ICM. Students may apply to a Faculty other than their stream of study at ICM, and do so if they change their field of interest, do not meet the eligibility requirements of their target faculties, or the target faculty has only September admission available.

**Table 1: Students graduated from the ICM program**

Semester	Arts	Business	Engineering	Science	Total
Aug-09	0	6	1	4	11
Dec-09	1	6	1	5	13
Apr-10	3	9	2	6	20
Aug-10	5	19	11	13	48
Dec-10	12	14	5	11	42
Apr-11	7	26	7	14	54
Aug-11	17	32	17	21	87
Cumulative					275

### Student Diversity

This year ICM had students from 43 countries. China and Nigeria have the highest representation, with increased number of students from Pakistan and Bangladesh.

### **Entrance Scholarships**

ICM awarded two entrance scholarships of half the annual tuition, each semester to incoming students. This year, recipients came from Bangladesh, Hong Kong, Mexico, Pakistan, Tanzania, and Zimbabwe.

ICM will be awarding scholarships, for the 2011/2012 academic year to two continuing students with the highest GPA's in each term.

### **Services for ICM students**

ICM provides a variety of formal and informal supports to students. Integrated Learning Skills is a required course in the first semester to help students transition both culturally and academically to their new educational environment. The course also emphasizes writing and research skills, note-taking, test preparation, organizational strategies, academic integrity, group presentations and getting to know both the University of Manitoba and Winnipeg.

ICM has introduced a course to assist students who fail fifty per cent of their term subjects to get back on track with their studies. This course is comprised of a series of learning skills and self-evaluation workshops to assist students to improve their performance. In addition, students have individual meetings with student advisors.

A number of workshops are offered by ICM each semester to provide information on topics such as admission to the University of Manitoba, program planning, academic standing, study permit renewals. In addition, Enrolment Services has provided admission sessions and STAR workshops, and each pathway faculty has provided at least one information session to ICM students.

ICM continues to provide students with extra tutorial sessions in subject areas identified by students and instructors as areas where they were having difficulties.

### **Quality Assurance**

ICM, in agreement with the University of Manitoba, has a range of quality assurance measures including, oversight by University Faculties of all UTP II course outlines, mid-terms, final examination papers and marking schemes to ensure the highest quality is achieved at all times and that the courses are taught and examined with the same rigour that they would be if they were taught at the University of Manitoba.

All instructional staff teaching the UTP II university level courses are approved by the UM Course Coordinators. The approval of course outlines and compliance processes were followed for each course.

### **Instruction**

ICM requires highly committed instructors to support students during their transition. Fifty individuals instructed one or more courses during the 2010-2011 academic year. Once a term an instructor meeting is held to debrief activities and allow instructors to share teaching

strategies. In addition, a half-day professional development session 'Going the Distance - Effective Teaching in Lengthy Class Times' was held in August, 2011. ICM has also developed an instructor 'wiki' to provide resources and the opportunity for regular communication among instructors through a blog.

## **GPA**

The average GPA of students who completed ICM during 2010-2011 was 2.96.

## **Feedback Mechanisms**

ICM students are surveyed each semester using both the SEEQ survey and an ICM student satisfaction survey. Instructors receive a copy of their evaluations.

ICM instructors provide a report each semester highlighting successful teaching strategies and reflecting on challenges they face. These reports can help provide transition information to new instructors, and provide tips that can be shared with current instructors. In addition, instructors complete a survey once a semester so that ICM can address any identified needs.

## **ICM Graduates, 2010-2011**

The Office of Institutional Analysis (OIA) has provided comparative data on University of Manitoba students recruited from the ICM during the 2010-2011 academic year, compared with other International and Domestic students (Table 2). The Domestic and International cohorts included were admitted on the basis of high school performance in Fall Term 2009, and assessed in 2010-2011, following their second year of study. The Domestic cohort includes Canadians and Permanent Residents, and the International cohort includes students with international status.

Although the sample size for the ICM group is small (93), these data suggest that ICM graduates are performing at least as well as other international students who have entered the University of Manitoba directly.

**Table 2: ICM Graduates Enrolled at the University of Manitoba, 2010-2011  
Grade Point Average, Admit Term & Cohort Group<sup>1</sup>**

<b>All Students</b>	<b>Admit Term</b>	<b>Session 2010-11</b>	
		<b>N</b>	<b>Degree GPA</b>
Domestic students	Fall 2009	2953	2.82
International students	Fall 2009	200	2.49
ICM graduates	Fall 2010	63	2.71
	Winter 2011	30	2.71
	<b>Subtotal</b>	<b>93</b>	<b>2.71</b>
<b>Total</b>		<b>3246</b>	<b>2.80</b>



Table 3 provides a list of University of Manitoba Faculties that have recruited ICM students over 2010-2011, with the majority (in rank order) entering Science, the Asper School of Business, and Engineering.

**Table 3: University of Manitoba Facilities, by Admit Term 2010-2011**

<b>Admit Term</b>	<b>Faculty</b>
Fall 2010	Agricultural & Food Sciences Arts Business, Asper School of Engineering Human Ecology Kinesiology & Rec. Mgmt Science
Winter 2011	Agricultural & Food Sciences Arts Environment, Earth & Res. Human Ecology Science

## Appendix A

### International College of Manitoba and University of Manitoba Academic Advisory Council

#### TERMS OF REFERENCE

The Academic Advisory Council shall provide advice to ICM and UM regarding the operations of ICM and in particular shall be responsible for reporting regularly on the following:

1. During any given time period, the numbers of students admitted to ICM, the courses offered by ICM, and the academic performance of ICM students in those courses;
2. During any given time period, the numbers of ICM students admitted to UM, their country of origin, the programs into which they are admitted, and the number of ICM students who are admitted to other postsecondary institutions;
3. During any given time period, the academic performance of ICM students admitted to UM programs as compared with the academic performance of other international students admitted to UM programs;
4. ICM and UM will report annually on their separate and joint activities undertaken to increase international student recruitment and retention;
5. Analysis of UM Departmental workloads resulting from academic oversight of ICM courses and activities;
6. Analysis of any concerns expressed by ICM instructors concerning working conditions;
7. Analysis of statistical data provided by ICM concerning student diversity, disability accommodation, and student disciplinary actions.

Following each of ICM's three academic terms, the Council shall submit a written report on these and any other matters to the UM Provost and the Principal of ICM. Each December, the Council shall submit a written report covering the previous year's activities to the Chair of the UM Senate.

The Council will determine its own rules of procedure and will meet at least once in each of ICM's academic terms.

The Council shall endeavour to consult with ICM students.

The Council consists of the following members:

- A Chair named by UM
- Three members named by UM
- Three members named by ICM

Approved: 16 October 2008

Amended: 31 October 2011

### **In Memoriam Dr. Alexander (Sandy) Gordon**

Professor Emeritus Alexander Gordon, our distinguished colleague in the Department of French, Spanish, and Italian, died suddenly on Monday morning, October 17, 2011 at the age of 76.

Alexander (Sandy) was born in Grantown-on-Spey, Scotland, where he received his education culminating in a B.A. Honours in French and German. He then went to Paris, and very successfully completed a Licence and a Doctorat. In 1961 he came to Canada where he spent his whole career teaching French at the University of Manitoba.

Professor Gordon was a distinguished scholar of Renaissance, Rhetorical and 20<sup>th</sup> century French poetry studies. Yves Bonnefoy, perhaps the preeminent poet of the French 20<sup>th</sup> century, has written of his admiration for Sandy's studies of his works and of Sandy's studies on the Renaissance and Rhetoric. Madeleine Bertaud, *Professeur émérite* of the Université de Nancy 2 and director of the journal *ADIREL*, has written: "Il faut rappeler le beau livre paru chez Droz, *Ronsard et la rhétorique*." James Lawler, the leading authority on the French symbolist poet Paul Valéry, said: "the depth of his approach to Yves Bonnefoy and the symbolist tradition made me eager to publish his work in *Dalhousie French Studies*." Jean-Claude Moisan, *Professeur émérite* at Laval, wrote of Sandy's contributions to studies of rhetoric: "il a marqué l'histoire de cette discipline". Sandy's achievements as a scholar are matched by his record in the classroom. His evaluations were always among the best in the department. Former students often mention Professor Gordon's unique combination of rigour, enthusiasm, high academic standards and ability to motivate students to excel in their studies.

Sandy's contribution to French studies and culture in general was recognized by the French government when it awarded him the *Palmes académiques*, and by the university which conferred upon him the title Professor Emeritus.

Professor Gordon served the University of Manitoba and his community in an exemplary fashion, and he leaves many friends and colleagues to celebrate his memory.

You are invited to make a contribution to the Joan Kennet award, created by Professor Gordon and given for excellence in graduate writing. Cheques may be made payable to the University of Manitoba and sent, along with a return address for tax deduction purposes, to Vonne Bannavong, 429 Fletcher Argue Building, University of Manitoba, R3N 5V5.

### *In Memoriam: Dr. Denis O. Krause*



Dr. Denis O. Krause passed away on October 16, 2011, at his home surrounded by his family. Denis was Professor of Gut Microbiology in the Department of Animal Science with a cross-appointment in the Department of Medical Microbiology at the University of Manitoba.

Denis was born in Johannesburg, South Africa, on January 24, 1965. In 1988, he received his B.Sc. at the University of Stellenbosch in South Africa. Denis obtained his Masters and Ph.D. degrees from the University of Illinois in 1990 and 1994, respectively. Subsequently he was a Post-doctoral Scientist in Microbiology at Cornell University. In 1996 he moved to Australia, where he was employed as a Research Scientist at CSIRO Livestock Industries until 2000, when he was promoted to Senior Research Scientist. In 2003 he obtained the position of Assistant Professor in the Department of Animal Science at the University of Manitoba. He was promoted to Associate Professor in 2006 and to Full Professor in 2010.

Denis had a very active, well-funded and internationally recognized research program. His expertise in gut microbiology greatly improved the understanding of the movement of pathogens in the farm ecosystem, identified solutions to stressors in the animal's intestinal tract, mitigated food safety issues, and contributed to several medical science networks focused on the etiology and prevention of inflammatory bowel disease in humans. He emphasized the need for stronger linkages between animal agriculture and medicine as a means of advancing food safety. Denis established successful research networks in swine gut microbiology and rumen microbiology that stretch across Canada and internationally.

During the last six years alone, he supervised 5 post-doctoral fellows, 8 Ph.D., 8 M.Sc., and numerous undergraduate students as well as technical staff. He served on committees for 16 Ph.D. and M.Sc. students. Many of these individuals have been recognized through NSERC postgraduate and industry awards and have gone on to discipline-related positions as academics, scientists and experts within government. He authored or co-authored over 85 peer-reviewed publications, as well as numerous book chapters and abstracts. He edited the book on "Zoonotic pathogens in the food chain" which was published in 2010. In 2011, he received the prestigious

award for “Technical Innovation in Enhancing Production of Safe Affordable Food” from the Canadian Society of Animal Science. He was an active member of the Canadian Society of Animal Science, the Crohn’s and Colitis Foundation of Canada, and the American Society for Microbiology. Denis served on the scientific advisory boards of the Canadian Johne’s Disease Network and the International Committee for the Nutrition of Herbivores, and on the Committee for Genomes, Environment, and Microbes of the Crohn’s and Colitis Foundation of Canada. In addition, he was Section Editor for Microbiology for Inflammatory Bowel Diseases.

Next to his work, Denis had many interests including sports, travel, history, and reading. No day was too cold for him to go running. He most enjoyed spending time with his three sons. Denis was diagnosed with a serious disease early in 2011. He fought this disease bravely, while continuing his research and teaching. He will be greatly missed by his family, friends, colleagues and students, and leaves a great void. Denis is survived by his wife Alice and his sons David, Jonathan and Joshua. In memory of Denis, donations may be made to the Krause Family Education Fund at any branch of the Steinbach Credit Union, in Manitoba.



UNIVERSITY  
OF MANITOBA


Office of the University Secretary

312 Administration Building  
Winnipeg, Manitoba  
Canada R3T 2N2  
Fax (204) 474-7511

**MEMORANDUM**

**DATE:** November 16, 2011

**TO:** David Barnard, Chair of Senate

**FROM:** Jeff M. Leclerc, University Secretary 

**SUBJECT:** ***APPROVAL OF MOTION, BOARD OF GOVERNORS MEETING –  
November 15, 2011***

---

At its meeting on November 15, 2011 the Board of Governors approved the following motion:

**THAT the Board of Governors approve one new offer and one amended offer, as set out in Appendix A of the Report of the Senate Committee on Awards - Part A [dated September 26, 2011].**

**THAT the Board of Governors approve the Report of the Senate Committee on Awards - Part B [dated September 26, 2011].**

**THAT the Board of Governors approve the proposal for a Ph.D. in Nursing [as recommended by Senate November 2, 2011].**

**THAT the Board of Governors receive for information the Statement of Intent: Bachelor of Nursing Science**

Copy: Shannon Coyston  
David Collins

JML/sf

## **PRESIDENT'S REPORT: December 7, 2011**

### **GENERAL**

The University of Manitoba had the distinguished honour to host His Excellency the Right Honourable David Johnston, Governor General of Canada on October 20, 2011. The visit included the “Celebrating Inner-City Community Connections” event at Bannatyne campus which showcased a number of inner city activities that are offered in partnership with the University of Manitoba. These activities, along with close to two hundred other examples of partnership between world class scholars, researchers and staff and local community organizations are described in the report, *UM Connecting to Kids*, that was presented to His Excellency. The report was written by the Faculties of Medicine, Social Work, Kinesiology and Recreation Management and represents just some of the work that members of the University of Manitoba community are involved with in the broader community.

His Excellency Dr. David Johnston’s visit occurred during the University of Manitoba’s fall convocation ceremonies, at which he was conferred an honorary degree for his leadership in scholarship, public service, and Canadian unity. On October 19, Dr. John Buhler, founder of Buhler Industries also received an honorary degree for his outstanding community leadership and philanthropy. I was proud to welcome 1269 students to the alumni community at our fall convocation as well.

The University of Manitoba welcomed Mr. Paul Davidson, President of the Association of Universities and Colleges of Canada (AUCC) on November 9 in conjunction with the AUCC’s national, “Open Doors, Open Knowledge” series, which recognizes the federal and provincial investments in the Knowledge Infrastructure (KIP) Program. While in Winnipeg, Mr. Davidson met with members of the Board of Governors, Provost’s and Executive Councils and provincial ministers to discuss the AUCC’s new narrative, trends emerging nationally, and the value of investment in research.

The ROSE project, which has been termed one of the largest business transformation initiatives taking place in this country, continues to move ahead at a rapid pace. Since September, three initiatives within the Finance stream have reached formal completion and several more have recently gone live. Further details are provided later in the report.

On October 27, I addressed the Truth and Reconciliation Commission on behalf of the University of Manitoba at the Commission’s Atlantic National Event in Halifax, Nova Scotia. The University of Manitoba’s statement of reconciliation to the Truth and Reconciliation Commission, which can be found on the University of Manitoba’s home page, held deep meaning and resonance for Indigenous peoples and the wider community and represented an important step toward reconciliation.

### **ACADEMIC MATTERS**

- Andrew Woolford, sociology, was granted a 2011-2012 Fulbright Scholar Award to the University of New Mexico, where his research will compare the experiences of aboriginal residential schools in Canada and the United States. As a Fulbright Scholar with the University of New Mexico’s Department of Sociology, Andrew’s project will compare American Indian boarding schools and Canadian residential schools, and he hopes to address questions of genocide and learn about the movement for boarding school reparations. The Fulbright program operates in over 150 countries and is regarded as the world’s premiere academic exchange.

- Brenda Gunn, law, has created an introductory handbook to assist in learning about the *United Nations Declaration on the Rights of Indigenous Peoples* adopted by the United Nations in 2007 and its relevance in Canada. The handbook will be distributed to assist community leaders and members, lawyers, judges, human rights commissions, academics, teachers, and all Canadians to understand what the UN Declaration is about and its relevance in Canada.
- Agricultural and Food Sciences' students participated in the 30<sup>th</sup> Annual Aggie Bed Push in September in support of the Canadian Red Cross Manitoba Severe Weather Fund to assist Manitobans impacted by the floods. Students push a bed on wheels over 200 km from Brandon to Winnipeg in support of this charity.
- The School of Dental Hygiene announced that the most recent national board scores for their students were exceptional, with students outperforming the national averages in every category and overall. The news of the positive results for dental hygiene comes on the heels of similar results posted by Faculty of Dentistry students following National Dental Examination Board exams earlier this summer.
- The first-year class of the University of Manitoba's Faculty of Dentistry will be comprised of students who all call this province home. It's the first time in more than two decades that the 29 places in the first-year class will be filled by students who all reside within Manitoba's borders. Faculty statistics show that the vast majority of home-grown graduates opt to practice within their home borders. This, combined with the rising academic results posted nationally by recent graduating classes, should ensure Manitobans have uninterrupted access to world-class oral health-care.
- The Honourable Chief Justice of Manitoba Richard Scott, The Honourable Madam Justice Barbara Hamilton and The Honourable Mr. Justice Martin Freedman from the Manitoba Court of Appeal transformed Robson Hall Law School's moot courtroom into a real Court of Appeal on Thursday October 13, 2011 for the second time in the history of the Court. This learning opportunity for first year law students was provided as part of their oral advocacy course in Legal Methods and was very well received. All four lawyers and all three Justices are graduates of the University of Manitoba.
- The Faculty of Pharmacy Class of 2011 was ranked first in Canada in the 2011 Pharmacy Examining Board of Canada (PEBC) Qualifying Examinations. Manitoba pharmacy graduates (42) were 100 percent successful on both the Part I (MCQ), and Part II (OSCE) exams. The pharmacy graduates achieved the highest Faculty average grade on the Part I (MCQ) Exam, and were ranked third on the Part II (OSCE) Exam.
- The Inner-City Social Work program celebrated their 30<sup>th</sup> Anniversary on Saturday, October 22.

## RESEARCH AND INTERNATIONAL MATTERS

- The Canada Research Chair (CRC) program announced an investment of \$7.3 million in funding towards research being done at the University of Manitoba on October 12, 2011. The university was awarded one new CRC, one CRC was advanced, and eight CRCs had their chairs renewed. Dr. Jason Treberg (Biological Sciences) is CRC in Metabolism and Environmental Dynamics and will receive \$500,000 over the next five years. His research will examine the role of mitochondria in metabolic and physiological responses to environmental change and quality. Dr. Lorrie Kirshenbaum



(Physiology, Pharmacology & Therapeutics, and St. Boniface Hospital Research Centre), CRC in Molecular Cardiology, had his chair advanced from a Tier 2 to a Tier 1 and will receive \$1.4 million over the next seven years. This will allow him to build on the research he has conducted thus far and speaks to the university's commitment to advancing and retaining world-class researchers.

The following eight CRCs were renewed in their Tier 2 appointments and awarded \$500,000 each over the next five years: Drs. Trust Beta (Food Science), Ehab El-Salakawy (Civil Engineering), Mostafa Fayek (Geological Sciences), Andrew Halayko (Physiology), Kiera Ladner (Political Studies), Aaron Marshall (Immunology), Mario Tenuta (Soil Science) and Abraham Quan Wang (Mechanical & Manufacturing Engineering). James Davie (Biochemistry & Medical Genetics) was renewed as a Tier 1 Chair and will receive a total of \$1.4 million in funding over the next seven years.

- Funding of \$6.4 million in awards from the Canadian International Development Agency (CIDA) and Canada's International Development Research Centre (IDRC), for projects supported through the Canadian International Food Security Research Fund (CIFSRF) was announced on October 12, 2011. The research project "Revalorizing minor millets in rain-fed regions of South Asia" was awarded \$3.5-million, shared among researchers from Canadian Mennonite University and other Canadian and international university and NGO partners. CMU's Dr. Kirit Patel is the lead PI, with Dr. Derek Johnson (Anthropology) as one of the co-investigators. The research project "Better vegetable growing opportunities for Nigerian women" was awarded \$2.9-million, shared among researchers from the University of Manitoba and other Canadian and international university partners. The University of Manitoba's Dr. Wolé Akinremi (Soil Science) is one of the principal investigators with colleagues from Cape Breton University; Obafemi Awolowo University, Nigeria; and Osun State University, Nigeria.
- Three Faculty of Medicine professors have been elected as fellows of the Canadian Academy of Health Sciences (CAHS). Drs. Stephen Moses (Medical Microbiology), Brian Postl (Dean of Medicine) and Noralou Roos (Community Health Sciences) were inducted into the Academy during a ceremony held in Ottawa on September 16 and 17. Fellows of the Academy are elected by their peers on the basis of their demonstrated leadership, creativity, distinctive competencies and commitment to advance academic health sciences. Moses has made major contributions internationally to understanding biological and behavioural risk factors for sexually transmitted infections, particularly HIV infection, and translating research findings into practice. Postl is a distinguished senior pediatrician and academic physician who has contributed significantly to the health and welfare of children particularly in Northern communities through his active efforts in developing patient-based programs with a community health perspective. Roos founded the Manitoba Centre for Health Policy in the Department of Community Health Sciences and created a population database for understanding why some people are healthy and others are not.
- The Bruce D. Campbell Food and Farm Discovery Centre at the National Centre for Livestock and the Environment held their grand opening on September 16. The 8,300 square foot interpretive centre features hands-on displays and activities designed to showcase the science and technology of food production from the field to the consumer's plate. The centre tells the story of modern farming and food production, including the role of leading-edge research in increasing food production and advancing environmental stewardship, animal welfare, nutrition and food safety. The centre's mandate is to enhance public awareness and understanding of modern, sustainable food production, with emphasis on crops and livestock, and the effects of agricultural practices on the environment, with emphasis on soil, water and air. The centre is funded federally and by several

farm-associated businesses and organizations such as Manitoba Pork Council, Dairy Farmers of Manitoba and the Manitoba Egg Farmers.

- On October 6, 2011 the Manitoba Institute of Child Health hosted its 7th Annual Child Health Research Day. The day was titled “EPIC: Epigenetics, Parents, Infants, Children” A Celebration of Manitoba Child Health Research and included keynote addresses by Dr. James Davie (Biochemistry & Medical Genetics) and Dr. Noralou Roos (Community Health Sciences). This successful and well-attended event showcased the latest in pediatric research conducted here in Manitoba and with collaborating partners across the world. A poster display and competition featured dozens of advances in medical research and an awards presentation honoured recipients of the Manitoba Institute of Child Health’s research grants and awards, funded through the Children’s Hospital Foundation of Manitoba. This free event was open to all audiences and was well-received by local researchers, students, and support staff.
- The Institute of Cardiovascular Sciences, a joint institute of the University of Manitoba and St-Boniface Hospital, celebrated their 25th anniversary by hosting the Winnipeg Heart International Conference from October 13 to 16 at the Winnipeg Convention Centre. The public were invited to hear firsthand about exciting developments in the field of cardiovascular sciences at two public forums. Hundreds of cardiovascular scientists from around the globe attended the conference.
- Her Excellency Else Berit Eikeland, Norwegian Ambassador to Canada, visited the University of Manitoba on October 26 and 27, 2011 to discuss Norway's High North Strategy and to open a photo exhibit of famed Norwegian explorer Roald Amundsen. Her Excellency opened an exhibit featuring stunning photos from Amundsen's stay with the Inuit at Gjoa Haven. The exhibition shows the strong influence of the Aboriginal people of Canada on Amundsen's success as an explorer; he lived and learned in Gjoa Haven for nineteen months. The traveling exhibit, “Cold Recall: Reflections from the Northwest Passage”, will be on display in the Thorlakson Gallery, located in the Icelandic Reading Room on the third floor of the Elizabeth Dafoe Library until January 13, 2012.
- The annual Undergraduate Research Poster Competition, hosted by the Office of the Vice-President (Research and International) was held on October 27 with over 55 posters in the running for the cash prizes in each category: Applied Sciences, Natural Sciences, Social Sciences and Humanities, and Health Sciences. There were no entries in the Creative Works category this year.
- India’s High Commissioner to Canada was on site to kick off a day of discussion and presentations at the “Celebrating Manitoba-India Cooperation in Higher Education: An Academic Symposium” being conducted in recognition of The Year of India in Canada 2011. This academic and cultural symposium highlighted collaborative University of Manitoba research and education projects in India. Highlights of the day included: panel discussions on Manitoba-India research and teaching opportunities, a dramatic presentation by the University of Manitoba Indian Students’ Association and a screening of a documentary film by the Centre for Global Public Health.
- As of September 1, 2011 the Course on Research Ethics (CORE) is now mandatory for all researchers submitting research for REB review and approval. Also, the collaborative research educational event (U of M, MICH, and the St. Boniface Research Centre) entitled "Ethical Considerations in Research" was held on October 12, 2011 with positive evaluations and over 50 people in attendance.
- On October 25 and 26 several workshops were co-hosted by the offices of the Vice-President (Academic) & Provost and Vice-President (Research and International) titled “Research Integrity Matters! The importance of high-quality research cannot be overstated. Research plays a key role in shaping the world in which we live and as such, the integrity of research is vital.”

Dr. Nicholas H. Steneck, Professor Emeritus, University of Michigan spoke to faculty members, research associates, post-doctoral fellows and graduate students about a researchers' primary responsibilities, summarized what is known about research integrity shortfalls globally and in a wide range of research areas, and engaged in a discussion of what can be done to foster high standards for integrity in research, beginning at the level of the individual researcher and research team. The workshops were organized around the new Tri-Council Policy on the Responsible Conduct of Research (to be released in the fall of 2011), the Singapore Statement on Research Integrity and other policies relevant to research in Canada. The proposals for future action will be discussed based in part on Professor Steneck's work as a consultant to the US Office of Research Integrity and founder and co-organizer of the World Conferences on Research Integrity.

- Eighty-one health researchers were awarded a total of \$10.9 million in funding for 103 projects between May 15, 2011 and August 15, 2011. The researchers and projects are:

PI	Sponsor	Title	Awarded
El-Gabalawy, Hani (Internal Medicine)	Abbott Laboratories, Limited	Ultrasonographic (US) measures of joint inflammation and serum biomarkers of disease activity in adult RA patients meeting clinical and DAS28 remission criteria	\$50,000
Zarychanski, Ryan (Internal Medicine)	American Society of Hematology	Phenotypic and genotypic evaluation of a Canadian kindred with hemolytic anemia	\$4,000
Fayek, Mostafa (Geological Sciences)	AREVA Resources Canada Inc.	The Kiggavik (Thelon Basin) and Shea Creek (Western Athabasca Basin) basement-hosted uranium deposits: A comparative study	\$60,000
Ball, Terry (Blake) (Immunology)	Canadian Association for HIV Research (CAHR)	Characterizing the role of innate immunologic factors present in cervico-vaginal lavage (CVL) from HIV highly exposed sero-negative women in abrogating SEVI-mediated enhancement of HIV-1 infection	\$15,000
Singh, Harmander (Internal Medicine)	Canadian Association of Gastroenterology	Molecular basis of interval colorectal cancer	\$45,000
Marshall, Aaron (Immunology)	Canadian Cancer Society Research Institute	Phosphoinositide-dependent signaling pathways in B cell leukemia	\$418,977
Nyomba, Bulangu (Internal Medicine)	Canadian Diabetes Association	Abnormal glucose regulation associated with alcohol exposure in utero	\$263,006
Shen, Garry (Internal Medicine)	Canadian Diabetes Association	Regulatory mechanism for glycated LDL-induced oxidative stress and monocyte-endothelial interactions	\$272,380

Dart, Allison (Pediatrics and Child Health)	Canadian Diabetes Association	The improving cardiovascular complications in youth with type 2 diabetes through Research (iCARE) prospective cohort study	\$274,996.25
Houston, Donald (Internal Medicine)	Canadian Hemophilia Society	Optimizing hemostasis with DDAVP	\$75,000
Davie, James (Biochemistry and Medical Genetics)	CancerCare Manitoba	Comparison of intermediate-early gene expression regulation by histone H3 serine 10 and serine 28 phosphorylation	\$36,750
Murphy, Leigh (Biochemistry and Medical Genetics)	CancerCare Manitoba	Identification of more accurate biomarkers for response to endocrine therapy in breast cancer: Molecular profiling of human breast tumors with high and low estrogen receptor alpha phosphorylation-scores	\$36,750
Brule-Babel, Anita (Plant Science)	Canola Council of Canada	Advanced statistical analysis of small-plot canola variety trial data	\$109,156
Chelikani, V.G.B. Prashen (Oral Biology)	Children's Hospital Foundation of Manitoba Inc.	Intramolecular waters as allosteric regulators of beta2-adrenergic receptor (beta2-AR) function	\$40,000
Karimi-Abdolrezaee, Soheila (Physiology)	Children's Hospital Foundation of Manitoba Inc.	Impact of neuregulin 1/Erb signaling on oligodendrocyte differentiation and remyelination after spinal cord injury	\$38,483
Keijzer, Richard (Surgery)	Children's Hospital Foundation of Manitoba Inc.	Exploring the function of miR-10a and miR-200b during lung development in vivo	\$40,000
Rastegar, Mojgan (Biochemistry and Medical Genetics)	Children's Hospital Foundation of Manitoba Inc.	MECP2 lentiviral delivery into differentiated neurons for Rett syndrome	\$40,000
Schroth, Robert (Preventive Dental Sciences)	Children's Hospital Foundation of Manitoba Inc.	Evaluating the impact of the Free First Visit program on young children's oral health in Manitoba	\$40,000
Schroth, Robert (Preventive Dental Sciences)	Children's Hospital Foundation of Manitoba Inc.	Multidisciplinary promotion of oral health and dental hygiene in children admitted to or seen in the ambulatory clinics in the Winnipeg Children's Hospital	\$28,212

Alvaro, Ruben (Pediatrics and Child Health)	Children's Hospital Foundation of Manitoba Inc.	A prospective, controlled trial of inhalation of low concentration of CO <sub>2</sub> in preterm infants not responding to caffeine for the treatment of apnea of prematurity	\$15,316
Del Bigio, Marc (Pathology)	Children's Hospital Foundation of Manitoba Inc.	Development and characterization of a ferret model of hydrocephalus	\$40,000
Peng, Zhikang (Pediatrics and Child Health)	Children's Hospital Foundation of Manitoba Inc.	The role of newly discovered suppressor cell population in allergic asthma	\$40,000
Diehl-Jones, William (Dean's Office - Faculty of Nursing)	Children's Hospital Foundation of Manitoba Inc.	Effects of hypoxia-ischemia on toll-like receptor expression	\$4,300
Moffatt, Michael (Community Health Sciences)	Children's Hospital Foundation of Manitoba Inc.	Accuracy of immunization documentation in pediatric admissions to Winnipeg's Children's Hospital	\$1,100
Srinivasan, Ganesh (Pediatrics and Child Health)	Children's Hospital Foundation of Manitoba Inc.	Laryngeal mask airway to provide positive pressure ventilation with chest compressions in neonatal resuscitation high fidelity simulation model	\$5,000
Enns, Murray (Psychiatry)	CIHR	Consequences of suicide bereavement: A population-based study in Manitoba	\$300,000
Masuda, Jeffrey (Environment & Geography)	CIHR	Mobilizing knowledge leaders for addressing children's environmental health inequities in Canadian cities	\$196,752
Pear, Joseph (Psychology)	CIHR	Beyond synthesis: Using computer-aided personalized system of instruction to promote knowledge acquisition and uptake	\$199,760
Gardiner, Phillip (Kinesiology and Recreation Management)	CIHR	Comparison of flexor and extensor motoneurons to serotonin application and channel and receptor distributions in activity dependent states	\$105,000
Leygue, Etienne (Biochemistry and Medical Genetics)	CIHR	Characterization of steroid receptor RNA activator (SRA) variants in breast cancer	\$105,000

Porter, Michelle (Kinesiology and Recreation Management)	CIHR	Relationship between jump landing biomechanics and neuromuscular risk factors for anterior cruciate ligament injury in adolescents	\$105,000
Uzonna, Jude (Immunology)	CIHR	Role of novel CD3+CD4-CD8- cells in secondary anti-Leishmania immunity	\$105,000
Singh, Harminder (Internal Medicine)	CIHR	Molecular basis of interval colorectal cancers	\$45,000
Gibson, Spencer (Biochemistry and Medical Genetics)	CIHR	Age-related pathophysiological changes and targeted therapy in chronic lymphocytic leukemia (CLL)	\$105,000
Passmore, Steven (School of Medical Rehabilitation)	CIHR	The 43rd annual meeting of the Canadian Society for Psychomotor Learning and Sport Psychology	\$5,000
McClement, Susan (Dean's Office - Faculty of Nursing)	CIHR	The 2nd Annual Dignity Therapy Educational Workshop	\$20,000
Bruce, Sharon (Community Health Sciences)	CIHR	Exploring the role of established and non-traditional risk factors on diabetes and cardiovascular disease among a Manitoba First Nation population	\$262,092
Glazner, Gordon (Pharmacology and Therapeutics)	CIHR	Targeting the cytokine/NF-kB axis in diabetic neuropathy	\$50,224
Martens, Patricia (Community Health Sciences)	CIHR	PATHS equity for children: A program of research into what works to reduce the gap for Manitoba's children	\$1,900,000
Mordoch, Elaine (Dean's Office - Faculty of Nursing)	Fort Garry Legion Poppy Trust Fund	Promoting intergenerational relationships between children and youth whose grandparents have dementia and reside in long term care: A pilot study	\$3,000
Ball, Terry (Blake) (Immunology)	Fred Hutchinson Cancer Research Center	Comparative proteomic analysis of mucosal samples from the female genital tract	\$124,200

Ball, Terry (Blake) (Immunology)	Fred Hutchinson Cancer Research Center	Cervicovaginal specimen collection for evaluation of mucosal immune response	\$14,173
Mang'era, Kennedy (Faculty of Pharmacy)	Health Sciences Centre	Radiopharmacy Research Project	\$23,000
Afifi, Tracie (Community Health Sciences)	Health Sciences Centre Foundation	Types of gambling, gambling involvement, and gambling- related problems	\$30,950.40
Duan, Kangmin (Oral Biology)	Health Sciences Centre Foundation	Molecular mechanisms of the microbial interactions underlying oral polymicrobial diseases	\$35,000
Rastegar, Mojgan (Biochemistry and Medical Genetics)	Health Sciences Centre Foundation	To study the role of MeCP2 isoforms in neural stem cell fate decisions for Rett syndrome	\$35,000
Roberts, Daniel (Internal Medicine)	Kidney Foundation of Canada	Novel urine biomarkers of progressive interstitial fibrosis/tubular atrophy and renal allograft dysfunction	\$210,000
Ho, Juliet (Internal Medicine)	Kidney Foundation of Canada	Novel urine biomarkers of progressive interstitial/tubular atrophy and renal allograft dysfunction	\$25,000
Doupe, Malcolm (Community Health Sciences)	Manitoba Health	Western Regional Training Centre	\$775,000
Afifi, Tracie (Community Health Sciences)	Manitoba Health Research Council	Population based research in two important areas of public health: Family violence and problem gambling	\$99,485
Brassinga, Ann (Microbiology)	Manitoba Health Research Council	Legionella pneumophila immunopathogenesis in the C. elegans host model	\$99,961
Doupe, Malcolm (Community Health Sciences)	Manitoba Health Research Council	Linking unique clinical and health care use files to better understand nursing home quality care	\$99,999
Mahmud, Salaheddin (Community Health Sciences)	Manitoba Health Research Council	Role of long-term use of common medications in cancer prevention: A pharmacoepidemiologic research program	\$99,999

Xing, Mengqiu (Malcolm) (Mechanical and Manufacturing Engineering)	Manitoba Health Research Council	Biopolymer, nanotechnology and stem cell for bone tissue engineering	\$99,999
Glazebrook, Cheryl (Faculty of Kinesiology and Recreation Management)	Manitoba Health Research Council	Two are better than one: Multisensory-motor integration	\$99,997
Kim, Woo Kyun (Animal Science)	Manitoba Health Research Council	Regulation of mesenchymal stem cells by bioactive markers	\$100,000
Sorensen, John (Chemistry)	Manitoba Health Research Council	Inhibitors of glutamate 1- semialdehyde mutase (GSAM) as antibiotics	\$93,250
Afifi, Tracie (Community Health Sciences)	Manitoba Health Research Council	Substantiated reports of child maltreatment from the Canadian Incidence Study of reported child abuse and neglect (CIS 2008): An examination of co-occurring types of maltreatment, child health, and functional impairment, and perpetrator vulnerabilities	\$64,560
Ghia, Jean-Eric (Immunology)	Manitoba Health Research Council	Implication of the autonomic nervous system in modulating Crohn's disease	\$106,998
Mookherjee, Neeloffer (Internal Medicine)	Manitoba Health Research Council	Modulation of inflammation by cationic innate defense regulator peptides	\$172,403
Solbrig, Marylou (Internal Medicine)	Manitoba Health Research Council	Cannabinoids in health and disease	\$100,000
Mark, Brian (Microbiology)	Manitoba Health Research Council	Structural and mechanistic studies of bacterial and viral defense mechanisms	\$410,000
McManus, Kirk (Biochemistry and Medical Genetics)	Manitoba Health Research Council	Characterizing the spatial and temporal expression of RNF20 in colorectal cancer	\$187,168
Liebenthal, Einat (Physiology)	Manitoba Health Research Council	Neuroimaging of speech and language in health and in brain tumor or Epilepsy	\$100,666



Mahmud, Salaheddin (Community Health Sciences)	Manitoba Health Research Council	Statin use and the risk of prostate cancer: A population-based case-control study	\$56,480
Thompson, Genevieve (Nursing)	Manitoba Health Research Council	Development of a question prompt sheet for family caregivers of older adults with dementia living in long-term care	\$152,054
Werbowski-Ogilvie, Tamra (Biochemistry and Medical Genetics)	Manitoba Health Research Council	Identification of new molecular targets that regulate malignant brain tumour progression	\$100,000
Bruce, Sharon (Community Health Sciences)	Manitoba Health Research Council	Exploring the role of established and non-traditional risk factors on diabetes and cardiovascular disease among a Manitoba First Nation population	\$262,092
Glazner, Gordon (Pharmacology and Therapeutics)	Manitoba Health Research Council	Targeting the cytokine/NF- $\kappa$ B axis in diabetic neuropathy	\$50,224
Murphy, Leigh (Biochemistry and Medical Genetics)	Manitoba Health Research Council	Identification of more accurate biomarkers for response to endocrine therapy in breast cancer: Molecular profiling of human breast tumors with high and low estrogen receptor alpha phosphorylation-scores	\$36,750
Loewen, Peter (Microbiology)	Manitoba Health Research Council	Structural and mechanistic studies of bacterial and viral defense mechanisms	\$90,000
Hatch, Grant (Pharmacology and Therapeutics)	Manitoba Health Research Council	Cardiolipin synthesis as therapy for heart failure in persistent pulmonary hypertension	\$36,750
Davie, James (Biochemistry and Medical Genetics)	Manitoba Health Research Council	Comparison of intermediate-early gene expression regulation by histone H3 serine 10 and serine 28 phosphorylation	\$36,750
McNicol, Archibald (Oral Biology)	Manitoba Health Research Council	Oral bacteria-induced platelet activation	\$15,000
McKenna, Sean (Chemistry)	Manitoba Health Research Council	The role of RNA helicase DHX36 (RHAU) in telomerase function and telomerase maintenance interactions with human telomerase RNA (hTR)	\$73,500
Kong, Jiming (Human Anatomy and Cell Science)	Manitoba Health Research Council	A mechanistic study of delayed neuronal death in stroke	\$73,500

Kong, Jiming (Human Anatomy and Cell Science)	Manitoba Health Research Council	Ability of atypical antipsychotic quetiapine to reduce oxidative stress in a mouse model of amyotrophic lateral sclerosis	\$73,500
Brownell, Marni (Community Health Sciences)	Manitoba Health Research Council	Attention-deficit/hyperactivity disorder in Manitoba adults: A population-based study	\$3,725
Crooks, Dauna (Faculty of Nursing)	Manitoba Health Research Council	Theory development and testing of an intervention to enhance empathic understanding of patients' illness and symptom experiences by family caregivers	\$40,000
Finlayson, Marcia (Community Health Sciences)	Manitoba Health Research Council	Community supports for parents of young children: A needs assessment	\$4,929
Del Bigio, Marc (Pathology)	Medtronic Neurosurgery	Robert Pudenz Award for excellence in CSF research for 2009	\$7,500
Keijzer, Richard (Surgery)	Molly Towell Perinatal Research Foundation	Functional role of microRNA miR-200b in normal and abnormal pulmonary development due to congenital diaphragmatic hernia	\$39,000
Lee, Christina (Physical Therapy)	Motorcycle Ride for Dad	Effects of lifestyle intervention program on metabolic complications among men with prostate cancer receiving androgen deprivation therapy: A pilot study	\$34,000
Nickerson, Peter (Internal Medicine)	Mount Sinai School of Medicine	Individualizing therapy for kidney and heart transplant recipients (AARA supplement)	\$307,800
Schweizer, Frank (Chemistry)	NSERC	Characterization of PEGylated dispersinB	\$25,000
Blanchard, James (Community Health Sciences)	St. Boniface General Hospital	The development of a surveillance tool for chronic kidney disease and end stage renal disease: Data driven solutions in designing efficient care models	\$119,574
Nason, Richard (Surgery)	University Medical Group	Impact of physical activity on depression after cardiac surgery (IPAD-CS)	\$5,000
Arora, Rakesh (Surgery)	University Medical Group	Investigating mechanisms and prevention of bioprosthetic heart valve failure: A bedside dilemma brought to the benchside	\$23,951

Halayko, Andrew (Physiology)	University of British Columbia	Bio-airway research offering new concepts in health (BRONCH) partnership - Building a bio-engineered airway	\$82,439
Passmore, Steven (School of Medical Rehabilitation)	University of Manitoba	Approaches to understanding the movement and perceptual abilities of manual therapies and their clinical populations	\$25,000
Heaman, Maureen (Nursing)	University of Manitoba	Factors related to women's experiences and satisfaction with prenatal care	\$1,000
Heaman, Maureen (Nursing)	University of Manitoba	Factors related to women's experiences and satisfaction with prenatal care	\$3,000
Ho, Emmanuel (Faculty of Pharmacy)	University of Manitoba	Novel nanomedicine for the active targeting of lymphoid tissue	\$28,000
Keijzer, Richard (Surgery)	University of Manitoba	Functional role of microRNA miR-200b in normal and abnormal pulmonary development due to congenital diaphragmatic hernia	\$27,431
Oble, Darryl (Pathology)	University of Manitoba	D2C mouse model of cutaneous autoimmunity	\$20,303.41
Rody, Wellington (Preventive Dental Sciences)	University of Manitoba	Gingival crevicular fluid (GCF) proteome profile in the presence of dental root resorption	\$24,460.60
Rempel, Julia (Internal Medicine)	University of Manitoba	Immunopathogenesis in type 2 diabetes of First Nation youth: Pilot study	\$30,000
Temple, Beverley (Dean's Office - Faculty of Nursing)	University of Manitoba	Factors associated with the development of parastomal hernias in Manitobans living with an ostomy	\$32,750
Gole, Aniruddha (Electrical and Computer Engineering)	University of Manitoba	NSERC IRC Symposium 2011	\$2,100
Katz, Alan (Family Medicine)	University of Manitoba	Primary health care research unit (Residual funds from move from the St. Boniface Research Centre)	\$27,024
Nason, Richard (Surgery)	University of Manitoba	Outcomes after noncardiac surgery	\$210,000
Schroth, Robert (Preventive Dental Sciences)	University of Toronto	Reducing disease burden and health inequalities arising from chronic disease among Indigenous children: An early childhood caries intervention	\$40,886.42

Schroth, Robert (Preventive Dental Sciences)	Winnipeg Regional Health Authority	Healthy Smile, Happy Child project	\$20,000
---	------------------------------------	------------------------------------	----------

- Fifty-two health researchers were awarded (between August 15, 2011 and October 15, 2011) \$9.6 million for 62 projects from 21 sponsors. The researchers that were awarded funds are:

Researcher(s)	Funder/Program	Project Title	Funding
Jassal, Davinder (Internal Medicine & St. Boniface Hospital Research)	Andison (D.Elaine) Foundation Inc	The acute cardiovascular effects of marathon running in the aging population	\$15,000
Becker, Allan (Pediatrics & Child Health)	Andison (D.Elaine) Foundation Inc	Support for Canadian Healthy Infant Longitudinal Development (CHILD) study	\$20,000
Fowke, Keith (Medical Microbiology)	Canadian Association for HIV Research (CAHR)	Solvent abuse and HIV disease progression	\$15,000
Cuvelier, Geoffrey (Pediatrics & Child Health)	Canadian Blood and Marrow Transplant Group (CBMTG)	Evaluation of the aspirin triggered lipoxin 15-epi-LxA4 on survival in a murine model of lethal acute graft-versus-host disease	\$10,000
Yao, Xiao-Jian (Medical Microbiology)	Canadian Foundation for AIDS Research (CANFAR)	Investigation of functional role of HIV-1 integrase in viral nuclear import and integration	\$160,000
Giesbrecht, Edward (Occupational Therapy)	Canadian Occupational Therapy Foundation	Enhancing participation in the community by improving wheelchair skills (EPIC Wheels)	\$5,000
Fedirchuk, Brent (Physiology)	Canadian Paraplegic Association (Manitoba) Inc.	How do spinal modulatory systems enhance the excitability of lumbar motoneurons?	\$42,325
Schmidt, Brian (Physiology)	Canadian Paraplegic Association (Manitoba) Inc.	Facilitation of locomotor command signal transmission in the lesioned spinal cord	\$42,325
Shay, Barbara (Physical Therapy)	Canadian Paraplegic Association (Manitoba) Inc.	Investigations to reveal the optimal parameters that will facilitate generating a health benefit from voluntary exercise in those living with tetraplegia	\$41,027
Gardiner, Phillip (Physiology)	Canadian Paraplegic Association (Manitoba) Inc.	Effect of passive exercise on motoneuron electrophysiology, large sensory cell gene expression, and spinal cord metabolic glutamate receptor expression, in a rat spinal cord transected model	\$42,325

Murphy, Leigh (Biochemistry & Medical Genetics)	CancerCare Manitoba	Identification of more accurate biomarkers for response to endocrine therapy in breast cancer: Molecular profiling of human breast tumors with high and low estrogen receptor alpha phosphorylation-scores	\$36,750
Marshall, Aaron (Immunology)	CancerCare Manitoba	Phosphoinositide-dependant signaling pathways in B cell leukemia	\$18,375
Halayko, Andrew (Physiology)	Children's Hospital Foundation of Manitoba Inc.	Effects of statins on H1N1 influenza A infection	\$36,750
Uzonna, Jude (Immunology)	Children's Hospital Foundation of Manitoba Inc.	Identification of Leishmania major peptides that elicit protective memory T cell response	\$18,375
Pierce, Grant (Physiology)	CIHR	The effects of specific dietary fats on cardiovascular health	\$100,000
Mai, Sabine (Physiology)	CIHR	Étude transdisciplinaire du cancer du sein au Mali	\$92,000
Hasinoff, Brian (Pharmacy)	CIHR	Targeting topoisomerase II	\$629,276
McManus, Kirk (Biochemistry & Medical Genetics)	CIHR	Characterizing and targeting diminished rnf20 expression in cancer	\$754,049
Pierce, Grant (Physiology & St. Boniface Hospital Research)	CIHR	The use of flaxseed as a dietary intervention to modify cardiovascular disease	\$652,820
Soussi Gounni, Abdelilah (Immunology)	CIHR	Role of IgE/FcεRI pathway in airway smooth cells function in allergic asthma	\$664,241
Uzonna, Jude (Immunology)	CIHR	Regulation of secondary immunity in cutaneous leishmaniasis by Leishmania phosphoglycans	\$808,346
Wylie, John (Medical Microbiology)	CIHR	On-line and on-the-ground: Bridging the gap between vulnerable populations and public health	\$375,065
Kirshenbaum, Lorrie (Physiology & St. Boniface Hospital Research)	CIHR	Molecular regulation of E2F-1 dependent gene transcription and cell death signalling pathways in ventricular myocytes	\$749,900
Anderson, Hope (Pharmacy)	CIHR	Protective signaling by PPARs in cardiac hypertrophy	\$357,491

Cattini, Peter (Physiology)	CIHR	Activation, expression and hormonal regulation of the human pituitary growth hormone gene	\$717,121
Kelly, Debbie (Psychology)	CIHR	Functional lateralization of spatial cue use: An avian model of aging	\$74,120.42
Mahmud, Salaheddin (Community Health Sciences)	CIHR	Use of statins and prostate cancer risk and prognosis: A population-based study	\$148,228
Heaman, Maureen (Nursing)	CIHR	Expanding research and clinical skills related to psychosocial assessment and care for pregnant and postpartum women	\$5,000
Jordan, Larry (Physiology)	CIHR	Brainstem and spinal cord mechanisms for control of locomotion	\$926,209
Gardiner, Phillip (Kinesiology and Recreation Management)	CIHR	Activity-related adaptations in spinal cord neurons	\$150,000
Ho, Juliet (Internal Medicine)	CIHR	Novel urine biomarkers of progressive interstitial fibrosis/tubular atrophy and renal allograft dysfunction	\$202,018
Cook, Catherine (Community Health Sciences)	Health Canada	AHHRI CAHE Project Funding	\$35,000
Mookherjee, Neeloffer (Internal Medicine)	Health Sciences Centre Foundation	Investigating immune-modulatory effects of human cationic peptide LL-37 and its derivatives for chronic inflammatory diseases	\$34,997
Werbowski-Ogilvie, Tamra (Biochemistry & Medical Genetics)	Health Sciences Centre Foundation	Comparing the stem cell properties of the most invasive and non-invasive malignant brain tumor cells	\$32,987
Duhamel, Todd (Kinesiology and Recreation Management)	Heart & Stroke Foundation of Manitoba	Developing the resources, referral processes and community linkages that are needed to enhance the delivery of physical activity counseling and supports for sustained behaviour change within primary care and the community	\$80,000
Woodgate, Roberta (Nursing)	Heart & Stroke Foundation of Manitoba	Building youth capacity for heart health promotion: A school-based feasibility study	\$79,887
Del Bigio, Marc (Pathology)	Heart & Stroke Foundation of Manitoba	Periventricular hemorrhage in immature brain	\$10,000

Kirshenbaum, Lorrie (Physiology)	Heart & Stroke Foundation of Manitoba	Mechanisms of p53 mediated apoptosis in ventricular myocytes	\$10,000
Martens, Patricia (Community Health Sciences)	Heart and Stroke Foundation of Canada	PATHS equity for children: A program of research into what works to reduce the gap for Manitoba's children	\$100,000
Mattos, Fabio (Agribusiness & Agricultural Economics)	Laval University	Do farmers exhibit disposition effect?: Evidence from grain marketing	\$20,000
Casiano, Hygiea (Psychiatry)	Manitoba Health	Risk factors for suicidal ideation and self-harm behaviour among detained youth	\$15,000
Barclay-Goddard, Ruth (Physical Therapy)	Manitoba Health Research Council	Improving domains of health related quality of life and health related quality of life perception after stroke	\$85,599
Virues Ortega, Francisco (Psychology)	Manitoba Health Research Council	Neural, behavioural and emotional effects of ABA treatment in children with developmental disabilities	\$99,915
Marzban, Hassan (Human Anatomy & Cell Science)	Manitoba Health Research Council	Early cerebellar circuits are critical targets of rhombencephalosynapsis in cerebellotrigeminal-dermal syndrome	\$157,326
Barclay-Goddard, Ruth (Physical Therapy)	Manitoba Health Research Council	A model of community ambulation after stroke	\$11,591
Luo, Yunhua (Mechanical & Manufacturing Engineering)	Manitoba Health Research Council	Improve patient-specific prediction of osteoporotic fractures by developing advanced DXA-based finite element model	\$90,302
Murphy, Leigh (Biochemistry & Medical Genetics)	Manitoba Health Research Council	Identification of more accurate biomarkers for response to endocrine therapy in breast cancer: Molecular profiling of human breast tumors with high and low estrogen receptor alpha phosphorylation-scores	\$36,750
Xie, Jiuyong (Physiology)	Manitoba Health Research Council	Acetylation of hnRNP H/F in the regulation of alternative splicing	\$36,750
Tate, Robert (Community Health Sciences)	Manitoba Health Research Council	Positive reinterpretation and health and well-being in the men of the Manitoba Follow-up Study: Implications for successful aging	\$73,500

Lin, Francis (Physics and Astronomy)	Manitoba Health Research Council	A novel combinatorial guiding mechanism by CCR7 ligands for leukocyte migration and trafficking in complex chemoattractant fields	\$73,500
Becker, Allan (Pediatrics& Child Health)	Manitoba Health Research Council	Temporal associations between obesity and asthma in pubertal children	\$1,631
Nason, Richard (Surgery)	Manitoba Health Research Council	Investigating the impact of diabetes on the intrinsic cardiac nervous system and myocardial cell-cell communication	\$100,000
Marshall, Aaron (Immunology)	Manitoba Health Research Council	Phosphoinositide-dependant signaling pathways in B cell leukemia	\$18,375
Uzonna, Jude (Immunology)	Manitoba Health Research Council	Identification of Leishmania major peptides that elicit protective memory T cell response	\$18,750
Nason, Richard (Surgery)	Manitoba Medical Service Foundation	Investigating the impact of diabetes on the intrinsic cardiac nervous system and myocardial cell-cell communication	\$50,000
Marrie, Ruth (Internal Medicine)	McGill University Health Centre	2012 EndMS National Education and Training Program	\$48,000
McLachlin, Ronald (Transport Institute)	Province of Manitoba	Manitoba GrEEEn trucking program - Phase 4	\$230,905
Jayas, Digvir (Biosystems Engineering)	Province of Manitoba	Fetal Alcohol Spectrum Disorder (FASD) Research - Project Management	\$58,333
Xie, Jiuyong (Physiology)	Terry Fox Research Institute	Acetylation of hnRNP H/F in the regulation of alternative splicing	\$36,750
Doupe, Malcolm (Community Health Sciences)	University of British Columbia	Enhancing existing capacity in applied health services and policy research in Western Canada	\$40,500
Unger, Bertram (Internal Medicine)	University of Manitoba	Robotic simulation for medical education	\$25,000
Chochinov, Harvey (Psychiatry)	University of Manitoba	Dignity Therapy Workshop	\$22,000

- Nine investigators received a total of \$144,500 from the Natural Engineering and Research Council of Canada for eight projects. The researchers that were awarded funds are:



Researcher(s)	Funder/Program	Project Title	Funding
Rajapakse, Athula (Electrical & Computer Engineering)	Engage	Improving the dynamic performance of phasor measurement units	\$25,000
Ojo, Olanrewaju (Mechanical & Manufacturing Engineering)	Engage	Mechanical properties effects of delta ferrite in austenitic stainless steel	\$25,000
Irani, Pourang (Computer Science)	Engage	Interactive query system for internet protocol TV (IPTV) t-commerce applications	\$19,550
Thomson, Douglas (Electrical & Computer Engineering)	Engage	Inertial focusing for enhanced electronic detection of cells	\$25,000
Bridges, Greg (Electrical & Computer Engineering)	Engage	Wireless sensor platform for remote power line monitoring	\$25,000
Liu, Song (Textile Sciences)	Engage	Seaweed hybrid yarns	\$25,000
Zahradka, Peter (Physiology & St. Boniface Hospital Research) & Taylor, Carla (Human Nutritional Sciences)	CRD	Effect of c9t11-conjugated linoleic acid (CLA) on insulin sensitivity of skeletal muscle	\$36,065 (1 yr)
Ayele, Belay (Plant Science)	CRD	Hormonal regulation of pre-harvest sprouting in wheat	\$109,640 (3 yr total)

## ADMINISTRATIVE MATTERS

- The draft Sustainability Strategy was released on October 6, 2011. The Co-Chairs of the Sustainability Committee are presenting the draft strategy to a number of groups including Provost's Council, Administrative Council, UMSU Executive and others. They are gathering feedback from various groups and the committee is holding three workshops on October 27 and November 15 and 24 (the latter two open to the public), seeking further feedback on the action plan.
- Access Copyright – The litigation before the Copyright Board over the proposed tariff continues. AUCC has applied for judicial review of two problematic decisions.
- Substantial completion of the ART Lab will be October 27th 2011 with final completion set for December 15th 2011. The commissioning process has begun and the Director of the School of Art and staff will move into the new building before Winter Break. Classes will begin in the new building in January.
- Preliminary site work has begun for the Taché redevelopment project. Stuart Olson Dominion offices are now onsite and asbestos abatement has begun. Selective demolition is ongoing throughout the building. A fall, 2014 completion date is expected.

- Active Living Centre Tunnel – Underground services are being disconnected, the site fencing is in place and 90% of the piles have been driven. The scheduled completion date is August 2012.
- The Wallace Building Addition is nearing substantial completion and damage from the floods has been remedied.
- Wayfinding Strategy - An internal working group has been struck to provide recommendations to enhance and improve navigation and wayfinding for pedestrian and vehicular traffic at the Fort Garry and Bannatyne Campuses.
- The two 2009 winners of (Collaboration to Promote Art and Music) CPAM's Sculptural Experience have installed their sculptures on the 2nd Level University Centre patio. Ben Bonner's "Golem's Pelt" and Laura Magnusson's "Return Bin" will have plaques beside their sculptures installed sometime in November. The 2010 winning sculpture should be complete and ready for installation by mid-December. The 2012 competition has been launched with a deadline of January 31, 2012. This will complete the sculpture competition under the CPAM Program.
- The UMDCSA – Dental Clinical Staff Association have ratified a new three (3) year Collective Agreement from April 1, 2010 to March 31, 2013. The agreement contains no general salary increases for April 1, 2010 and April 1, 2011. A general salary increase of 2.9% was negotiated for April 1, 2012.
- The AESSES Collective Agreement expires on April 8, 2011. The University filed for conciliation on September 28. The conciliation officer from the Provincial Government met with the parties on October 12, 20 and November 1, 2011.
- The Anniversary Years of Service luncheon will be held on November 28 (Fort Garry) and November 22 (Bannatyne) honouring those staff who have contributed 10, 30, 35 and 40 years of service.
- Since September, the ROSE program has seen three initiatives reach formal completion, all within the Finance stream. The FAST AR, Purchasing Operating Model and Monthly Reporting 1 initiatives were closed, with a project closure report completed for each. Of the remaining 26 initiatives, Integrated Travel (Finance stream), Financial Aid and Awards (Students stream), Employee Self-Service (Human Resources stream), and eRecruitment/REACH-UM (Human Resources stream) have recently gone live. Highlights from each stream are as follows:

**a. Finance Stream**

- October 26, 2011 marked the launch of the new integrated travel and expense system, Concur. The new product is being deployed in phases with the expectation that all areas of the University will be on the new system before fiscal year-end. The product and configuration were selected and developed with extensive input from stakeholders and the launch is being supported by a comprehensive training plan. Travelers are encouraged to sign up for a University travel card which integrates with the system to make expense claim completion convenient.
- The project charter and implementation plan for Ariba eProcurement is going through the approval process.
- Research Accounting Initiative - The InfoEd interface to Banner feed is being tested.

**b. Human Resources Stream**

- October 12, 2011 was the go-live date for the Employee Self Service portal providing employees with 24/7 on-line access to their personal information stored in the Human Resources Information System (VIP).
- Work is nearing completion on the eRecruitment System (REACH-UM). Training was completed on October 27, 2011 for the first phase (administrative and support staff positions only) and went live on October 31, 2011.

**c. IT Stream**

- Discussion and planning continues for the shared services rollout of desktop support to three additional faculties: Kinesiology, Nursing and Engineering.
- The selected vendor for the Email/Calendar Initiative has been engaged to provide implementation services. The project encountered a delay with respect to internal resourcing of network technical staff, but the issue has been resolved.
- The preferred vendor will be awarded the Print Management contract pending board approval on November 15, 2011.
- Negotiations with the preferred PC and server supplier for the IT Procurement Centre (ITPC) have commenced and a submission to the Board of Governors has been made. The target processes for IT Procurement have been finalized, while the development of an organizational model and key performance indicators for the ITPC is in progress.

**d. Physical Plant Stream**

- Training for service guidelines and performance monitoring for the Work Order Improvements initiative is complete. A key performance indicator (KPI) measurement is to be developed on track for project closure at the end of December 2011.
- Project Management Improvements Initiative – A detailed work breakdown structure for the change to the Low Bid Policy has been developed. A draft proposal for dealing with space issues has been forwarded to Office of the Vice-President (Administration).

**e. Research Services Stream**

- Contracts Initiative – The Collaborative Research and Sponsored Research Agreements are ready to be posted and the Institutional Cost (Overhead) policy is out for approval.
- Compliance Systems Implementation Initiative - Have achieved 80 per cent success rate with digital submissions at the Bannatyne Human Ethics Office. The team met with the Human Ethics office at the Fort Garry campus to discuss the efficient implementation of InfoEd software. First reporting tools for Animal Ethics complete.

**f. Students Stream**

- Admissions Initiative – The team is working with its preferred vendor and the U of M legal office to address the new Privacy Impact Assessment (PIA) assessment process for this project's selected technology application.
- Financial Aid and Awards Initiative – At last count, U of M students had successfully completed 3,331 bursary applications, with another 1,811 in progress. Report development and testing have begun and will be used in the selection of bursary recipients. Meanwhile, 4,263 students have received \$6.7M in scholarships using the automated eligibility checking for disbursements. This tool has saved somewhere between 40 to 80 person hours. The project team is developing and testing bursary ranking reports which will be used by faculties in assessing and selecting recipients of the bursaries.

- Student Recruitment/CRM Initiative – A contract has been signed with Hobsons for the purchase of the CRM software - CONNECT - for both undergraduate and graduate student recruitment. Information gathering is set to begin on business processes for the purpose of creating a draft implementation plan.
- Future Student Website Initiative – The team is working with agency McKim Cringen George (MCG) to finalize web design/navigation. A November go-live is planned.
- Classroom Scheduling Initiative – The configuration of the academic scheduling components in the Ad Astra Scheduling test system has been completed. The project is being re-planned to implement academic scheduling before event scheduling in order to take advantage of the software's optimization feature for the 2012/2013 academic year for the Fort Garry campus.

**g. Legal Stream**

- Policy Development and Management Initiative – An initial charter and plan is being completed. Research into policy development and management policies at other Canadian universities continues.

**h. External Relations Stream**

- Project Jigsaw Initiative – The project charter and plan are ready for first draft review. Five new client relations coordinators began work with the Marketing Communications Office in October and a manager of design and production is being hired. Space issues have been resolved with a move of the client relations staff to Chancellor's Hall.
- Philanthropy Initiative – A project charter and plan are almost complete for this initiative.

**EXTERNAL MATTERS**

- **Visionary Conversations** continues to be an extraordinary dialogue between leading university experts and members of the community. To date there have been two Visionary Conversation events:
  - Visionary Conversations premiere event, "Apocalypse or Utopia?" hosted by Dr. David T. Barnard, President & Vice-Chancellor took place on Wednesday, September 14, 2011 in the Robert B. Schultz Theatre, St. John's College with over 275 people in attendance. Featured speakers included: David Barber, Rick Holley, Karen Busby, Michael Freund, Diana Brydon, Brenda Elias.
  - Visionary Conversation, "Livable Cities" featuring Michelle Richard, Ralph Stern and Richard Milgrom took place on October 18, 2011 in the Robert B. Schultz Theatre, St. John's College with over 250 people in attendance.

Upcoming Visionary Conversation events will be held at Robert B. Schultz Theatre, St John's College as follows:

- November 9 - Our Aging Society
- December 14 - Our Changing Climate
- February 15 - Managing our Water Resources for the Future
- April 11 - Human Rights and Gender Issues
- June 13 - The Food We Eat

- **Trailblazers:** The University of Manitoba launched an innovative new advertising campaign that tells the bold new “Trailblazer” brand story. Winnipeggers will be seeing the new University of Manitoba message around the city and all over the social media world: on transit shelters, billboards (electronic and traditional) and social media platforms such as Facebook and Twitter. Additionally, participants in a contest will have an opportunity to show how they define themselves as trailblazers, visionaries, mavericks, etc. through short videos. One of the unique features of the campaign are the two transit shelters – one across from the MTS Centre, the other at the Osborne/Pembina interchange – which are entirely wrapped with the new “Trailblazer” message and will invite people to participate in the contest. The campaign elicited media coverage in the *Winnipeg Free Press* on Saturday, October 22, which featured an interview with VP (External) John Kearsey and with CJOB radio on Thursday, October 27th, which also interviewed VP (External) John Kearsey.
- **TRC Statement:** The media coverage of the University of Manitoba’s statement to the Truth and Reconciliation Commission was quite broad and supported the University’s intent that the statement of apology and reconciliation was heard by residential school survivors and their families; by faculty, staff and students at the university and by the broader community. It also supported directly the University of Manitoba’s strategic planning framework, in particular priorities around human rights and Aboriginal achievement. It was covered on CBC’s evening news broadcast, *The National*, as well as on the *Global National* news and by APTN; in newspapers across the country, including the *Toronto Star*, the *Halifax Chronicle Herald*; on all local television and radio stations, and by the *Winnipeg Free Press*.
- **Homecoming 2011:** The Reunion Dinner was moved from the Victoria Inn to the Hotel Fort Garry. More than 300 guests were in attendance. Former Premier of Manitoba Mr. Howard Pawley was honoured at the dinner as the 2011 Distinguished Alumni Award recipient. As part of the honour, a tribute video was prepared by the Alumni Association along with members of the MCO team. Faculty of Architecture alumnus Dean Jenkinson, reprised his role as event emcee and the audience was treated to musical performances from the duo of Edmund Dawe (Dean, Marcel A. Desautels Faculty of Music) and Oleg Pokhanovski as well as a student/alumni quartet and alumni jazz trio.
- New events were added to Homecoming week including: the inaugural Visionary Conversations event “*Apocalypse or Utopia?*” an open house at Migizii Agamik and the opening of the Bruce D. Campbell Farm and Food Discovery Centre.
- Traditional events, such as the Bison football game, continued to grow thanks to heightened partnerships within external relations and with other groups (student life, UMSU) on campus.
- The overall promotion of Homecoming received a boost from the close partnership between the Alumni Association and MCO, which enabled Homecoming to take on the look and feel of the Trailblazer (current branding) campaign. The efforts and the creative execution were commented on considerably, and favourably, by alumni. Social media was used more than in years past to generate interest around Homecoming as well via the Association’s Facebook and Twitter pages.
- **The Alumni Association Board of Directors** recently announced that Mr. Ryan Buchanan has accepted the position of Vice-President.

- The December issue of ***On Manitoba*** invited alumni to share their ‘reasons to love’ the U of M by running a random list of places and things on campus that are must-see/must-do in nature. Stories have flowed in from alumni and will be included in the feedback section of the December issue.
- The ***Alumni FYI*** e-newsletter continues to reach an alumni base of 50,000 and growing. Regular e-newsletters are sent out monthly. As well, several recent special e-invites or e-messages have been sent out surrounding the Visionary Conversations events and the University’s Statement of Apology and Reconciliation to Indian Residential School survivors.
- **The Alumni Association’s Facebook** page is seeing greater utilization and during the past month posts to the page have seen an increase in viewership of 24 per cent while monthly active users have increased by 9.5 per cent.
- **Reunions:** Bison Men’s Hockey held a reunion on September 24; An Ag ’71 reunion took place October 21 to 22. The event included a Friday night reception in the Agriculture building as well as a Saturday morning group discussion on what has changed in agriculture during the past four decades, and an evening dinner in Marshall McLuhan Hall. About 50 people attended each event. A reunion for Ag 80/81 & 86/87 is taking place November 4-6.
- **Government & Community Engagement (GCE)** organized an information session between Western Economic Diversification (WED) and the Deans and researchers at the University. The purpose of the meeting was to provide University researchers with a clear idea of the mandate of WED and to understand what is expected in funding applications and proposals. It was also made clear that Government and Community Engagement was the Universities main point of contact with WED and that all funding proposals need to be coordinated through GCE.
- GCE organized a tour of the new stadium complex and the Eureka Project for federal Minister Vic Toews and MP Rod Bruinooog. The purpose of the tour was to showcase progress on the stadium construction and to also demonstrate how KIP funding had supported the expansion and development of the Eureka Project.
- President Barnard hosted a community breakfast for Chamber of Commerce and Industry organizations on Wednesday, September 21 at the James W. Burns Executive Education Centre. The event was attended by 11 Executives representing industry associations/organizations.
- GCE partnered with YES Winnipeg in making a presentation to a major industry player looking at locating in Winnipeg or on the east coast.
- **Gifts to the University:** As of October 25, 2011, the university has raised \$10,258,742.48 in this fiscal year. Significant gifts include:
  - Eugene Reimer has given a gift of \$308,646.78 to create two awards, the Eugene Reimer Scholarship for Biological Sciences and the Eugene Reimer Scholarship for the Numerical Sciences.
  - The Winnipeg Foundation made a five-year commitment of \$250,000 to support the Mindermar Professorship in Human Simulation at the Faculty of Medicine.

- The Manitoba Pharmaceutical Association gave \$137,300 to the Manitoba Pharmaceutical Association Fund in support of the Faculty of Pharmacy.
- **Isbister Legacy Society:** On September 14th, the Planned Giving team held the first Isbister Legacy Society recognition dinner for 133 guests, which included 92 donors and 41 staff/faculty members. Following dinner, guests proceeded to the premiere of Visionary Conversations. The event was very well-received by everyone.
- The **Call Centre** opened for business on Wednesday, September 7. As of October 17, students have been calling graduates on behalf of the Faculty of Arts, Education, Human Ecology, School of Art and the Marcel A. Desautels Faculty of Music. They have made 43,433 phone calls and have spoken to 5,455 graduates.
- Representatives from the **Li Ka Shing Foundation** visited the University of Manitoba on Tuesday, September 20, 2011 to celebrate the tenth anniversary of the University of Manitoba/Shantou University Academic Exchange Program. During their visit, the Foundation announced a further \$1 million to support the exchange program. This represents their second million-dollar gift to this fund.
- **Alumni philanthropy:** A dinner was held during homecoming in honour of our alumni philanthropic leaders. Thirty-seven people, including staff, attended the event, which was followed by the Marcel A. Desautels Faculty of Music Homecoming Gala Concert.
- The **Ross McIntyre Digital Imaging Centre at the Faculty of Dentistry** had its grand opening during homecoming on Saturday, September 17, 2011. Thirty-five people attended the event, and student ambassadors gave tours to the alumni, donors, faculty and staff who attended. The facility received tremendous support from dentistry alumni and friends, enabling the Faculty to purchase a Cone Beam CT machine that will allow Dentistry students to train on leading-edge equipment. This will make Manitoba's dental students some of the best prepared dentists in Canada.
- On October 24, Kiki Delaney and Peter Herrndorf hosted a reception in Toronto showcasing the **Taché Arts Project** to alumni and arts patrons. President and Vice-Chancellor David Barnard gave a presentation on the project and the evening included a performance by Edmund Dawe and Oleg Pokhanovski from the Marcel A. Desautels Faculty of Music. There were 44 guests in attendance, including university representatives.
- The University of Manitoba has engaged a consulting firm from Toronto, KCI, to conduct a **feasibility study for a major capital campaign**. The study will be conducted over the next four to five months and will provide us with a campaign plan and budget, and will identify campaign leadership and strategies for presenting our campaign priorities.

**Report of the Senate Executive Committee**

**Preamble**

The Executive Committee of Senate held its regular monthly meeting on the above date.

**Observations**

**1. Speaker for the Executive Committee of Senate**

Professor Emily Etcheverry will be the Speaker for the Executive Committee for the November meeting of Senate.

**2. Comments of the Executive Committee of Senate**

Other comments of the Executive Committee accompany the report on which they are made.

Respectfully submitted,

Dr. David Barnard, Chair  
Senate Executive Committee  
Terms of Reference:

[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/477.htm](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/477.htm)



## **Report of the Joint Senate Committee on Joint Masters Programs between the University of Winnipeg and University of Manitoba**

---

### **Preamble**

1. For information on the powers and duties of the Joint Senate Committee (JSC), please visit point #2 of the committee's terms of reference which are available at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/503.htm](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/503.htm)
2. The JSC met on the above-noted date to consider proposals from the Joint Discipline Committees (JDC) of Religion and History.

### **Observations**

1. Membership on the committee for 2010-2011 was: Dr. George MacLean (Chair); Dr. John Doering (Dean, Faculty of Graduate Studies UM), Dr. Zana Lutfiyya (Faculty of Education UM), Dr. Mark Libin (English, Film & Theatre UM), Dr. Jessica Senehi (Peace & Conflict Studies UM), Dr. Sandra Kirby (Assoc. Vice President Academic & Dean of Grad Studies UW), Dr. Sharon Wall (History UW), Dr. Karen Harlos (Business Administration UW), and Dr. Joan Grace (Politics UW).
2. The JDC of the Joint Master's Program in Religion recommends that the degree parchments of the Joint Master of Arts in Religion display the names of both participating institutions, The University of Winnipeg and The University of Manitoba, as the graduates of this program are alumni of both universities.

Historically, JMP students in Religion have been informed that they are able to choose whether their parchment displays the institutional name University of Winnipeg or University of Manitoba. In the absence of finding any Council of Post-Secondary Education (COPSE)-approved documentation on this matter, it was suggested that the Religion JMP parchments be treated in the same manner as the parchments for the other JMPs (History, Public Administration, and Peace & Conflict Studies).

3. The JDC of the Joint Master's Program in History recommends that *Pt. B: History* (pgs. 8 & 9) of the document entitled *Regulations Governing the Joint Masters Programs* ([http://umanitoba.ca/faculties/graduate\\_studies/media/JMP\\_Regulations.pdf](http://umanitoba.ca/faculties/graduate_studies/media/JMP_Regulations.pdf)) be amended. The terms of the Joint Masters Programs regulations occasionally require alteration in order to take account of changes in program offerings and in the administrative culture and practice of the institutions. A number of changes are proposed in order to address some of these issues. These amendments to Part B of the agreement were passed at the 3 December 2010 meeting of the History Joint Discipline Committee.

**New** 4. a) (3) The normal term of office of elected JDC members shall be two (2) years. There shall be no limit on the number of terms an individual may serve.

**Revised** 4. a) ~~(3)~~ (4) Vacancies, however caused, shall be filled by the relevant Department (for faculty), or students.

**New** 4. a) (5) Student members of the JDC shall not participate in decisions or recommendations on individual student cases involving the review of confidential student files, including admissions and fellowship, scholarship or prize rankings.

**Revised** 4. d) 13 c) The courses HIST 7770(6) Selected Topics/HIST-7003(6) Selected Topics and HIST 7774/HIST-7002(3) Independent Study/Reading shall continue to be offered, and shall not be included in the count of courses offered by either department.

4. The JSC also discussed several matters of interest for all JMP programs. Though none of these issues involved resolutions or recommendations, they included:
- a. Access to student information/institutional accounts;
  - b. Decision-making process on applications;
  - c. Student support in Joint Masters Programs ;
  - d. Sharing best practices across all Joint Discipline Committees (JDCs) ;
  - e. JDC record keeping; and
  - f. Problem solving mechanisms

### **Recommendations**

**The Joint Senate Committee recommends THAT: the proposals of the Joint Discipline Committees of Religion and History be approved by University of Manitoba and University of Winnipeg Senates.**

Respectfully submitted,



George A. MacLean, Chair  
Joint Senate Committee

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

**Report of the Senate Committee on Admissions concerning a proposal from the Faculty of Agricultural and Food Sciences to change admission requirements for its Agriculture diploma program (2011.10.21)**

**Preamble**

1. The terms of reference for this committee can be found at: [http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/490.htm](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/490.htm).
2. The proposed change was approved by the Agricultural and Food Sciences Faculty Council on September 14, 2011.

**Observations**

1. Students enter the Agriculture diploma program directly from high school; University 1 is not required.
2. Currently, applicants must be high school graduates with Senior 4 standing in English, mathematics, and one science course, normally either biology, chemistry, or physics.
3. Students without a suitable high school standing may be admitted upon the recommendation of the Agriculture Diploma Selection Committee. The Committee will review each application and interview the applicant. The maturity, scholastic ability and agricultural experience of the applicant will be considered.
4. The Faculty of Agricultural and Food Sciences proposes to raise the minimum entry average for the Agriculture diploma program, bringing the entrance requirements for this program more closely in line with the general entrance requirements for the University. Currently, students only need a pass (50%) in their high school courses. The Agriculture Diploma Council was not prepared to move to the 63% minimum average grade common across the university, suggesting that 60% could be considered a C grade and noting that this is a diploma program, not a degree-credit program. This increase in high school minimum requirements was determined after looking at historical data and the suspension rate/success rate for students with high school marks below 63%.
5. Note that the option to allow students entry through the Agriculture Selection Committee process remains.
6. This change should be effective for the September 2013 intake to allow students to plan ahead.

**Recommendation**

The Senate Committee on Admissions recommends to Senate that, effective for the September 2013 intake, applicants to the Agriculture diploma program be required to have a minimum average of 60% over the following three courses: English 40S, mathematics (40S or 45S), and a science 40S.

Respectfully submitted,  
Susan Gottheil, Chair, Senate Committee on Admissions

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

**Report of the Senate Committee on Admissions concerning a proposal from the Faculty of Dentistry to eliminate the Transfer Applicant Category from the Faculty of Dentistry admission process (2011.10.21)**

**Preamble:**

1. The terms of reference for this committee can be found at:  
[http://umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/490.htm](http://umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/490.htm).
2. The Committee for Selection in Dentistry considers the acceptance of applicants through the Regular, Canadian Aboriginal, and Special Applicant Categories into the first year of the Faculty of Dentistry undergraduate dentistry program, and through the Transfer Applicant Category into the second year of the Faculty of Dentistry undergraduate dentistry program. In the Transfer Applicant Category, the Committee will consider only those applicants who are seeking admission into second year Dentistry and who are currently enrolled in a dental program accredited by the Commission on Dental Accreditation of Canada.

Each of the following conditions must be met:

- a. Applicants will only be considered if space is available.
- b. Applicants will only be considered in *exceptional* circumstances as stipulated in the applicant's autobiographical sketch.
- c. Applicants must submit official documents that demonstrate an acceptable level of performance in all of the pre-requisite requirements for entrance to first year Dentistry at the University of Manitoba.
- d. Applicants must submit official transcripts that demonstrate an acceptable level of academic performance in dental courses completed to date.
- e. Applicants must submit outlines of courses taken in the original dental school. These courses must be assessed by the University of Manitoba, Faculty of Dentistry course coordinators and must be equivalent to those of the University of Manitoba's first year dental program.
- f. Eligible applicants will be interviewed by a single panel using a non-structured interview. The interview will last a maximum of 45 minutes. Applicants must submit an autobiographical sketch, not exceeding 800 words, which includes the specific reasons why the applicant merits consideration in this category, to be used as background information for the interview process.

**Observations:**

1. The conditions that must be met to be considered and accepted as a transfer student are stringent and are rarely met. Moreover, in only rare cases is space in the second year class available to accommodate a transfer student. It has been recognized that the first year content in all dental programs accredited by the Commission on Dental Accreditation of Canada has become so diverse, relative to each program, that transfer from one program to another would require extensive remediation of the transfer

student. As a result, no transfer applicant has been accepted into the Faculty of Dentistry at the University of Manitoba in over ten years.

2. Transfer applicants must pay a \$100 non-refundable application fee for what represents a consideration for an acceptance that cannot be realized.
3. Those transfer applicants who wish acceptance to the Faculty of Dentistry at the University of Manitoba remain eligible for application to the first year of the program through the Regular, Canadian Aboriginal, and/or Special Applicant Categories.

**Recommendation:**

The Senate Committee on Admissions recommends that Senate approves the proposal from the Faculty of Dentistry to delete the Transfer Applicant Category from the Faculty of Dentistry admission process, effective for the 2012 intake.

Respectfully submitted,  
Susan Gottheil, Chair, Senate Committee on Admissions

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