

Senate  
Senate Chamber  
Room E3-262 Engineering Building  
WEDNESDAY, December 5, 2007  
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** Handout

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 in the Office of the University Secretary, Room 312 Administration Building.

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

1. **Report of the Senate Committee  
On Curriculum and Course Changes- Part A** Page 17

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

1. **Report of the Senate Committee on Awards- Part A** Page 128  
2. **Report of the Senate Committee on Academic Review** Page 135  
3. **Correspondence from COPSE RE: Statement of Intent  
Bachelor of Science (Hon) Forensic Science** Page 144

### **IV REPORT OF THE PRESIDENT** Page 145

### **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 7, 2007**

### **VII BUSINESS ARISING FROM THE MINUTES**

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

1. **Report of the Senate Executive Committee** Page 162

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

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

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

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

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|--|-----------------|
| <b>1. <u>Report of the Senate Committee on Awards – Part B</u></b>   | <b>Page 163</b> |
| <br><b>2. <u>Undergraduate Changes with Resource Implications<br/>Or Course Changes Beyond Nine Credit Hours</u></b>                                     |                 |
| <b>a) <u>Department of History</u></b>   |                 |
| <b>i) <u>Report of the Senate Committee on<br/>Curriculum and Course Changes – Part B</u></b>  | <b>Page 169</b> |
| <b>ii) <u>Report of the Senate Planning and<br/>Priorities Committee</u></b>   | <b>Page 171</b> |
| <br><b>b) <u>Proposal to Add an Accounting Major to the<br/>Bachelor of Administration degree at the<br/>Collège universitaire de Saint-Boniface</u></b> |                 |
| <b>i) <u>Report of the Senate Committee on<br/>Curriculum and Course Changes</u></b>   | <b>Page 172</b> |
| <b>ii) <u>Report of the Senate Planning and<br/>Priorities Committee</u></b>   | <b>Page 174</b> |
| <br><b>3. <u>Proposal for the Establishment of a Professorship in<br/>Spine Biomechanics and Human Neurophysiology</u></b>                               |                 |
|  | <b>Page 175</b> |

**X ADDITIONAL BUSINESS**

**XI ADJOURNMENT**

Please Call Regrets to 474-6892 or meg\_brolley@umanitoba.ca

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

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### Preamble

1. The terms of reference for the Senate Committee on Curriculum and Course Changes (SCCCC) are 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 1 and 15, 2007, to consider curriculum and course changes from Faculties and Schools.

### Observations

#### 1. General

In keeping with past practice, most changes for departments totaling 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 is proposing the deletion of **PLNT 4540 Plant Genomics** and replacing it with **PLNT 4XXX Introductory Plant Genomics**. This will eliminate confusion between the undergraduate course and the graduate course of the same name.

#### 3. Faculty of Architecture

The Faculty is proposing the deletion of two courses which have not been offered for many years, **079.403 Process and Form (3)** and **079.901 (3)**(name unknown).

#### 4. Faculty of Arts

##### Anthropology

The department is proposing the modification of **ANTH 2450 Ethnology of China (B)** to add an introductory anthropology course as a prerequisite.

## Canadian Studies

The program is proposing the modification of the list of approved courses to add: **POLS 1YAA Law, Politics and Power in Canada**, **POLS 3YAA Canadian Public Management**, **POLS 4YGG Indigenous Governance**, and the deletion of **POLS 2570 Introduction to Public Administration**, **ICEL 2300 Icelandic-Canadian Literature**, and **ICEL 3460 Laura Goodman Salverson**. These modifications reflect course changes in the Political Studies and Icelandic departments.

## Central and East European Studies

The Honours Double Program is being modified to replace **RUSN 3930 Advanced Russian (6)** with **RUSN 3AAA Advanced Russian 1 (3)** and **RUSN 3AAB Advanced Russian 2 (3)**; the requirement for **POLS 4810 Seminar in Marxist-Leninist and Contemporary Marxist Political Theory** is being deleted to reflect deletion of the course by the Political Studies Department and **GEOG 3600 Geography of Ukraine (3)** is being removed as an option in the listing of 6 credit hours of required courses to reflect the deletion of the course by the Department of Environment and Geography. List A is being expanded to include: **FAAH 1030 Introduction to Art 1A**, **FAAH 1040 Introduction to Art 2A**, **FAAH 1050 Introduction to Art 1B**, and **FAAH 1060 Introduction to Art 2B**. List B is being expanded to include: **GRMN 3AAA/SLAV 3AAA Special Topics in Comparative German and Slavic Studies**, **GRMN 3AAB German Representations of War**, **POLS 3XAA Introduction to Marxism**, **POLS 3ZCC Politics, Government and Society in Ukraine**, **FAAH 4070 Seminar in Art History 1 (when its focus is on Central and Eastern Europe)** and **FAAH 4080 Seminar in Art History 2 (when its focus is on Central and Eastern Europe)**; marked for deletion from List B are **POLS 2920 Government, Politics and Society in Ukraine**, **POLS 4810 Seminar in Marxist-Leninist and Contemporary Marxist Political Theory** and **GEOG 3600 Geography of Ukraine (3)** which have been deleted by the Departments.

## Economics

The department is proposing the modification of **ECON 2420 Economics of the Labour Process and Labour Relations**, **ECON 2500 Labour and Technology**, **ECON 3510 Industrial Relations**, **ECON 3720 Urban and Regional Economics and Policies** to reflect changes made to prerequisite courses by the Labour Studies Program.

The Economics-Statistics Joint Honours Program is proposing that Year 2 be modified to add **STAT 2400 Introduction to Probability 1 (3)** as a requirement and to reduce the approved Economics elective requirement from 6 to 3 credit hours. In Year 4, the program is proposing the deletion of **STAT 4630 Stochastic Processes (3)** and the increase of the approved Economics elective requirement from 9 to 12 credit hours.

The Economics-Mathematics Joint Honours Program is being modified to delete **MATH 2200 Sets and Real Numbers (3)** and replace it with **MATH 2XX2 Fundamentals of Mathematical Analysis (3)** (which will be numbered MATH 2202) to reflect course changes made in the Mathematics Department.



## English

The department is proposing that the course descriptions for **ENGL 0930 English Composition** and **ENGL 0940 Writing About Literature** be modified to clarify that these two courses do not satisfy the Humanities requirement.

## French, Spanish and Italian – French

The department is proposing the deletion of **FREN 1250 Français oral 1 (6)**; and the introduction of **FREN 1XXX Français oral 1 (3)**. Course modifications for **FREN 1150 Introductory French** and **FREN 2610 Français oral 2**, reflect the introduction of **FREN 1XXX** in the prerequisites. The following courses have been modified to change the prerequisite grade requirement from 'B' to 'C': **FREN 2620 Grammaire et lexique**, **FREN 3100 Littérature française du dix-huitième siècle**, **FREN 3120 Poésie française du vingtième siècle**, **FREN 3140 Roman canadien-français**, **FREN 3160 Roman et nouvelle français du dix-neuvième siècle**, **FREN 3350 Français oral 3**, **FREN 3500 Littérature du 17<sup>e</sup> siècle**, **FREN 3810 Français commercial**, **FREN 3850 Civilisation canadienne française**, **FREN 3860 Études sur Beauvoir**, **FREN 3870 Stylistique comparée 2**, **FREN 3890 Français du travail et des loisirs**, and **FREN 3910 Expression écrit 2**.

The French Major and Minor Programs are being modified to delete the statement, 'students with a grade of 'B' or better in FREN 1250 who have taken and passed a special written test may also declare a Major/Minor as well as take any courses numbered at the 2000 level.' The French Major and Minor Programs are being modified to reflect that only one of: FREN 1190, FREN 1200, or FREN 1XXX may be used in the 30 hour Major or 18 hour Minor, but all will be included in the degree.

## French, Spanish and Italian – Spanish

The department is proposing the deletion of **SPAN 3710 Nineteenth-Century Spanish Poetry and Drama (3)** and the introduction of: **SPAN 1XXX Introductory Spanish 2 (3)**, and **SPAN 2XXX Contemporary Spanish Female Playwrights (3)**. Modifications of the following courses reflect changes to 'may not be held with restrictions' or to update prerequisites: **SPAN 1180 Introductory Spanish**, **SPAN 1260 Intermediate Spanish Language Review**, **SPAN 1270 Spanish Oral 1**, **SPAN 1280 Spanish for Native Speakers**, and **SPAN 1290 Accelerated Intermediate Spanish**.

Changes are proposed in the General Major and Advanced Major Programs (Option 2): Year 1 and 2 are being modified to reflect the following new requirements: Year 1: **SPAN 1XXX Introductory Spanish 2**, Year 2: **SPAN 1260 Intermediate Spanish Language Review** and **SPAN 1270 Spanish Oral 1**, or **SPAN 1290 Accelerated Intermediate Spanish**; and **SPAN 2550 Advanced Spanish Composition**; and 6 credit hours from Spanish courses numbered at the 2000 level. In the Minor Program (Option 1): Year 3 is being modified to reflect the following new requirements: 3 credit hours from Spanish courses numbered at the 2000 level and **SPAN 2550 Advanced Spanish Composition**. In the Minor Program (Option 2): Years 1 and 2 are being modified to reflect the following new requirements: Year 1: **SPAN 1XXX Introductory Spanish 2**, Year 2: **SPAN 1260 Intermediate Spanish Language Review** and **SPAN 1270 Spanish Oral 1**, or **SPAN 1290 Accelerated Intermediate Spanish**; and **SPAN 2550 Advanced Spanish Composition**. In the Minor Program (Option 3): Year 2 is being

modified to reflect the following new requirements: 3 credit hours from Spanish courses numbered at the 2000 level and **SPAN 2550 Advanced Spanish Composition**.

#### French, Spanish and Italian – Italian Studies

The department is proposing the modification of prerequisites for **ITLN 3050 Italian Through Literature** to make it consistent with other 3000 level courses in the department.

List A has been expanded to include **HIST 3XXX History of Medieval Italy, 568-1300 (D)** and **HIST 3YYY History of Medieval Italy, 1300-1500 (D)**.

#### German and Slavic Studies – German

The department is proposing the introduction of two courses: **GRMN 3AAA Special Topics in Comparative German and Slavic Studies (6)** and **GRMN 3AAB German Representations of War (3)** (taught in German); and a modification to **GRMN 3390 German Representations of War** (taught in English) to restrict holding it with GRMN 3AAB.

#### German and Slavic Studies – Slavic Studies

The department is proposing the deletion of two courses: **RUSN 3930 Advanced Russian (6)** and **RUSN 3940 Advanced Russian 2 (3)**; the introduction of four courses: **SLAV 3AAA Special Topics in Comparative German and Slavic Studies (6)**, **RUSN 3AAA Advanced Russian 1 (3)**, **RUSN 3AAB Advanced Russian 2 (3)**, and **RUSN 3AAC Special Topics in Russian (3)**. Modification of prerequisites for **RUSN 3580 Russian Poetry** reflect these course introductions.

In the Russian program notes, the listing of language courses is being modified to add **RUSN 3AAA Advanced Russian 1 (3)**, **RUSN 3AAB Advanced Russian 2 (3)**, **RUSN 3AAC Special Topics in Russian (3)** and to delete **RUSN 3930 Advanced Russian (6)**. **SLAV 3AAA Special Topics in Comparative German and Slavic Studies (6)** is being added to the list of literature courses in both the Russian program notes and in the Ukrainian program notes.

#### Global Political Economy

In the General Major Program, the Political Studies entry is being modified to reflect new requirements: (6 credit hours from) **POLS 1500 Introduction to Politics**, **POLS 1WAA Global Political Issues**, **POLS 1XAA Political Ideas and Ideologies**, **POLS 1YAA Law, Politics, and Power in Canada**, **POLS 1ZAA Democracy and Development**; **POLS 2040 Introduction to International Relations**. The Sociology entry has been modified to reflect new requirements: **SOC 1200 Introduction to Sociology**; **SOC 3470 Political Sociology** or **SOC 3690 Sociology of the Developing Societies** or **SOC 3838 Ecology and Society** or **SOC 3840 Community and Social Reconstruction** or **SOC 3870 Social Inequality**; **SOC 3810 Sociological Perspectives on Gender and Sexuality** or **Anthropology ANTH 3320 Women in Cross-Cultural Perspective**.

In the Advanced Major Program, the Political Studies entry is being modified to reflect new requirements: (6 credit hours from) **POLS 1500 Introduction to Politics**, **POLS 1WAA Global Political Issues**, **POLS 1XAA Political Ideas and Ideologies**, **POLS 1YAA Law**,

Politics, and Power in Canada, POLS 1ZAA Democracy and Development; POLS 3220 Globalization and the World Economy; POLS 3250 International Political Economy or POLS 3840 Approaches to the Study of International Relations. The Sociology entry has been modified to reflect new requirements: SOC 1200 Introduction to Sociology; SOC 2290 Introduction to Research Methods; SOC 3470 Political Sociology or SOC 3690 Sociology of the Developing Societies or SOC 3838 Ecology and Society or SOC 3840 Community and Social Reconstruction or SOC 3870 Social Inequality; SOC 3810 Sociological Perspectives on Gender and Sexuality or Anthropology ANTH 3320 Women in Cross-Cultural Perspective.

The list of courses for Global Political Economy has been modified to include: POLS 1WAA Global Political Issues, POLS 1XAA Political Ideas and Ideologies, POLS 1YAA Law, Politics, and Power in Canada, POLS 1ZAA Democracy and Development, SOC 3840 Community and Social Reconstruction ; and to delete POLS 2041 Introduction au relations internationales, and SOC 3871 Inégalités sociales.

The list of suggested electives has been modified to include: LABR 1XXX Working for a Living, LABR 2XXX Political Economy of Labour, LABR 2XXY Workers, Employers and the State, POLS 3WBB Politics of the European Union, POLS 3XAA Introduction to Marxism; the following courses have been deleted: HIST 2671 Histoire du capitalisme, POLS 2041 Introduction au relations internationales, POLS 2071 Introduction au système gouvernemental canadien, SOC 3871 Inégalités sociales; and LABR 1270 Introduction to the Political Economy of Labour is marked as no long offered.

### History

**African (R)** is being added as a new area of study.

### Icelandic

The department is proposing the deletion of seven courses: ICEL 1220 Introduction to Icelandic Culture and Civilization (6), ICEL 1240 Modern Icelandic 1 (6), ICEL 2240 Modern Icelandic 2 (6), ICEL 2250 Icelandic Folktales (3), ICEL 2300 Icelandic-Canadian Literature (6), ICEL 3230 Modern Icelandic 3 (6), and ICEL 3460 Laura Goodman Salverson (3); the introduction of 12 courses: ICEL 1AAA Introduction to Icelandic (6), ICEL 1AAB Conversational Icelandic (3), ICEL 1AAC Introduction to Swedish (3), ICEL 1AAF Introduction to Contemporary Culture in Iceland (3), ICEL 1AAG Introduction to Culture in Medieval Iceland (3), ICEL 2AAA Intermediate Icelandic 1 (6), ICEL 2AAB Icelandic Folktales in a European Context (3), ICEL 2AAD Special Topics (3), ICEL 2AAH Poetics of Immigration in Icelandic-Canadian Literature (3), ICEL 2AAI Translation of Cultures in Icelandic-Canadian Literature (3), ICEL 3AAA Intermediate Icelandic 2 (6), and ICEL 3AAB Romanticism in Icelandic Literature (3); and one course modification of ICEL 2230 Contemporary Icelandic-Canadian Literature to update the course description.

The following program changes are proposed to incorporate the course changes: In the Major Program (Option 1), Years 1 and 2 are being modified to reflect the following new requirements: Year 1: ICEL 1AAA Introduction to Icelandic, Year 2: ICEL 2AAA Intermediate Icelandic. In the Major Program (Option 2), Year 1 is being modified to reflect the following requirement ICEL 2AAA Intermediate Icelandic. In the Minor Program (Option 1), Years 1 and 2 are being modified to reflect the following new requirements: Year 1: ICEL

**1AAA Introduction to Icelandic**, Year 2: **ICEL 2AAA Intermediate Icelandic**. In the Minor Program (Option 2), Year 1 is being modified to reflect the following new requirements: [**ICEL 1AAF Introduction to Contemporary Culture in Icelandic** and **ICEL 1AAG Introduction to Culture in Medieval Iceland**], or **ICEL 1AAA Introduction to Icelandic**. In the Honours Single or Double, Years 1 and 2 are being modified to reflect the following new requirements: Year 1: **ICEL 2AAA Introduction to Icelandic**, Year 2: **ICEL 2220 Modern Icelandic Literature in Translation**, **ICEL 2AAH Poetics of Immigration in Icelandic-Canadian Literature**, **ICEL 2AAI Translation of Cultures in Icelandic-Canadian Literature**. Program note 1 is being modified to read "Prior to standing" in ICEL 1AAA will be determined by means of a written test administered by the department at time of registration.'

### Labour Studies

The department is proposing the deletion of two courses: **LABR 1270 Introduction to the Political Economy of Labour (3)**, and **LABR 3300 Workers, Employers and the State (3)**; the introduction of three courses: **LABR 1XXX Working for a Living (3)**, **LABR 2XXX Political Economy of Labour (3)**, and **LABR 2XXY Workers, Employers and the State (3)**; and the modification of the following eleven courses to reflect the addition of LABR 1XXX to the list of prerequisites: **LABR 2420 Economics of the Labour Process and Labour Relations**, **LABR 2440 Economic and Social Measurement**, **LABR 2450 Labour and Technology**, **LABR 3010 Labour Law**, **LABR 3030 Labour and the Bargaining Process**, **LABR 3060 Workplace Health and Safety**, **LABR 3070 Labour Relations and Occupational Health and Safety Law**, **LABR 3130 Employment Legislation and the Protection of Workers**, **LABR 3140 Pensions and Benefits**, and **LABR 3150 Labour Adjustment**, **LABR 3510 Industrial Relations**.

In the General Major, Advanced Major and Minor Programs, Year 1 of the programs is being modified to reflect the new program requirements: **LABR 1XXX Working for a Living** and **LABR 1290 Introduction to the Canadian Labour Movement**. The list of electives has been expanded to include: **HIST 3AAA History of Winnipeg from 1870-2000**, **POLS 3XAA Introduction to Marxism**, **POLS 3YAA Canadian Public Management**, **POLS 3YBB Administrative Theory in the Public Sector** and **POLS 4YDD Comparative Public Administration**. **POLS 4570 Public Organizational Management** has been marked for deletion.

### Latin American Studies

The list of courses for Latin American Studies has been expanded to include **ANTH 2690 Peoples and Cultures of Contemporary Latin America**.

### Native Studies

The department is proposing the following two course modifications to make the prerequisites consistent with other Native Studies courses: **NATV 2300 Cree Literature**, and **NATV 2310 Ojibway Literature**.

In the Native Studies Aboriginal Governance Stream Advanced Major, the Political Studies requirements are being modified by the addition of **POLS 2070 Introduction to Canadian Government** and the deletion of **POLS 2570 Introduction to Public Administration** which has been deleted by the Political Studies Department.

## Philosophy

The department is proposing the modification of **PHIL 3580 Kant** to indicate that it may fulfill the "Group 4-Honours" requirement.

## Political Studies

The department is proposing the deletion of the following ten courses: **POLS 2430 The European Union in World Politics (3)**, **POLS 2530 Elements of Foreign Policy (6)**, **POLS 2570 Introduction to Public Administration (6)**, **POLS 2710 Introduction to Political Analysis (6)**, **POLS 2810 Empirical Political Theory (6)**, **POLS 2920 Government, Politics and Society in Ukraine (6)**, **POLS 4570 Public Organizational Management (6)**, **POLS 4810 Seminar in Marxist-Leninist and Contemporary Marxist Political Theory (6)**, **POLS 4830 The Politics of International Regions (6)**, **POLS 4910 Scope and Methods in Political Science (6)**; and the introduction of the following thirteen courses: **POLS 1WAA Global Political Issues (3)**, **POLS 1XAA Political Ideas and Ideologies (3)**, **POLS 1YAA Law, Politics, and Power in Canada (3)**, **POLS 1ZAA Democracy and Development (3)**, **POLS 3WBB Politics of the European Union (3)**, **POLS 3WCC Middle East Politics (3)**, **POLS 3XAA Introduction to Marxism (3)**, **POLS 3YAA Canadian Public Management (3)**, **POLS 3YBB Administrative Theory in the Public Sector (3)**, **POLS 3ZCC Politics, Government and Society in Ukraine (3)**, **POLS 4YCC Managing Modern Government (3)**, **POLS 4YDD Comparative Public Administration (3)**, and **POLS 4YGG Indigenous Governance (3)**.

In the Honours Single and Honours Double program notes, the political theory courses listing in program note 1 are being modified by the addition of **POLS 3XAA Introduction to Marxism** and the deletion of **POLS 2710 Introduction to Political Analysis** and **POLS 4810 Seminar in Marxist-Leninist and Contemporary Marxist Political Theory**.

## Psychology

The department is proposing the introduction of one course: **PSYC 3XXX Thinking Critically About Psychological Research (3)**; and the modification of **PSYC 4520 Honours Research Seminar** to add PSYC 3XXX to the list of prerequisites.

In the Honours Single Program, Year 3 is being modified to reflect the new program requirements: 3 credit hours from **PSYC 3340 Design and Analysis for Psychological Experiments** or **PSYC 3630 Psychological Measurement and Assessment**; **PSYC 3XXX Thinking Critically About Psychological Research**; 15 credit hours in Psychology courses (3 hours each of at least two different lettered menu courses not taken in Year 2); 9 credit hours in ancillary options. In the Honours Double Program, Year 3 is being modified to reflect the new program requirements: 3 credit hours from **PSYC 3340 Design and Analysis for Psychological Experiments** or **PSYC 3630 Psychological Measurement and Assessment**; **PSYC 3XXX Thinking Critically About Psychological Research**; 6 credit hours in Psychology courses (3 hours each of at least two different lettered menu courses not taken in Year 2); 12 credit hours in other Honours field.

## Religion

The department is proposing the deletion of three courses: **RLGN 2630 Problems of Faith and Reason (6)**, **RLGN 2830 Buddhism (6)**, and **RLGN 2860 Hinduism (6)**; and the introduction of six courses: **RLGN 2XXA Introduction to Buddhism (3)**, **RLGN 2XXB Problems of Faith and Reason (3)**, **RLGN 2XXC Religion and Dance (3)**, **RLGN 2XXD Introduction to Hinduism (3)**, **RLGN 3XXA Indian Buddhism (3)**, and **RLGN 3XXB Guru and Disciple (3)**.

## Sociology

The department is proposing the introduction of one new course: **SOC 3AAA Institutional Responses to Violence in Family and Intimate Relationships (3)**.

## Ukrainian Canadian Heritage Studies

The program is proposing the modification of List C to include **POLS 3ZCC Politics, Government and Society in Ukraine** and to mark the deletion of **POLS 2920 Government, Politics and Society in Ukraine** to be deleted by the Political Studies department.

## Women's Studies

The department is proposing the deletion of one course: **WOMN 3590 Thinking Through the Body (3)**; and the introduction of two courses: **WOMN 2XYZ Sex, Gender, Space and Place (3)**, and **WOMN 3ABC Masculinities (3)**.

The department proposes to expand List A to include: **SOC 2460 The Family**, **SOC 2461 La famille**, and **SOC 3350 Feminism and Sociological Theory**.

## Collège universitaire de Saint-Boniface –Français

The Collège is proposing the deletion of one course: **FRAN 2521 Atelier de théâtre (3)**; and the introduction of one course **FRAN 2XYZ Atelier de théâtre (6)**.

Program List A (Théâtre), year 2, is being modified to delete **FRAN 2521 Atelier de théâtre (3)** and replace it with **FRAN 2XYZ Atelier de théâtre (6)**. Program List D (Linguistique and analyse du discours) is being modified to add **TRAD 4XYZ Analyse du discours I (3)** and **TRAD 4YYZ Analyse du discours II (3)** and to delete **TRAD 4021 Analyse du discours (6)**. These program modifications reflect course changes made.

## Collège universitaire de Saint-Boniface –Traduction

The Collège is proposing the deletion of one course: **TRAD 4021 Analyse du discours (6)**; the introduction of five courses: **TRAD 4AAA Traduction biomédicale et pharmaceutique (3)**, **TRAD 4AAB Théories de la traduction (3)**, **TRAD 4AAC Traduction militaire (3)**, **TRAD 4XYZ Analyse du discours I (3)**, **TRAD 4YYZ Analyse du discours II (3)**; and the modification of two courses: **TRAD 1188 Introduction à l'espagnol (6)** and **TRAD 1261 Espagnol intermédiaire (3)** to include SPAN 1XXX in the list of prerequisites.

Bloc B is being modified to delete **TRAD 4021 Analyse du discours (6)** and replace it with **TRAD 4XYZ Analyse du discours I (3)** and **TRAD 4YYZ Analyse du discours II (3)**.

#### Collège universitaire de Saint-Boniface –Honours Double Program – Français- Traduction.

The Collège is proposing the introduction of an Honours Double Program – Français-Traduction. No new resources would be required.

#### History of Art General Major

The Program is proposing to modify requirements to delete **FAAH 3210 Introduction to the Theory and Criticism of Art (3)** and add an additional 3 credit hours from List A or List B.

#### Mathematics Advanced Major Program

To reflect course changes made by the Mathematics department, **MATH 2200 Sets and Real Numbers (3)** will be deleted from the program and be replaced with **MATH 2XX2 Fundamentals of Mathematical Analysis (3)**.

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

The Faculty proposes the expansion of minors available that can be used to satisfy the Faculty of Arts requirement of a minor to include: Environmental Studies and Physical Geography.

### 5. Faculty of Dentistry

#### Dental Diagnostic and Surgical Science

The proposed modifications of the following 15 courses remove references to contact time in the course descriptions: **DDSS 1020 Periodontology**, **DDSS 1140 Radiology**, **DDSS 2010 Oral Pathology**, **DDSS 2020 Pain and Anxiety Control**, **DDSS 2120 Periodontology**, **DDSS 2180 Radiology 2**, **DDSS 3030 Medicine**, **DDSS 3200 Oral Diagnosis and Radiology**, **DDSS 3210 Oral and Maxillofacial Surgery**, **DDSS 3220 Periodontology**, **DDSS 3230 Pain and Anxiety Control**, **DDSS 4080 Psychiatry**, **DDSS 4130 Hospital Dentistry**, **DDSS 4200 Oral Diagnosis and Radiology**, **DDSS 4210 Oral and Maxillofacial Surgery**.

#### Dentistry

The proposed modifications of the following four courses remove references to contact time in the course descriptions: **DENT 1010 Early Clinical Experience**, **DENT 2430 Introduction to Comprehensive Care**, **DENT 4020 Interdisciplinary Case Studies**, **DENT 4030 General Practice Clinic**.

#### Oral Biology

The proposed modifications of the following 11 courses remove references to contact time in the course descriptions: **ORLB 1050 Cell and Tissue Biology**, **ORLB 1060 Head, Neck and Nervous System, Part I**, **ORLB 1070 Head, Neck and Nervous System, Part II**, **ORLB 1080 Human Growth and Development**, **ORLB 1090 Development, Structure and Function of Oral Tissues**, **ORLB 2070 Structure and Function of Major Organ Systems**, **ORLB 2090**

**Cariology and Plaque Associated Diseases, ORLB 2100 Pathology and Microbiology I, ORLB 2150 Nutrition in Dentistry, ORLB 3020 Pathology and Microbiology, ORLB 3060 Pharmacology and Dental Therapeutics.**

#### Preventative Dental Science

The proposed modifications of the following 10 courses remove references to contact time in the course descriptions: **PDSD 1020 Orthodontics 1, PDSD 2020 Orthodontics 2, PDSD 2070 Pediatric Dentistry 1, PDSD 2130 Dental Public Health, PDSD 3040 Orthodontics 3, PDSD 3050 Pediatric Dentistry 2, PDSD 3140 Dental Public Health and Preventive Dental Science, PDSD 4050 Pediatric Dentistry 3, PDSD 4060 Orthodontics 4, PDSD 4080 Community Dentistry Externship.**

#### Restorative Dentistry

The proposed modifications of the following 17 courses remove references to contact time in the course descriptions: **RSTD 1070 Dental Materials 1, RSTD 1100 Operative Dentistry 1, RSTD 1110 Dental Anatomy and Occlusion, RSTD 1120 Introduction to Dentistry, RSTD 2020 Dental Materials 2, RSTD 2050 Operative Dentistry 2, RSTD 2060 Endodontology 1, RSTD 2140 Fixed Partial Denture Prosthodontics 1, RSTD 2220 Removable Partial Denture Prosthodontics, RSTD 4160 Dental Jurisprudence, RSTD 2230 Complete Denture Prosthodontics, RSTD 3020 Operative Dentistry, RSTD 3040 Fixed Partial Denture Prosthodontics 2, RSTD 3050 Endodontology 2, RSTD 3090 Complete and Removable Partial Denture Prosthesis, RSTD 4060 Endodontic Seminars, RSTD 4170 Practice Management.**

#### School of Dental Hygiene

The proposed modifications of the following 17 courses remove references to contact time in the course descriptions: **HYGN 1232 Oral and Dental Anatomy, HYGN 1238 Dental Hygiene Clinical Practice I, HYGN 1242 Dental Hygiene Theory and Practice II, HYGN 1262 Dental Radiology, HYGN 1270 Biology of the Head and Neck, HYGN 1280 Microbiology and Infectious Diseases, HYGN 1292 Dental Hygiene Preclinical Restorative Techniques, HYGN 1320 Dental Materials, HYGN 1352 Community Health 1, HYGN 1360 Periodontology 1, HYGN 2280 Pharmacology, HYGN 2300 Pathology, HYGN 2340 Periodontology II, HYGN 2350 Biology of Oral Tissues, HYGN 2362 Community Health II, HYGN 2370 Nutrition in Dentistry, HYGN 2380 Pain Management.**

#### 6. Faculty of Education

The faculty is proposing the modification of **EDUA 5680 Promoting Responsible Behaviour in Educational Settings** to remove the prerequisite requirement.

The faculty is proposing that students who successfully complete course 98592 Special Topics through the Certificate in Teaching English as a Second Language (CTESL) Program receive transfer credit for the parallel courses offered under EDUB 1840 Recent Developments in CTL 1 (eg. TESL Literacy, Adult ESL, Canadian Language Benchmarks).



7. **Faculty of Engineering**

**Biosystems Engineering**

The department is proposing the introduction of two courses: **BIOE 4416 Topics in Biosystems Engineering (3)**, and **BIOE 4640 Bioengineering Applications in Medicine (4)**; and the modification of two courses: **BIOE 4240 Graduation Project** from pass/fail to letter grading, and **BIOE 4610 Design of Assistive Technologies** to include a more appropriate prerequisite.

**Civil Engineering**

The department is proposing the deletion of one course **CIVL 2760 Introduction to Environmental Engineering (5)**.

**Electrical and Computer Engineering**

The department is proposing the introduction of one course: **ECE 3540 Advanced Circuit Analysis and Design (4)**; and the modification of seven courses: **ECE 2130 Electric Fields**, **ECE 2160 Electronics 2E**, **ECE 2262 Electric Circuits**, **ECE 3600 Physical Electronics**, **ECE 3730 Electric Power and Machines**, **ECE 3780 Signal Processing 1**, and **ECE 3790 Engineering Algorithms** to change the prerequisites in light of deleted courses.

It is proposed that **MATH 3120** and **MATH 3110** be deleted from the Electrical and Computer Engineering program and be replaced by **MATH 3140 Engineering Mathematical Analysis 4**.

The department is proposing the replacement of one Electrical Engineering technical elective in Year 4 with an elective from a list of approved Science courses.

**Mechanical Engineering**

The department is proposing the introduction of five courses: **MECH 2010 Computer Aided Graphics for Mechanical and Manufacturing Engineering (2)**, **MECH 4310 Contemporary Topics in Mechanical Engineering 1 (4)**, **MECH 4320 Contemporary Topics in Mechanical Engineering 2 (3)**, **MECH 4330 Contemporary Topics in Manufacturing Engineering 1 (4)**, and **MECH 4340 Contemporary Topics in Manufacturing Engineering 2 (3)**.

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

**Geological Sciences**

The department is proposing the deletion of four courses: **GEOL 1350 The Evolving Earth (3)**, **GEOL 1360 Environmental Earth Science (3)**, **GEOL 1370 The Earth in Space (3)**, and **GEOL 1440 Introduction to the Dynamic Earth (3)**; the introduction of three courses: **GEOL 1400 Time-Trekker's Travelog: Our Evolving Earth (3)**, **GEOL 1410 Natural Disasters and Global Change (3)**, and **GEOL 1420 Exploring the Planets (3)**; and one course modification: **GEOL 2570 Energy and Mineral Resources (3)** to change the prerequisite.

Proposed changes to entry requirements will include a minimum grade in the required course **GEOL 1340 The Dynamic Earth** and three credit hours (recommended for entry but not required for entry) from **GEOL 1400 Time-Trekker's Travelog: Our Evolving Earth**, **GEOL 1410 Natural Disasters and Global Change**, or **GEOL 1420 Exploring the Planets**.

#### Environment and Geography

The department is proposing the deletion of three courses: **GEOG 3500 A Geography of Europe (6)**, **GEOG 3600 Geography of Ukraine (3)**, and **GEOG 4610 Techniques in Historical Geography (3)**; the introduction of the following courses: **ENVR 2010 Field Topics in Environment (1.5)**, **ENVR 2020 Extended Field Topics in Environment (3)**, **ENVR 3750 Green Building and Planning (3)**, **ENVR/GEOG 3850 Sustainable Manitoba (3)**, **ENVR/GEOG 4050 Ecosystem Management (3)**, and **ENVR/GEOG 4060 Biogeography**; and the modification of six courses: **GEOG 2250 Introduction to Geographic Information Systems (3)**, **ENVR 2350 Technical Communication Skills in the Environmental Sectors (3)**, **ENVR 3980 Coop Work Term 1 (0)**, **ENVR 3990 Coop Work Term 2 (0)**, **ENVR 4980 Coop Work Term 3 (0)** to make changes to prerequisites and restrictions, and **GEOG 4390 Global Climate Change (3)** to have the course description more accurately reflect the course content and teaching methods.

The department is proposing the renumbering of **ENVR 3300 Methods in Ecotoxicology** to **ENVR 3180 Methods in Ecotoxicology**. There are no changes to course descriptions or prerequisites.

The department is proposing an Undergraduate Option in Aging for students in B.Env.Sc., B.Env.St. and B.A. in Geography which would require 18 credit hours including the following courses: **KIN/NURS 2610 Health and Physical Aspects of Aging (3)**, **HMEC/REC/SWRK Social Aspects of Aging (3)**, **GEOG 4710 Geography of the Elderly and Aging (3)**, **GEOG 4290 Geographies of Health and Health Care (3)**, plus an additional 6 credit hours of other aging related courses offered through the Faculties of Arts, Human Ecology, Nursing, Kinesiology & Recreation Management, Social Work.

#### 9. Faculty of Human Ecology

The faculty is proposing two course introductions: **HNSC 4XXX Research Project in Human Nutritional Sciences (6)**, and **HMEC 3XXX Developmental Health (3)**; and eight course modifications: **TXSC 2500 Preparation for Product Development (1)**, **TXSC 2630 Pattern Development in an Industrial Environment (3)**, **TXSC 3500 Textiles for the Healthcare Sector (3)**, **TXSC 3640 Pattern Development in a Computer Aided Design Environment (3)**, **TXSC 3650 Production of Textile Products (3)** to revise the prerequisites, and **TXSC 4500 Advanced Textiles for the Healthcare Sector (3)**, **TXSC 4610 Integrative Project (6)**, and **HEAL 2600 Integration of Health Determinants of Individuals (3)** to revise prerequisites to accommodate Aurora functionality.

The list of electives for the Department of Family Social Sciences are being modified to include the following: for the *Child and Adolescent Development Option*, **NURS 2170 Prevention of Illness** and **NURS 4240 Health Promotion in the Community**; for the *Family Economic Health Option*, **FMLY 3240 Families in Later Years**, **FMLY 3610 Developmental Health of Children and Youth**, **FMLY 3900 Families, Housing and Community: A Policy Perspective**, **FMLY 4900 Families, Housing and Community: An Action Perspective** and **NURS 4240 Health Promotion in the Community**; and for the *Family Violence and Conflict*

*Resolution Option*, **NURS 3300 Women and Health** and **NURS 3400 Men's Health: Concerns, Issues and Myths**. The Interdisciplinary Health Degree Programs (Health Sciences and Health Studies) are being modified to add **SOC 2490 Sociology of Health and Illness** to the set of linking courses and that 2 out of 3 (6 credit hours out of 9) of the following courses be required: **PHIL 2740 Ethics in Biomedicine**, **SOC 2490 Sociology of Health and Illness**, **GEOG 4290 Geographies of Health & Health Care**.

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

Supply Chain Management

The School is proposing the modification of **SCM 4250 Beyond Business: Advanced Issues in SCM** to indicate a 'may not be held with' restriction.

Collège universitaire de Saint-Boniface

The Collège is proposing the deletion of two courses: **GMGT 3521 Culture et organisation (3)** and **INTB 4501 Cultures du monde (3)** and the introduction of two courses: **INTB 3XX1 Gestion interculturelle (3)**, **OPM 4XX1 Gestion de projets (3)**, and three courses for the cooperative education option: **IDM 2981 Stage coopératif 1 (0)**, **IDM 3981 Stage coopératif 2 (0)** and **IDM 4981 Stage coopératif 3 (0)**.

The Collège is proposing to restructure the Bachelor of Business Administration including the requirement of ECON 1200 or 1201 (ECON 1211 plus ECON 1221 will no longer be accepted) which is line with the Asper School of Business. A new course INTB 3XX1 Gestion interculturelle will replace the requirement for INTB 4501 Cultures du monde and GMGT 3521 Culture et organization. HRIR 4531 Gestion du changement will be added to the list of core courses for the degree. OPM 4XX1 Gestion de projets will be added to the list of restricted electives for the Major: Management of Organizations and International Business and as an option for other majors. The Collège is proposing to introduce a cooperative education option for the Bachelor of Business Administration students.

11. **Faculty of Music**

The faculty is proposing the deletion of two courses: **MUSC 3810 Electroacoustic Music 1 (3)** and **MUSC 4810 Electroacoustic Music 2 (3)**; the introduction of three courses: **MUSC 3650 Electracoustic Music (3)**, **MUSC 4650 Interactive Computer Music (3)**, and **MUSC 4660 Computer Assisted Composition (3)**; and the modification of three courses: **MUSC 3140 Music for Children 2 (6)**, **MUSC 4360 Wind Repertoire (3)**, and **MUSC 4370 Wind Conducting Techniques (3)** to reflect appropriate prerequisites.

12. **Faculty of Nursing**

The faculty is proposing the following three course modifications: **NURS 4420 Health Promotion in the Community**, **NURS 4430 Clinical Nursing Practice 6**, and **NURS 4440 Prevention of Illness** to update concepts and terminology.

### 13. Faculty of Science

#### Biological Sciences

The department is proposing the introduction of: **ZOOL 3001 Biologie évolutive (3)**; and the modification of **BIOL 1020 Biology 1: Principles and Themes** and **BIOL 1021 Biologie 1: Thèmes et Principes** to add the prerequisite of 40S Biology or BIOL 1000 Biology: Foundations of Life (3) or BIOL 1001 Biologie: Les fondements de la vie (3).

#### Chemistry

The department is proposing the modification of the following three courses: **CHEM 4600 Advanced Chemical Techniques**, **CHEM 4700 Advanced Biochemistry Laboratory**, and **CHEM 4710 Research Project in Chemistry or Biochemistry** to clearly specify lab components.

#### Computer Science

The department is proposing the modification of the following six courses: **COMP 1260 Introductory Computer Usage 1**, **COMP 1270 Introductory Computer Usage 2**, **COMP 2150 Object Orientation**, **COMP 3010 Distributed Computing**, **COMP 3090 Digital Logic 2**, and **COMP 4580 Computer Security** to clarify whether the course has a laboratory component and/or revise prerequisite requirements.

#### Mathematics

The department is proposing the deletion of two courses: **MATH 2200 Sets and Real Numbers (3)**, and **MATH 3110 Mathematical Methods and Complex Analysis (4)**; the introduction of two courses: **MATH 2202 Fundamentals of Mathematical Analysis (3)**, and **MATH 3140 Engineering Mathematical Analysis 4 (3)**; and the modification of the following seven courses: **MATH 2352 Advanced Linear Algebra**, **MATH 2400 Applied Graph Theory**, **MATH 2750 Intermediate Calculus**, **MATH 3120 Applied Discrete Mathematics**, **MATH 3710 Complex Analysis 1**, **MATH 3800 Ordinary Differential Equations with Applications 2**, and **MATH 4700 Applied Functional Analysis** to make changes to prerequisites or restrictions.

The Applied Math 4-year Major with Management Sciences Option program is to be deleted.

The following programs will be modified to replace the former **MATH 2200 Sets and Real Numbers (3)** with the introduced **MATH 2202 Fundamentals of Mathematical Analysis (3)**: Mathematics Honours and Honours Double programs, Mathematics Four Year Major, Mathematics-Actuarial Mathematics Joint Program, Mathematics-Physics and Astronomy Joint Program, Mathematics-Economics Joint Honours Program, Statistics-Economics Joint Program, and Statistics-Mathematics Joint Program.

#### Microbiology

The department is proposing the introduction of one course: **MBIO 3XY0 Applied Biological Safety (3)**; and modifications to the following three courses: **MBIO 1220 Essentials of Microbiology** regarding prerequisites, **MBIO 2100 General Microbiology A** regarding grades

for prerequisites, and **MBIO 4530 Project in Microbiology** to clarify that there is a laboratory requirement.

### Physics

The department is proposing the deletion of one course: **PHYS 4670 Physics Laboratory (6)**; the introduction of four courses: **PHYS 4XYZ Physics Laboratory A (3)**, **PHYS 4ABC Physics Laboratory B (3)**, **PHYS 4DEF Honours Thesis – Proposal and Preparation (3)**, and **PHYS 4GHI Honours Thesis – Project and Presentation (3)**; and the modification of one course: **PHYS 2270 Physical Topics for Biologists A** to change prerequisites.

With the course deletion and additions above, Option B of the Physics and Astronomy Honours degree will be modified to delete **PHYS 4670 Physics Laboratory (6)** and replace it with [**PHYS 4XYZ Physics Laboratory A (3)** or **PHYS 4DEF Honours Thesis – Proposal and Preparation (3)**] and [**PHYS 4ABC Physics Laboratory B (3)** or **PHYS 4GHI Honours Thesis – Project and Presentation (3)**].

### Statistics

The Statistics-Mathematics Joint Program and the Statistics-Economics Joint Program will be modified to replace the former **MATH 2200 Sets and Real Numbers** with the introduced **MATH 2202 Fundamentals of Mathematical Analysis**.

### Psychology Program

The Four Year Honours Program is being revised to add **PSYC 3XXX Thinking Critically about Psychological Research** to the Year 3 program and deleting 3 credit hours of options.

### Interdisciplinary Program in Forensic Science

One course is proposed for introduction: **FORS 2XXX Introductory Forensic Science (3)**.

### Chemistry-Physics Joint Program

The Departments of Chemistry and Physics and Astronomy propose the introduction of a Joint Honours Program in Chemistry and Physics. This program will be comprised entirely of existing and currently offered courses and is therefore a re-packaging of existing offerings. The full COPSE proposal form was submitted.

## 14. Faculty of Social Work

The faculty is proposing the modification of one course: **SWRK 2090 Human Behaviour and Social Work Practice** to ensure the course description reflects the course content.

## **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 Architecture**  
**Faculty of Arts**  
**Faculty of Dentistry**  
**Faculty of Education**  
**Faculty of Engineering**  
**Clayton H. Riddell Faculty of Environment, Earth, and Resources**  
**Faculty of Human Ecology**  
**I.H. Asper School of Business Faculty of Management**  
**Faculty of Music**  
**Faculty of Nursing**  
**Faculty of Science**  
**Faculty of Social Work**

Respectfully submitted,

Professor J. Welsh, Chair  
Senate Committee on Curriculum and Course Changes

/mb

## **Faculty of Agricultural and Food Sciences**

### **Plant Science**

Course deletion:

PLNT 4540 Plant Genomics -3

Course introduction:

PLNT 4XXX Introductory Plant Genomics Cr.Hrs. 3 (Lab required) +3

An introduction to plant genomics including mapping and sequencing genomes, gene expression and transcriptome, comparative, functional and integrative genomics; also covers gene constructs and plant transformation and a wide ranging consideration of transgenic crop issues. Theory and practice of genomics will be examined. A laboratory will provide hands-on experience with several genomic techniques. Not to be held with the former PLNT 4540. Prerequisites: [PLNT 2520 or BOTN 2460] and PLNT 2530 or consent of instructor.

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

### **Faculty of Architecture**

Course deletions:

079.403 Process and Form Cr.Hrs. 3

-3

079.901 Cr.Hrs. 3

-3

**NET CHANGE IN CREDIT HOURS:**

**-6 HOURS**

### **Faculty of Arts**

#### **Anthropology**

Course modification:

ANTH 2450 Ethnology of China (B) Cr. Hrs. 3

(formerly 076.245) Issues in the anthropological study of contemporary China will be introduced in comparative perspective. The emphasis will be on issues such as economic development, changing gender relations, population growth and migration, and the politics of culture. Prerequisite: [a grade of "C" or better in one of: ANTH 1220 (076.122) or ANTH 1221 (076.122) or ANTH 1520 (076.152) or the former 076.109 or the former 076.120] or written consent of instructor.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

## Canadian Studies

The list of approved courses is being modified to include the addition of the following courses: POLS 1YAA, POLS 3YAA, POLS 4YGG; and marked to note the deletion of: POLS 2570, ICEL 2300, and ICEL 3460.

### Canadian Studies

2007-2008 Undergraduate Calendar, pages 112-113

#### - Revisions to List of Approved Courses in Canadian Studies

#### Added material

~~Deleted material~~

#### List of Approved Courses in Canadian Studies

In the following list of approved courses the designation (H) indicates an Honours course. Courses designated (CUSB) are offered in French at Collège universitaire de Saint-Boniface.

\* In the list below indicates courses no longer offered.

<b>Faculty of Arts</b>				ECON 2360	Women in the Canadian Economy	6
Canadian Studies				ECON 3300	Canadian Economic History	6
CDN 1130	Introduction to Canadian Studies	6		ECON 3301	Histoire économique du Canada (CUSB)	6
CDN 3730	Canadian Identity: An Interdisciplinary Approach	3		ECON 3510	Industrial Relations (Cross-listed with Labour Studies LABR 3510)	6
CDN 4410	Seminar in Canadian Studies (H)	6		ECON 3690	Economic Issues of Health Policy	3
Anthropology				ECON 3720	Urban and Regional Economics and Policies	3
ANTH 2040	Native North America: A Sociocultural Survey (B)	3		018.352*	Introductory Regional Economics	3
ANTH 2041	Les Amérindiens de l'Amérique du nord: une étude socioculturelle (B) (CUSB)	3		018.353*	Intermediate Regional Economics	3
ANTH 2640	Manitoba Prehistory	3		018.357*	Health Economics	3
ANTH 3460	Native North American Ethnology (B)	3		018.360*	Workshop in the Economy of Canada	6
ANTH 3461	Ethnologie des Amérindiens de l'Amérique du Nord (B) (CUSB)	3		English		
ANTH 3500	Peoples of the Arctic (B)	3		ENGL 2270	Canadian Literature	6
ANTH 3501	Peuples de l'Arctique (B) (CUSB)	3		ENGL 3270	Studies in Canadian Literature	3
ANTH 3550	Canadian Subcultures	3		ENGL 3271	Studies in Canadian Literature	3
ANTH 3551	Sous-cultures canadiennes (CUSB)	3		004.275*	Canadian Literature (H)	6
ANTH 3910	Archaeological Field Training (D,E)	6		004.288*	Canadian Literature to 1967	3
Economics				004.289*	Canadian Literature after 1967	3
ECON 1210	Introduction to Canadian Economic Issues and Policies	3		004.377*	Canadian Poetry	6
ECON 1211	Introduction aux politiques et aux problèmes économiques canadiens (CUSB)	3		004.378*	The Canadian Novel	6
ECON 2280	Social Welfare and Human Resources	6		004.388*	Studies in Canadian Literature	6
ECON 2310	Canadian Economic Problems	6		Film Studies		
ECON 2311	Les problèmes économiques du Canada (CUSB)	6		FILM 2430	The Canadian Film	3
ECON 2350	Community Economic Development	3		Français (CUSB)		
				FRAN 2831	L'individu et le pays (CUSB)	3
				FRAN 2881	Civilisation canadienne-française (CUSB)	3



FRAN 3531	Le théâtre québécois (CUSB)	3	HIST 3781	Études choisies en histoire du Canada 1 (CUSB)	3
FRAN 3541	Le théâtre de l'Ouest (CUSB)	3	HIST 3790	Studies in Canadian History 2 (C)	3
FRAN 3831	L'époque de la contestation (CUSB)	3	HIST 3791	Études choisies en histoire du Canada 2 (CUSB)	3
FRAN 3841	La révolution tranquille et le roman (CUSB)	3	HIST 3910	The Ukrainians in Canada (C)	3
FRAN 3851	Le théâtre de l'Ouest: poésie, nouvelles (CUSB)	3	HIST 4060	Gender History in Canada (C) (H)	6
FRAN 3861	Le théâtre de l'Ouest: romans (CUSB)	3	HIST 4280	Topics in the Cultural History of Canada (C)	6
FRAN 4831	Littérature de l'Acadie et des Cajuns (CUSB)	3	HIST 4340	Introduction to Archival Science (C)	6
French, Spanish and Italian			HIST 4390	The History of White Attitudes and Policies towards Native Peoples in North America (C) (H)	6
FREN 2700	Poésie et théâtre canadiens-français (B)	3	HIST 4700	Canada, 1896 to the Present (C) (H)	6
FREN 3140	Roman canadien-français (B)	3	HIST 4720	History of Manitoba (C) (H)	6
FREN 3850	Civilisation canadienne-française (C)	3	HIST 4890	Canadian Social History (C) (H)	6
044.247*	French-Canadian Literature In Translation	6	HIST 4900	The Hudson's Bay Company and British North America (C) (H)	6
044.348*	Littérature canadienne-française (H)	3	HIST 4950	History of Quebec (C) (H)	6
044.353*	Littérature canadienne-française (B)	3	011.133*	History of Canada from 1534 (C)	6
History			011.133F*	Histoire du Canada (CUSB)	6
HIST 1390	History of Colonial Canada: 1500-1885 (C)	3	011.254*	North American Indian (A,C,S)	6
HIST 1400	History of the Canadian Nation Since 1867 (C)	3	011.324*	Protestantism and the Development of the Canadian Community, 1749-1970 (C,S)	6
HIST 1440	History of Canada (C)	6	011.438*	Intellectual History of Canada (C) (H)	3
HIST 1441	Histoire du Canada (CUSB)	6	011.449*	The New Canada, 1867-96 (S) (H)	6
HIST 2191	Histoire économique et sociale canadienne du XIXe siècle (CUSB)	6	Icelandic		
HIST 2280	Aboriginal History of Canada (C)	6	ICEL 2230	Contemporary Icelandic-Canadian Literature	3
HIST 2950	Early Canada: from the Earliest Settlement to 1867 (C)	6	ICEL 2300*	Icelandic-Canadian Literature (H)	6
HIST 2951	Les origines du Canada: depuis la première colonie jusqu'en 1867 (CUSB)	6	ICEL 3460*	Laura Goodman Salverson	3
HIST 2960	The New Dominion: 1867 to 1921 (C)	6	ICEL 4440	The Icelanders in Canada (H)	3
HIST 2961	Le nouveau Dominion: de 1867 à 1921 (CUSB)	6	012.445*	Stephan G. Stephansson (H)	3
HIST 2970	Modern Canada: 1921 to the Present (C)	6	Labour Studies		
HIST 2971	Le Canada moderne: de 1921 à nos jours (CUSB)	6	LABR 3510	Industrial Relations (Cross-listed with Economics ECON 3510)	6
HIST 3050	Canada since 1945 (C)	6	Native Studies		
HIST 3220	The History of Canadian-American Relations (A,C)	6	NATV 1200	The Native Peoples of Canada	6
HIST 3250	Canada and the World, 1867 to the Present (C)	6	NATV 1220	The Native Peoples of Canada, Part 1	3
HIST 3690	History of Northern Canada (C)	6	NATV 1240	The Native Peoples of Canada, Part 2	3
HIST 3721	Histoire du Manitoba (C) (CUSB)	6	NATV 1250	Introductory Cree 1	3
HIST 3730	A History of Western Canada (C)	6	NATV 1260	Introductory Cree 2	3
HIST 3780	Studies in Canadian History 1 (C)	3			

NATV 1270	Introductory Ojibway 1	3	032.090*	Introductory Cree	6
NATV 1280	Introductory Ojibway 2	3	032.091*	Introductory Ojibway	6
NATV 1290	Introductory Inuktitut	3	032.121*	Intermediate Ojibway	6
NATV 2020	The Métis of Canada	3	032.130*	Intermediate Cree	6
NATV 2040	Native Peoples of the Northern Plains	3	032.205*	Coastal Indians of Canada	3
NATV 2060	The Native Peoples of the Eastern Woodlands	3	032.220*	Native Societies and the Political Process	3
NATV 2070	The Native Peoples of the Subarctic	3	032.321*	The Native Identity	6
NATV 2080	Inuit Society and Culture	3	032.323*	Native Peoples and the Law 2	3
NATV 2220	Native Societies and the Political Process	3	032.325*	Native Peoples and the Law 1	6
NATV 2250	Intermediate Cree	6	032.373*	Art of the North American Native Peoples	3
NATV 2270	Intermediate Ojibway	6		Political Studies	
NATV 2300	Cree Literature	3	<u>POLS 1YAA</u>	<u>Law, Politics and Power in Canada</u>	<u>3</u>
NATV 2320	Structure of the Cree Language	3	POLS 2070	Introduction to Canadian Government	6
NATV 2410	Canadian Native Literature	3	POLS 2071	Introduction au système gouvernemental Canadien	6
NATV 2420	Inuit Literature in Translation	3	POLS 2561	Questions d'actualité en politique Canadienne (CUSB)	6
NATV 2450	Images of Indians in North American Society	3			
NATV 3000	Selected Topics	3	POLS 2570*	Introduction to Public Administration	6
NATV 3240	Native Medicine and Health	3	POLS 2571	Initiation à l'administration publique (CUSB)	6
NATV 3270	The Métis Nation	3	<u>POLS 3YAA</u>	<u>Canadian Public Management</u>	<u>3</u>
NATV 3280	Aboriginal Peoples and the Canadian Justice System	3	POLS 3100	Gender and Politics in Canada	3
NATV 3300	Native Language Planning and Development	3	POLS 3170	The Canadian Charter of Rights and Freedoms	3
NATV 3310	Canadian Law and Aboriginal Peoples	3	POLS 3520	Canadian Foreign and Defence Policy	6
NATV 3320	Aboriginal Organizations	3	POLS 3561	Politique étrangère Canadienne (CUSB)	6
NATV 3340	Circumpolar Cultures and Lifestyles	3	POLS 3670	Canadian Political Parties	3
NATV 3370	Political Development in the North	3	POLS 3860	Canadian Federalism	3
NATV 3380	Cultural Constructions of Gender In Canadian Aboriginal Societies	3	POLS 3960	Canadian Politics	6
			<u>POLS 4YCG</u>	<u>Indigenous Governance</u>	<u>3</u>
NATV 4200	First Nations Government	3	POLS 4180	Provincial Politics in Canada	3
NATV 4210	Seminar in Contemporary and Historical Métis Issues	3	POLS 4190	Manitoba Politics and Government	3
NATV 4220	Environment, Economy and Aboriginal People	3	POLS 4660	The State in the Economy (H)	6
NATV 4230	Traditional Knowledge and Native Studies Research	3	POLS 4860	The Canadian Policy Process (H)	6
NATV 4240	Arctic Lifestyles	3	019.156*	Introduction to Canadian Government	6
NATV 4250	Topics on Aboriginal Identities	3	019.156F*	Introduction au système gouvernemental Canadienne (CUSB)	6
NATV 4260	Sacred Lands and Sacred Spaces of Indigenous Peoples	3	019.206*	Urban and Local Politics	6
NATV 4280	Missionaries, Colonialism and Aboriginal Peoples	3	019.256*	Issues of Canadian Politics	6

019.266*	Human Rights and Civil Liberties	6	054.376*	Canadian Art 2	3
019.286*	Canadian Political Parties	6	Clayton H. Riddell Faculty of Environment, Earth, and Resources		
019.356*	Canadian Foreign Policy	6	Geography		
019.366*	Quebec and the Canadian Political System (H)	3	GEOG 2450	The Making of the Prairie Landscape (A)	6
019.368*	Canadian Defense Policy	3	GEOG 2570	Geography of Canada (A)	3
019.476*	Manitoba Politics and Voting Behaviour	6	GEOG 3431	Géographie du Canada (CUSB)	3
019.487*	Government and Public Sector Unionism (H)	6	GEOG 3480	Canadian Problems	3
Religion			GEOG 3481	Particularités de la géographie du Canada (CUSB)	3
RLGN 2410	Religion in Canada (C)	6	GEOG 3700	Canada: The Making of the Human Landscape (A)	6
RLGN 2411	Les religions au Canada (CUSB)	6	GEOG 3701	Canada: évolution de l'écoumène (CUSB)	6
RLGN 2590	Religion and Social Issues (C)	3	053.369*	Historical Geography of Indian Peoples in the Canadian Fur Trade	6
RLGN 2591	La religion et les problèmes sociaux (CUSB)	3	053.378*	Historical Geography of Canadian Indians (A)	6
020.272*	Dimensions of Religiosity in Contemporary Canadian Literature	6	053.470*	Historical Geography of the Ojibway Indians (H)	3
Slavic Studies					
UKRN 2420	Ukrainian Canadian Literature	3			
UKRN 2430	Ukrainian Canadian Folklore	3			
Sociology					
SOC 2320	Canadian Society and Culture	3			
SOC 2321	La société Canadienne et sa culture (CUSB)	3			
SOC 2370	Ethnic Relations	3			
SOC 2371	Rapports ethniques (CUSB)	3			
SOC 2531	Sociologie du Manitoba (CUSB)	6			
SOC 2610	Sociology of Criminal Justice and Corrections	3			
SOC 2620	The Sociology of Aging	3			
SOC 3470	Political Sociology	3			
SOC 3471	Sociologie politique (CUSB)	3			
SOC 3700	Sociology of Law	3			
Ukrainian Canadian Heritage Studies					
UCHS 3100	The Ukrainian Arts in Canada	3			
School of Art					
FAAH 3260	Canadian Art and Architecture to World War II	3			
FAAH 3270	Canadian Art Since World War II	3			
FAAH 3430	Inuit Art	3			
054.358*	Inuit Culture and Art	3			
054.375*	Canadian Art 1	3			

## Central and East European Studies

The Honours Double Program is being modified to replace the Year 3 requirement of "either RUSN 3930 or both UKRN 3950 and UKRN 3960" with "either both RUSN 3AAA and RUSN 3AAB, or both UKRN 3950 and UKRN 3960". Additionally, GEOG 3600 Geography of Ukraine, (deleted by the Geography Department) is being deleted from the Year 3 program where students have the option of 6 credit hours from a list of 2 courses. The Year 4 requirements are being modified to delete the requirement of POLS 4810.

List A is being expanded to include: FAAH 1030, FAAH 1040, FAAH 1050, and FAAH 1060.

List B is being expanded to include: GRMN 3AAA, GRMN 3AAB, SLAV 3AAA, POLS 3XAA, POLS 3ZCC, FAAH 4070 and FAAH 4080; and marked to note the deletion of: POLS 2920, POLS 4810, and GEOG 3600.

Central and East European Studies  
2007-2008 Undergraduate Calendar, page 115

- Revision to Honours Double Program
- Revision to "List A"
- Revision to "List B"

Added material

Deleted material

**8.5.2 Central and East European Studies, Program Code: 099S**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS DOUBLE<sup>1</sup></b>			
6 credit hours in language from courses numbered at the 1000 level <sup>2</sup> in Russian, German, Ukrainian, Polish, plus 18 credit hours from List A or List B	<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 RUSN 3930 or both UKRN 3950 and UKRN 3960<sup>3</sup></li> <li>• either both RUSN 3AAA and RUSN 3AAB, or both UKRN 3950 and UKRN 3960<sup>3</sup></li> <li>• 6 credit hours from the following, Geography: GEOG 3600; History: HIST 3030; Slavic Studies: UKRN 3670</li> <li>• minimum of 12 credit hours in other Honours field</li> </ul>	<ul style="list-style-type: none"> <li>• 12 credit hours from the following, Economics: ECON 4450; History: HIST 4300; Political Studies: POLS 4810</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.

**List A**

**Faculty of Arts**

**Economics**

ECON 1200 Principles of Economics 6

**History**

HIST 1200 An Introduction to the History of Western Civilization 6

or

HIST 1350 An Introduction to the History of Western Civilization to 1500 3

and

HIST 1360 An Introduction to the History of Western Civilization from 1500 3

**Political Studies**

POLS 1500 Introduction to Politics 6

or

POLS 2040 Introduction to International Relations 6

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

GEOG 1200 Introductory Geography 6

or

GEOG 1280 Introduction to Physical Geography and 3

GEOG 1290 Introduction to Human Geography 3

**School of Art**

FAAH 1030 Introduction to Art 1A 3

FAAH 1040 Introduction to Art 2A 3

FAAH 1050 Introduction to Art 1B 3

FAAH 1060 Introduction to Art 2B 3

## List B

### Faculty of Arts

#### Economics

ECON 2270 European Economic History 6

ECON 2510 The Economy of Ukraine 3

ECON 4450 Comparative Economic Systems 6

#### German and Slavic Studies

GRMN 2120 Introduction to German Culture 1 3

GRMN 2130 Introduction to German Culture 2 3

GRMN 3260 Representations of the Holocaust 3

GRMN 3270 Studies in Contemporary German Cinema 3

GRMN 3280 Sex, Gender and Cultural Politics in the German-Speaking World 3

GRMN 3290 History in Literature in German-Speaking Countries 3

GRMN 3390 German Representations of War 3

GRMN 3AAB German Representations of War 3

GRMN 3AAA Special Topics in Comparative German and Slavic Studies 3

RUSN 2280 Russian Culture 1 3

RUSN 2290 Russian Culture 2 3

RUSN 2740 Literature and Revolution 3

RUSN 2750 Contemporary Russian Literature and Film 3

RUSN 2770 Masterpieces of Russian Literature in Translation 3

SLAV 2240 East European Literature 1 3

SLAV 2250 East European Literature 2 3

SLAV 2260 Russia, Ukraine and Poland – Cultures in Dialogue 1 3

SLAV 2270 Russia, Ukraine and Poland – Cultures in Dialogue 2 3

SLAV 3AAA Special Topics in Comparative German and Slavic Studies 3

UKRN 2770 Ukrainian Culture 1 3

UKRN 2780 Ukrainian Culture 2 3

UKRN 3670 Contemporary Ukrainian Literature 3

UKRN 3850 Ukrainian Short Story 3

#### History

HIST 2490 History of Russia 6

HIST 2600 Introduction to Ukraine 3

HIST 2610 Making of Modern Ukraine 3

HIST 2660 History of the Soviet Union (E) 3

HIST 2661 Histoire de l'Union soviétique (E) 3

HIST 2840 A History of Russia to 1917 3

HIST 2841 Histoire de la Russie jusqu'en 1917 (E) 3

HIST 3030 Issues in Ukrainian History 3

HIST 3060 German and German Jewish History, 1780-1933 (E) 3

HIST 3180 Modern Russian: The Soviet Era and Beyond 6

HIST 4300 Problems in Modern Russian and Soviet History 6

011.255\* History of Ukraine 6

#### Political Studies

POLS 3XAA Introduction to Marxism 3

POLS 3ZCC Politics, Government and Society in Ukraine 3

POLS 2920\* Government, Politics and Society in Ukraine 6

POLS 4810\* Seminar in Marxist-Leninist and Contemporary Marxist Political Theory 6

#### Religion

RLGN 1350 The History of Eastern Christianity (A) 6

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

#### Geography

GEOG 3600\* Geography of Ukraine 3

#### School of Art

FAAH 3160 Topics in 20<sup>th</sup> Century Art (only when topic focuses on Central and Eastern Europe) 3

FAAH 3280 Early Byzantine Art and Architecture 3

FAAH 3290 Later Byzantine Art and Architecture 3

FAAH 4070 Seminar in Art History 1 (when its focus is on Central and Eastern Europe) 3

FAAH 4080 Seminar in Art History 2 (when its focus is on Central and Eastern Europe) 3

\*indicates course no longer offered.

## Economics

### Course modifications:

ECON 2420 Economics of the Labour Process and Labour Relations Cr.Hrs. 6  
(formerly 018.242) An examination of theoretical approaches to paid and unpaid work, the organization of labour processes, the production and reproduction of labour, and labour markets in Canada today, as well as possible alternatives. Students may not hold credit for ECON 2420 (018.242) and any of: LABR 2420 (153.242) or LABR 2XXX. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)].

ECON 2500 Labour and Technology Cr.Hrs. 3  
(formerly 018.250) Examination of the relationship between technological changes and levels of employment, organization/quality of work and division of labour. Same as Labour Studies LABR 2450 (153.245) Labour and Technology (3). Students may not hold credit for both ECON 2500 (018.250) and LABR 2450 (153.245). Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of department head.

ECON 3510 Industrial Relations Cr.Hrs. 6  
(formerly 018.351) A study of comparative employer-employee relationships in Canada and other selected countries as affected by market forces, social traditions, and government action. Students may not hold credit for both ECON 3510 (018.351) and LABR 3510 (153.351). Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)].

ECON 3720 Urban and Regional Economics and Policies Cr.Hrs. 3  
(formerly 018.372) An introduction to the study of the determinants of the spatial distribution of economic activity among urban centres and regions. Particular attention will be paid to such contemporary Canadian problems as regional disparities, urban and environmental decay, and urban renewal, and the policy issues involved in dealing with these problems. Prerequisite: [a grade of "C" or better in six credit hours of 1000 level Economics] or [a grade of "C" or better in LABR 1XXX (the former LABR 1270 or 153.127)].

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

**0 HOURS**

The Economics-Statistics Joint Honours Program is being modified to include STAT 2400 (3 credit hours) as a requirement; the MATH 2200 requirement is being removed and replaced by MATH 2XX2 (3); and the approved Economics elective requirement is being reduced from 6 to 3 credit hours. In the Year 4 program, the requirement for STAT 4630 (3 credit hours) is being deleted and the approved Economics elective requirement is increasing from 9 to 12 credit hours.

The Economics-Mathematics Joint Honours Program is being modified to delete MATH 2200 and replace it with MATH 2XX2 to reflect course changes made in the Mathematics Department.

Economics  
2007-2008 Undergraduate Calendar, page 121

- Revisions to Economics-Statistics Joint Honours Program (revised October 10, 2007)

Added material  
~~Deleted material~~

8.9.7 Economics-Statistics Joint Honours Program, Program Code 005E			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
JOINT HONOURS TOTAL: 120 CREDIT HOURS			
<ul style="list-style-type: none"><li>ECON 1200 (or ECON 1210 and ECON 1220); MATH 1300<sup>1</sup>; MATH 1500<sup>1,2</sup>; MATH 1700<sup>1,2</sup>; STAT 1000<sup>3</sup>; COMP1010<sup>3</sup></li><li>Plus 9 credit hours of electives which should include the required "W" course</li></ul>	<ul style="list-style-type: none"><li>ECON 2700, ECON 2800, <u>MATH 2XX2</u>, <u>MATH 2200</u>; MATH 2350, MATH 2750, STAT 2000, <u>STAT 2400</u></li><li>Plus <u>3-6</u>-credit hours of approved Economics electives<sup>4</sup></li></ul>	<ul style="list-style-type: none"><li>ECON 3700, ECON 3800, MATH 3740 or MATH 3760, STAT 3470, STAT 3480, STAT 3490, STAT 3500, STAT 3600</li><li>Plus 3 credit hours of approved Economics electives<sup>4</sup></li></ul>	<ul style="list-style-type: none"><li>ECON 4120, ECON 4130, STAT 4140, STAT 4520, STAT 4530, STAT 4580, <u>STAT 4630</u></li><li>Plus <u>12-9</u>-credit hours of approved Economics electives<sup>4</sup></li></ul>
30 HOURS	30 HOURS	30 HOURS	30 HOURS
NOTES:			
<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700.			
<sup>2</sup> The combination of MATH 1500 <sup>1</sup> and MATH 1700 <sup>1</sup> may be replaced by MATH 1690.			
<sup>3</sup> Some courses may be taken in a different year than indicated; STAT 1000, COMP1010, MATH 2600 and ECON 3180 (or STAT 2000) may be taken in Year 2.			
<sup>4</sup> Of the 18 credit hours of electives in Economics in Years 2, 3 and 4, no more than 6 credit hours may be at the 2000 level or below; ECON 2530 and ECON 3180 are recommended in Year 2 or 3. The normal prerequisite for ECON 3180 is ECON 3170, which will be waived for students in this program who have completed Year 1.			



- Revisions to the Economics-Mathematics Joint Honours Program

Added material

~~Deleted material~~

**8.9.5 Economics-Mathematics Joint Honours Program, Program Code: 136E**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>JOINT HONOURS TOTAL: 120 CREDIT HOURS</b>			
<ul style="list-style-type: none"> <li>ECON 1200 (or both ECON 1210 and ECON 1220); MATH 1300<sup>1</sup>; MATH 1500<sup>1,2</sup>; MATH 1700<sup>1,2</sup>; STAT 1000<sup>3</sup>; COMP1010<sup>3</sup></li> <li>Plus 9 credit hours of electives<sup>4</sup> which should include the required "Written English" course</li> </ul>	<ul style="list-style-type: none"> <li>ECON 2700, ECON 2800, MATH 2200, MATH 2XX2, MATH 2352, MATH 2750, MATH 2800</li> <li>Plus 6 credit hours of approved electives<sup>5</sup></li> </ul>	<ul style="list-style-type: none"> <li>ECON 3700; ECON 3800; ECON 3180<sup>3</sup> (or STAT 2000)<sup>3</sup>; MATH 2600<sup>3</sup>; MATH 3230; MATH 3300<sup>5</sup>; MATH 3400; MATH 3700 (or MATH 3710); MATH 3740 (or MATH 3760)</li> <li>Plus 24 credit hours of approved Economics courses<sup>4</sup></li> <li>Plus 6 credit hours of Mathematics courses at the 3000 or 4000 level, which must include at least one of MATH 3510, MATH 3600, MATH 3810, MATH 3820, or any Mathematics course at the 4000 level</li> </ul>	
30 HOURS	30 HOURS	60 HOURS	

**NOTES:**

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700.

<sup>2</sup> The combination of MATH 1500 (or MATH 1510 or MATH 1520 or MATH 1530) and MATH 1700 may be replaced by MATH 1690.

<sup>3</sup> Some courses may be taken in a different year than indicated; STAT 1000, COMP 1010, MATH 2600 and ECON 3180 (or STAT 2000) may be taken in Year 2. The normal prerequisite for ECON 3180 is ECON 3170, which will be waived for students in this program who have completed Year 1.

<sup>4</sup> Of the 24 credit hours in electives in Economics in Years 3 and 4, no more than 6 credit hours may be at the 2000 level or below (with the exception of ECON 2530) and at least 6 credit hours must be at the 4000 level.

<sup>5</sup> MATH 3300, plus 3 of the 6 unallocated credit hours in Mathematics in Years 3 and 4, may be replaced by MATH 3350.

<sup>6</sup> Students are encouraged to consider useful courses in Computer Science and Statistics as electives.

English

Course modifications:

ENGL 0930 English Composition Cr.Hrs. 3

(formerly 004.093) Designed to help students write better essays. Course focuses on effective expression; sentence, paragraph, and essay construction; and the writing process. A great deal of writing is required; instructors address the particular needs of individual students. Students may not enter English courses numbered above the 1000 level directly from this course. This course is not designed to teach English as a second language. This course does not satisfy the Humanities requirement.

ENGL 0940 Writing About Literature Cr.Hrs. 3

(formerly 004.094) Designed to supplement and to complement ENGL 0930 (004.093), the course may be taken by itself. The course focuses on writing about literature through the study of the short story and poetry. Students may not normally enter English courses numbered above the 1000 level directly from this course. This course is not designed to teach English as a second language. This course does not satisfy the Humanities requirement.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

## French, Spanish and Italian – French

### Course deletion:

FREN 1250 Français oral 1 Cr.Hrs. 6

-6

### Course introduction:

FREN 1XXX Français oral 1 Cr.Hrs. 3

+3

For students whose mother tongue is not French, and who wish to improve their understanding, fluency and correctness in spoken French. Regular attendance is obligatory. Direct access to FREN 2610. Not open to students from Français or Immersion high school programs. Students may not hold credit for both FREN 1XXX and the former FREN 1250 (044.125). Prerequisite: [French 40S or 40G, or the former French 300 or 301] or [a grade of "B" or better in FREN 1150 (044.115) or "C" or better in FREN 1200 (044.120)] or [a brief interview and written consent of department head].

### Course modifications:

FREN 1150 Introductory French Cr.Hrs. 6

(formerly 044.115) A study of the fundamental structures of French, with oral and written practise. For students with no prior knowledge of French, or who have studied French up to and including Senior 3 level of its equivalent. Students with Senior 4 French may not normally take the course. Not open to students who have previously obtained credit in FREN 1190 (044.119) or FREN 1200 (044.120) or FREN 1XXX or the former FREN 1250 (044.125). Not for credit in French Major or Minor.

FREN 2610 Français oral 2 (A) Cr.Hrs. 3

(formerly 044.261) Ce cours vise à l'amélioration de la compréhension du français parlé ainsi qu'au développement de la facilité et de la correction de l'expression orale. Une attention particulière sera vouée au développement du vocabulaire ainsi qu'à la maîtrise des structures grammaticales. Le cours n'a pas été conçu pour les étudiants qui sont déjà bilingues. Prerequisite: [a grade of "C" or better in FREN 1XXX or the former FREN 1250 (044.125)] or written consent of department head.

FREN 2620 Grammaire et lexique (A) Cr.Hrs. 3

(formerly 044.262) Révision intensive de la grammaire et enrichissement du vocabulaire. Prerequisite: [a grade of "C" or better in FREN 1190 (or 044.119) or FREN 1200 (or 044.120)], or written consent of department head.

FREN 3100 Littérature française du dix-huitième siècle (B) Cr.Hrs. 3

(formerly 044.310) Après une introduction portant sur le dix-huitième siècle en France, on étudiera quelques-uns des grands auteurs et dramaturges de ce siècle, tels Montesquieu, Voltaire, Prévost, Marivaux, Beaumarchais et Rousseau. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3120 Poésie française du vingtième siècle (B) Cr.Hrs. 3

(formerly 044.312) Ce cours offre une vue panoramique de l'évolution de la poésie française du vingtième siècle. Au programme seront des oeuvres d'Appollinaire, Breton, Ponge, Michaux, Jacottet, etc. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3140 Roman canadien-français (B) Cr.Hrs. 3

(formerly 044.314) Ce cours est destiné à initier l'étudiant(e) au roman canadien-français. Parmi les auteurs étudiés se trouveront Hubert Aquin, Marie-Claire Blais, Roch Carrier. Un accent particulier sera mis sur l'interprétation historique. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (or 044.261) may not be used as a prerequisite.

FREN 3160 Roman et nouvelle français du dix-neuvième siècle (B) Cr.Hrs. 3

(formerly 044.316) Étude des principaux romanciers romantiques, réalistes et naturalistes: un choix de Chateaubriand, Constant, Balzac, Sand, Flaubert, Zola, Maupassant. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3350 Français oral 3 (A) Cr.Hrs. 3

(formerly 044.335) Ce cours vise au perfectionnement de la facilité d'expression, de la correction et de la compréhension du français oral. Le professeur se servira de certains aspects de la culture canadienne-française, et dans une moindre mesure de la culture française, pour stimuler la conversation. Prerequisite: [a grade of "C" or better in FREN 2610 (044.261)] or written consent of department head.

FREN 3500 Littérature du 17e siècle (B) Cr.Hrs. 3

(formerly 044.350) Ce cours constitue une analyse d'ouvrages marquants tirés du domaine de la littérature française classique. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (or 044.261) may not be used as a prerequisite.

FREN 3810 Français commercial (A) Cr.Hrs. 3

(formerly 044.381) Étude intensive du français commercial. On aura recours à divers documents commerciaux. Les différences entre le vocabulaire commercial de l'Europe et celui du Canada seront prises en considération. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3850 Civilisation canadienne-française (A,B,C) Cr.Hrs. 3

(formerly 044.385) Aspects du développement de la culture du Canada français. Éléments de la vie politique, sociale et artistique des Québécois et des francophones hors Québec surtout au 20e siècle. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head.

FREN 3860 Études sur Beauvoir (B) Cr.Hrs. 3

(formerly 044.386) Le but de ce cours est d'étudier l'oeuvre et la pensée de Simone de Beauvoir dont l'importance dans les études féministes continue d'être très marquée. Un choix de textes sera effectué parmi ses essais philosophiques, ses romans et son autobiographie. Prerequisite: a grade of "C" or better in any 2000-level French course or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3870 Stylistique comparée 2 (A) Cr.Hrs. 3

(formerly 044.387) Étude approfondie des principes et techniques de la traduction accompagnée d'exercices et d'analyses de traductions d'un niveau élevé. Prerequisite: [a grade of "C" or better in FREN 2870 (or 044.287)] or written consent of department head.

FREN 3890 Français du travail et des loisirs (A) Cr.Hrs. 3  
(formerly 044.389) Initiation au vocabulaire spécialisée (éducation, gouvernement, etc.) et à la correspondance commerciale. Ce cours a pour but d'initier l'étudiant(e) au langage du monde des affaires, du commerce, de l'industrie et de la fonction publique. Prerequisite: [a grade of "C" or better in any 2000-level French course] or written consent of department head. FREN 2610 (044.261) may not be used as a prerequisite.

FREN 3910 Expression écrit 2 (A) Cr.Hrs. 3  
(formerly 044.391) Ce cours est une étude des techniques de composition libre à un niveau avancé. Il comportera notamment des exercices avec la phrase complexe et l'étude et la pratique d'un certain nombre de genres de français écrit. Prerequisite: [a grade of "C" or better in FREN 2910 (044.291)] or written consent of department head.

## NET CHANGE IN CREDIT HOURS:

**-3 HOURS**

The French Major and Minor Programs are being modified to delete the statement, "students with a grade of "B" or better in FREN 1250 who have taken and passed a special written test may also declare a Major/Minor as well as take any courses numbered at the 2000 level."

French, Spanish and Italian - French  
2007-2008 Undergraduate Calendar, page 125

### - Revision to Major and Minor Program Information

Added material  
~~Deleted material~~

#### 8.12.3 French

##### Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in FREN 1190 or FREN 1200. ~~Students with a grade of "B" or better in FREN 1250 who have taken and passed a special written test may also declare a Major as well as take any courses numbered at the 2000 level.~~ Only one of FREN 1190, FREN 1200, FREN 1XXX FREN 1250 may be used for credit in the 30 hour Major but all will be included in the degree. For students who have taken additional courses toward the major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

##### Minor Program

For entry to the Minor, the prerequisite is a grade of "C" or better in FREN 1190 or FREN 1200. ~~Students with a grade of "B" or better in FREN 1250 who take and pass a special written test may also declare a Minor as well as take 2000-level courses.~~ Only one of FREN 1190, FREN 1200, FREN 1XXX FREN 1250 may be used for credit in the 18 hour Minor but all will be included in the degree.

## French, Spanish and Italian – Spanish

### Course deletion:

SPAN 3710 Nineteenth-Century Spanish Poetry and Drama Cr.Hrs. 3

**-3**

### Course introductions:

SPAN 1XXX Introductory Spanish 2 Cr.Hrs. 3

**+3**

The second term of SPAN 1180 Introductory Spanish. This course is intended for students who already have 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 1XXX and any of: SPAN 1180 (044.118) or SPAN 1280 or TRAD 1181 (122.118). Not open to students who have previously obtained credit in SPAN 1260 (044.126) or SPAN 1270 (044.127) or SPAN 1290 or TRAD 1261 (122.126) or TRAD 1271 (122.127). Prerequisite: [Senior 4 Spanish] or written consent of instructor or department head.

SPAN 2XXX Contemporary Spanish Female Playwrights Cr.Hrs. 3 +3  
This course introduces students to the study of Spanish theater written by contemporary women writers. The course will explore how they use their work and the stage to denounce a contemporary Spanish society that needs to be reexamined. Analysis will underscore how these playwrights treat dis/similar subject matters: search for identity, gender, sexuality, relationships, patriarchal values, feminism, among others. The course will be taught in Spanish. All class readings and examinations are in Spanish. Prerequisite: [a grade of "C" or better in one of: SPAN 1260 (044.126) or SPAN 1270 (044.127) or SPAN 1280 or SPAN 1290 or TRAD 1261 (122.126) or TRAD 1271 (122.127)] or written consent of department head.

Course modifications:

SPAN 1180 Introductory Spanish Cr.Hrs. 6  
(formerly 044.118) 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 1XXX or SPAN 1280 or TRAD 1181 (122.118). Not open to students who have previously obtained credit in SPAN 1260 (044.126) or SPAN 1270 (044.127) or SPAN 1290 or TRAD 1261 (122.126) or TRAD 1271 (122.127).

SPAN 1260 Intermediate Spanish Language Review Cr.Hrs. 3  
(formerly 044.126) Intensive language review for students who have completed SPAN 1180 (044.118) (TRAD 1181 or 122.118) or SPAN 1XXX or who have been granted prerequisite standing in SPAN 1180 (044.118) (TRAD 1181 or 122.118). Language study and practice in the classroom and language laboratory. Not open to students with native oral fluency. Students may not hold credit for SPAN 1260 (044.126) and any of: SPAN 1280 or SPAN 1290 or TRAD 1261 (122.126). Prerequisite: [a grade of "C" or better in SPAN 1180 (044.118) (TRAD 1181 or 122.118) or SPAN 1XXX] or written consent of instructor or department head.

SPAN 1270 Spanish Oral 1 Cr.Hrs. 3  
(formerly 044.127) For students who do not have native oral fluency in Spanish and who wish to improve their understanding and correctness in spoken Spanish. Intensive oral practice in the classroom and language laboratory at the intermediate level discussing contemporary issues and topics relating to Hispanic current events, politics and culture. Not open to students with native oral fluency. Students may not hold credit for SPAN 1270 (044.127) and any of: SPAN 1280 or SPAN 1290 or TRAD 1271 (122.127). Prerequisite: [a grade of "C" or better in SPAN 1260 (044.126) (TRAD 1261 or 122.126)] or written consent of instructor or department head.

SPAN 1280 Spanish for Native Speakers Cr.Hrs. 3  
A survey of grammar and writing for people with an advanced level of oral Spanish. All the class exercises, readings, activities and examinations will be in Spanish. Students may not hold credit for SPAN 1280 and any of: SPAN 1180 (044.118) or SPAN 1XXX or SPAN 1260 (044.126) or SPAN

1270 (044.127) or SPAN 1290 or TRAD 1181 (122.118) or TRAD 1261 (122.126) or TRAD 1271 (122.127). Prerequisite: written consent of instructor or department head.

SPAN 1290 Accelerated Intermediate Spanish Cr.Hrs. 6

This is a one term accelerated course which combines the content of SPAN 1260 (044.126) and 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 1260 (044.126) or SPAN 1270 (044.127) or SPAN 1280 or TRAD 1261 (122.126) or TRAD 1271 (122.127). Prerequisite: [a grade of "C" or better in SPAN 1180 (044.118) (TRAD 1181 or 122.118) or SPAN 1XXX] or written consent of instructor or department head.

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

In the General Major and Advanced Major Programs (Option 2), Year 1 and 2 are being modified to reflect the following new requirements: Year 1: SPAN 1XXX, Year 2: SPAN 1260 and SPAN 1270, or SPAN 1290; and SPAN 2550; and 6 credit hours from Spanish courses numbered at the 2000 level.

In the Minor Program (Option 1), Year 3 is being modified to reflect the following new requirements: 3 credit hours from Spanish courses numbered at the 2000 level and SPAN 2550.

In the Minor Program (Option 2), Years 1 and 2 are being modified to reflect the following new requirements: Year 1: SPAN 1XXX, Year 2: SPAN 1260 and SPAN 1270, or SPAN 1290; and SPAN 2550.

In the Minor Program (Option 3), Year 2 is being modified to reflect the following new requirements: 3 credit hours from Spanish courses numbered at the 2000 level and SPAN 2550.

**Spanish**  
**2007-2008 Undergraduate Calendar, pages 126-127**

**- Revisions to General Major (Option 2), Advanced Major (Option 2), Minor (Options 1, 2, 3)**

Added material

~~Deleted material~~

**Major Program**

For entry to the Major, the prerequisite is a grade of "C" or better in SPAN 1180, or a grade of "C" or better in both SPAN 1XXX and SPAN 1260 and SPAN 1270 (or SPAN 1290), or a grade of "C" or better in both SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level. For students who have taken additional courses toward the major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

It is recommended that students who wish to Major in Spanish take the Introductory course in the Summer Session prior to entering the fall program, or take SPAN 1260 and SPAN 1270 (or SPAN 1290) in the Summer Session prior to their entry into the second year. This will allow for a wider variety of course selections in the final two years.

**Minor Program**

For entry to the Minor, the prerequisite is a grade of "C" or better in SPAN 1180, or a grade of "C" or better in both SPAN 1260 and SPAN 1270 (or SPAN 1290), or a grade of "C" or better in both SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level.

**Other**

Students entering the university with prior knowledge of Spanish may be allowed 'prerequisite standing' in course SPAN 1180 by the Spanish section of the department. Special permission is required to enter a higher numbered course.

All Spanish courses except SPAN 1180 are taught in Spanish.

With written permission of the department head, students registered on the Fort Garry campus may take courses in Spanish language and literature at Collège universitaire de Saint-Boniface.

For information regarding the Minor program in Latin American Studies, see Section 8.20.

**8.12.6 Spanish, Program Code: 0445**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
GENERAL MAJOR (OPTION 1) <sup>1</sup> TOTAL: 30 CREDIT HOURS			
SPAN 1180	SPAN 1260 and SPAN 1270, or SPAN 1290	<ul style="list-style-type: none"><li>• SPAN 2550</li><li>• 9 credit hours from Spanish courses numbered at the 2000 level</li><li>• 6 credit hours from Spanish courses numbered at the 3000 level</li></ul>	
GENERAL MAJOR (OPTION 2) <sup>1</sup> TOTAL: 30 CREDIT HOURS			
SPAN 1260 and SPAN 1270, or SPAN 1290	<ul style="list-style-type: none"><li>• <u>SPAN 1260 and SPAN 1270, or SPAN 1290</u></li><li>• SPAN 2550</li></ul>	12 credit hours from Spanish courses numbered at the 3000 level	
<u>SPAN 1XXX</u>	<ul style="list-style-type: none"><li>• 6-9 credit hours from Spanish courses numbered at the 2000 level</li></ul>		

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**GENERAL MAJOR (OPTION 3)<sup>2</sup> TOTAL: 30 CREDIT HOURS**

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SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level	<ul style="list-style-type: none"><li>• SPAN 2550</li><li>• 9 credit hours from Spanish courses numbered at the 2000 level</li></ul>	12 credit hours from Spanish courses numbered at the 3000 level
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**ADVANCED MAJOR (OPTION 1)<sup>1</sup> TOTAL: 48 CREDIT HOURS**

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SPAN 1180	SPAN 1260 and SPAN 1270, or SPAN 1290	<ul style="list-style-type: none"><li>• SPAN 2550</li><li>• 12 credit hours from Spanish courses numbered at the 2000 level</li><li>• 6 credit hours from Spanish courses numbered at the 3000 level</li></ul>	15 credit hours from Spanish courses numbered at the 3000 level
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**ADVANCED MAJOR (OPTION 2)<sup>1</sup> TOTAL: 48 CREDIT HOURS**

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SPAN 1260 and SPAN 1270, or SPAN 1290	<ul style="list-style-type: none"><li>• SPAN 1260 and SPAN 1270, or SPAN 1290</li><li>• SPAN 2550</li><li>• 6-9 credit hours from Spanish courses numbered at the 2000 level</li></ul>	<ul style="list-style-type: none"><li>• 6 credit hours from Spanish courses numbered at the 2000 level</li><li>• 9 credit hours from Spanish courses numbered at the 3000 level</li></ul>	15 credit hours from Spanish courses numbered at the 3000 level
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**ADVANCED MAJOR (OPTION 3)<sup>2</sup> TOTAL: 48 CREDIT HOURS**

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SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level	<ul style="list-style-type: none"><li>• SPAN 2550</li><li>• 9 credit hours from Spanish courses numbered at the 2000 level</li></ul>	<ul style="list-style-type: none"><li>• 6 credit hours from Spanish courses numbered at the 2000 level</li><li>• 9 credit hours from Spanish courses numbered at the 3000 level</li></ul>	15 credit hours from Spanish courses numbered at the 3000 level
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**MINOR (OPTION 1)<sup>1</sup> TOTAL: 18 CREDIT HOURS**

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SPAN 1180	SPAN 1260 and SPAN 1270	<ul style="list-style-type: none"><li>• 3 6-credit hours from Spanish courses numbered at the 2000 level</li><li>• SPAN 2550</li></ul>
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**MINOR (OPTION 2)<sup>1</sup> TOTAL: 18 CREDIT HOURS**

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SPAN 1260 and SPAN 1270, or SPAN 1290	<ul style="list-style-type: none"><li>• SPAN 1260 and SPAN 1270, or SPAN 1290</li><li>• 6 credit hours from Spanish courses numbered at the 2000 level</li><li>• SPAN 2550</li></ul>	6 credit hours from Spanish courses numbered at the 3000 level
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**MINOR (OPTION 3)<sup>2</sup> TOTAL: 18 CREDIT HOURS**

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SPAN 1280 and 3 credit hours from Spanish courses numbered at the 2000 level	<ul style="list-style-type: none"><li>• 3 6-credit hours from Spanish courses numbered at the 2000 level</li><li>• SPAN 2550</li></ul>	6 credit hours from Spanish courses numbered at the 3000 level
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**NOTES:**

<sup>1</sup> Options 1 and 2 are not open to students with native oral fluency in Spanish. Students with native oral fluency in Spanish are advised to follow Option 3.

<sup>2</sup> Option 3 is open to students with native oral fluency in Spanish. Such students may enter Spanish courses numbered at the 2000 level with a grade of "C" or better in SPAN 1280.

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## French, Spanish and Italian – Italian

Course modification:

ITLN 3050 Italian Through Literature Cr.Hrs. 3

Through the study of selected works and authors, students will gain a better understanding of Italy's history and culture. Prerequisite: [a grade of "C" or better in ITLN 2080 (044.208)] or [a grade of "C" or better in each of ITLN 2090 (044.209) and ITLN 2100 (044.210)] or written consent of department head.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

List A has been expanded to include HIST 3XXX and HIST 3YYY.



Italian Studies  
2007-2008 Undergraduate Calendar, page 128

- Revisions to List A

Added material  
~~Deleted material~~

<b>List A</b>			HIST 2360	Europe 1870 to the Present (E)	3
Faculty of Arts			HIST 2370	History of Europe since the French Revolution (E)	6
Italian			HIST 2900	Topics in Social History (G) (when taught as "Topic: 6 Italy")	6
ITLN 3050	Italian Through Literature	3	HIST 3120	Topics in History 2 (G) (when taught as "Topic: Italy")	3
ITLN 3060	Italian Through Film	3	HIST 3140	Medieval Italy (D)	6
ITLN 3760	Italian Translation Workshop	3	<del>HIST 3XXX</del>	<del>History of Medieval Italy, 568-1300 (D)</del>	<del>3</del>
ITLN 3770	Modern Italian Usage	3	<del>HIST 3YYY</del>	<del>History of Medieval Italy, 1300-1500 (D)</del>	<del>3</del>
Classics			HIST 3270	Roman Law in Medieval Europe (D)	3
CLAS 1280	Introduction to Ancient Roman Culture	3	HIST 3680	Europe, 1870-1945 (E)	6
CLAS 2160	Roman History: The Roman Republic, 753-30 BC	3	HIST 3682	Europe 1870-1918 (E)	3
CLAS 2170	Roman History: The Roman Empire, 30 BC-AD 337	3	HIST 3684	Europe 1918-1945 (E)	3
CLAS 2680	Roman Art and Archaeology	3	HIST 4530	Europe, 1870-1914 (E)	6
CLAS 3620	Latin Literature in Translation	3	School of Art		
003.261*	Roman History	6	FAAH 2060	Medieval to Early Renaissance Art and Architecture	3
LATN 1080	Introduction to the Reading of Latin 1	3	FAAH 2070	Renaissance to Baroque Art and Architecture	3
LATN 1090	Introduction to the Reading of Latin 2	3	FAAH 3130	Topics in Medieval Art and Architecture	3
LATN 1320	Intermediate Readings in Latin	3	FAAH 3140	Topics in Renaissance and Baroque Art and Architecture	3
LATN 2720	Selected Readings in Republican and Augustan Poetry	3	Faculty of Music		
LATN 2740	Selected Readings in Republican and Augustan Prose	3	MUSC 1070	Introduction to the History of Music	3
LATN 2780	History of the Latin Language	3	MUSC 1080	History of Music 2	
LATN 2800	Readings in Medieval or Renaissance Latin	3	MUSC 3100	Opera Repertoire	3
LATN 3740	Roman Comedy	3	*indicates course no longer offered.		
LATN 3760	Orations of Cicero	3			
LATN 3780	Roman Satire	3			
LATN 3800	Lyric and Elegiac Poetry of the Augustan Age	3			
LATN 3820	Virgil's Aeneid	3			
LATN 3840	Virgil's Eclogues and Georgics	3			
LATN 3860	The Roman Historians	3			
LATN 3880	Poetry of the Silver Age	3			
History					
HIST 2350	Europe 1789-1870 (E)	3			

## German and Slavic Studies – German

### Course introductions:

GRMN 3AAA Special Topics in Comparative German and Slavic Studies Cr.Hrs. 6 +6  
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 3AAA and SLAV 3AAA 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.

GRMN 3AAB German Representations of War Cr.Hrs. 3 +3  
Language of instruction: German. Focuses on representations of war, particularly World War II from a German and European perspective in fiction, historiography, film, photography, and memorial culture. Students may not hold credit for GRMN 3AAB and GRMN 3390. Prerequisite: [a grade of “C” or better in GRMN 2140] or written consent of department head.

### Course modification:

GRMN 3390 German Representations of War Cr.Hrs. 3  
Language of instruction: English. Focuses on representations of war, particularly World War II from a German and European perspective in fiction, historiography, film, photography, and memorial culture. Students may not hold credit for GRMN 3390 and GRMN 3AAB. Prerequisite: [a grade of “C” or better in a minimum of 30 credit hours of university level coursework] or written consent of department head.

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

## German and Slavic Studies – Slavic Studies

### Course deletions:

RUSN 3930 Advanced Russian Cr.Hrs. 6 -6  
RUSN 3940 Advanced Russian 2 Cr.Hrs. 3 -3

### Course introductions:

SLAV 3AAA Special Topics in Comparative German and Slavic Studies Cr.Hrs. 6 +6  
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 3AAA and GRMN 3AAA 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.

RUSN 3AAA Advanced Russian 1 Cr.Hrs. 3 +3  
Advanced composition, translation, reading and study of selected literary and other texts. Development of overall communication skills. Students may not hold credit for both RUSN 3AAA and

RUSN 3930 (052.393) or the former 052.380. Prerequisite: [a grade of "C" or better in RUSN 2810 (052.281) or RUSN 2820 (052.282) or the former 052.262] or written consent of the department head.

RUSN 3AAB Advanced Russian 2 Cr.Hrs. 3

+3

Continues RUSN 3AAA. Further work in advanced composition, translation, reading and study of selected literary and other texts. Development of overall communication skills. Students may not hold credit for RUSN 3AAB and the former RUSN 3930 (052.393) or the former RUSN 3940 (052.394) or the former 052.380. Prerequisite: [a grade of "C" or better in RUSN 3AAA] or written consent of department head.

RUSN 3AAC Special Topics in Russian Cr.Hrs. 3

+3

Language of instruction: Russian. Advanced study of the Russian language through reading and analysis of literary or/and non-fictional texts including academic writing. The content of this course will vary from year to year, depending on the needs and interests of instructors and students.

Prerequisite: [a grade of "C" or better in one of: RUSN 2810 (052.281) or RUSN 2820 (052.282) or the former RUSN 3930 (052.393) or the former RUSN 3940 (052.394) or RUSN 3AAA or RUSN 3AAB] or written consent of department head.

Course modification:

RUSN 3580 Russian Poetry Cr.Hrs. 3

(formerly 052.358) A study of major Russian poetry of the 19<sup>th</sup> and 20<sup>th</sup> centuries, including works by Pushkin, Lermontov, Tiutchev, Fet, Blok, Mayakovsky, Akhmatova, Esenin, Evtushenko, Vinokurov, Kazakova. Lectures and readings in Russian. Prerequisite: [a grade of "C" or better in one of: RUSN 3AAA or RUSN 3AAB or the former RUSN 3930 (052.393) or the former RUSN 3940 (052.394)] or written consent of department head.

**NET CHANGE IN CREDIT HOURS:**

**+6 HOURS**

In the Russian program notes, the listing of language courses is being modified by adding: RUSN 3AAA, RUSN 3AAB, RUSN 3AAC and by deleting: RUSN 3930. SLAV 3AAA is being added to the list of literature courses.

In the Ukrainian program notes, the listing of literature courses is being modified by adding: SLAV 3AAA.

- Revisions to Russian Program Notes
- Revisions to Ukrainian Program Notes

#### Added material

~~Deleted material~~

#### **8.14.6 Russian, Program Code: 052R**

##### 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: RUSN 1300, RUSN 1330, RUSN 2630, RUSN 2810, RUSN 2820, RUSN 3AAA, RUSN 3AAB, RUSN 3AAC, RUSN 3930.

The following courses count as literature courses: RUSN 2280, RUSN 2290, RUSN 2350, RUSN 2740, RUSN 2750, RUSN 2760, RUSN 2770, RUSN 3330, RUSN 3580, RUSN 3770, RUSN 3780, RUSN 3790, RUSN 3900, RUSN 3900, SLAV 2240, SLAV 2250, SLAV 2260, SLAV 2270, SLAV 3AAA, SLAV 3920.

#### **8.14.8 Ukrainian, Program Code: 052U**

##### 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 1270, UKRN 1310, UKRN 1320, UKRN 2260, UKRN 2720, UKRN 2730, UKRN 3700, UKRN 3950, UKRN 3960.

The following courses count as literature courses: UKRN 2420, UKRN 2430, UKRN 2510, UKRN 2520, UKRN 2590, UKRN 2710, UKRN 2770, UKRN 2780, UKRN 3440, UKRN 3670, UKRN 3840, UKRN 3850, UKRN 3880, UKRN 3910, UKRN 3970, SLAV 2240, SLAV 2250, SLAV 2260, SLAV 2270, SLAV 3AAA, SLAV 3920.

### Global Political Economy

In the General Major Program, the Political Studies entry is being modified to reflect new requirements: (6 credit hours from) POLS 1500, POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA; POLS 2040. The Sociology entry has been modified to reflect new requirements: SOC 1200; SOC 3470 or SOC 3690 or SOC 3838 or SOC 3840 or SOC 3870; SOC 3810 or Anthropology ANTH 3320.

In the Advanced Major Program, the Political Studies entry is being modified to reflect new requirements: (6 credit hours from) POLS 1500, POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA; POLS 3220; POLS 3250 or POLS 3840. The Sociology entry has been modified to reflect new requirements: SOC 1200; SOC 2290; SOC 3470 or SOC 3690 or SOC 3838 or SOC 3840 or SOC 3870; SOC 3810 or Anthropology ANTH 3320.

The list of courses for Global Political Economy has been modified to include: POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA, SOC 3840; and the deletion of POLS 2041, SOC 3871. POLS 2530 is being marked to note it is no longer offered.

The list of suggested electives has been modified to include: LABR 1XXX, LABR 2XXX, LABR 2XXY, POLS 3WBB, POLS 3XAA; the following courses have been deleted: HIST 2671, POLS 2041, POLS 2071, SOC 3871; and LABR 1270 and POLS 2530 are marked as no longer offered.

## Global Political Economy

2007-2008 Undergraduate Calendar, pages 132-133

- Revisions to General Major and Advanced Major Programs
- Revisions to the List of Courses for Global Political Economy
- Revisions to the List of Suggested Electives

### Added material

### Deleted material

#### 8.15.1 Program Information

The departments of Anthropology, Economics, History, Political Studies and Sociology collaborate in a Major and Advanced Major that explores change in social, economic, political and international relations that have re-shaped and continue to re-shape the world. The public and private sectors, as well as non-governmental agencies, must understand the global forces that affect their international relationships as well as those that affect their internal ability to respond to restructuring forces around them.

For entry to the Major, the prerequisite is a grade of "C" or better in any 12 credit hours from the following: ECON 1200 (or ECON 1210 and ECON 1220); SOC 1200; no more than 6 credit hours from POLS 1500, POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA; (no more than 6 credit hours from) HIST 1370, HIST 1380, HIST 1500, HIST 2380, HIST 2720.

For entry, continuation and graduation requirements for the General Degree, Advanced Degree and Honours Degree, see Section 4: Basic Faculty Regulations for the Three Programs Leading to a B.A.

**Note:** Students who declare and complete a major will not be required or allowed to complete a separate field for a minor for purposes of satisfying degree requirements.

#### 8.15.2 Global Political Economy, Program Code: 157

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
GENERAL MAJOR TOTAL: 60 CREDIT HOURS			
<ul style="list-style-type: none"> <li>• Anthropology: ANTH 2390; ANTH 3320 or Sociology SOC 3810</li> <li>• Economics: ECON 1200 or ECON 1210 and ECON 1220; ECON 2540; ECON 2550; ECON 2630 or ECON 3390</li> <li>• History: 12 credit hours from: HIST 1370, HIST 1380, HIST 1500, HIST 2380, HIST 2720</li> <li>• Political Studies: <u>6 credit hours from:</u> POLS 1500, <u>POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA;</u> POLS 2040 <u>or</u> POLS 2530</li> <li>• Sociology: SOC 1200; SOC 3470 or SOC 3690 or SOC 3838 <u>or</u> <u>SOC 3840</u> or SOC 3870; SOC 3810 or Anthropology ANTH 3320</li> </ul>			
ADVANCED MAJOR TOTAL: 78 CREDIT HOURS			
<ul style="list-style-type: none"> <li>• Anthropology: ANTH 2390; ANTH 3320 or Sociology SOC 3810; ANTH 3750</li> <li>• Economics: ECON 1200 or ECON 1210 and ECON 1220; ECON 2540; ECON 2550; ECON 2630 or ECON 3390</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: <u>6 credit hours from:</u> POLS 1500, <u>POLS 1WAA, POLS 1XAA, POLS 1YAA, POLS 1ZAA;</u> POLS 3220; POLS 3250 <u>or</u> <u>POLS 3840</u></li> <li>• Sociology: SOC 1200; SOC 2290; SOC 3470 <u>or</u> SOC 3690 or SOC 3838 <u>or</u> <u>SOC 3840</u> or SOC 3870; SOC 3810 or Anthropology ANTH 3320</li> </ul>			
List of Courses for Global Political Economy		ANTH 3750 Globalization and the World-System (B)	
For detailed program requirements see the program chart.		Economics	
		ECON 1200 Principles of Economics	
		or both	
For course descriptions, see the chapter entitled Course Descriptions in this Calendar.		ECON 1210 Introduction to Canadian Economic Issues and Policies	
Anthropology		and	
ANTH 2390 Social Organization in Cross-Cultural Perspective (B)		ECON 1220 Introduction to Global and Environmental Economic Is-	
ANTH 3320 Women in Cross-Cultural Perspective (B)			

sues and Policies			Anthropology		
ECON 2540	Political Economy 1: Production and Distribution	3	ANTH 1220	Cultural Anthropology (A)	3
ECON 2550	Political Economy 2: Economic Growth and Fluctuations in a Global Economic Environment	3	or		
ECON 2630	An Introduction to the World's Economies	6	ANTH 1520	Critical Cultural Anthropology (A)	3
ECON 3390	Development Economics	6	ANTH 2460	Peasantry in a Changing World (B)	3
Global Political Economy			ANTH 2510	Anthropology of Economic Systems (B)	3
GPE 2700	Perspectives on Global Political Economy	3	ANTH 2530	Anthropology of Political Systems (B)	3
GPE 4700	Studies in Global Political Economy	6	ANTH 2570	Urban Anthropology (B)	3
History			ANTH 3320	Women in Cross-Cultural Perspective (B)	3
HIST 1370	An Introduction to Modern World History: 1500-1800 (M)	3	ANTH 3380	Anthropology and Contemporary Social Issues (B)	3
HIST 1380	An Introduction to Modern World History: 1800 - Present (M)	3	076.244*	Peasant Society and Culture (B)	3
HIST 1500	An Introduction to Modern World History: 1500 - Present (M)	6	Asian Studies		
HIST 2380	The Twentieth-Century World (G,M)	6	ASIA 1420	Asian Civilizations to 1500 (Cross-listed with History HIST 1420)	3
HIST 2720	The World Since 1945 (G,M)	6	ASIA 1430	Asian Civilizations Since 1500 (Cross-listed with History HIST 1430)	3
Political Studies			ASIA 2070	South Asian Civilization	6
<u>POLS 1WAA</u>	<u>Global Political Issues</u>	<u>3</u>	150.211*	East Asian Civilization	6
<u>POLS 1XAA</u>	<u>Political Ideas and Ideologies</u>	<u>3</u>	Economics		
<u>POLS 1YAA</u>	<u>Law, Politics, and Power in Canada</u>	<u>3</u>	ECON 2420	Economics of the Labour Process and Labour Relations (Cross-listed with Labour Studies LABR 2420)	3
<u>POLS 1ZAA</u>	<u>Democracy and Development</u>	<u>3</u>	ECON 2490	Economic Accounting	3
POLS 1500	Introduction to Politics	6	ECON 2560	Corporations in the Global Economy	3
POLS 2040	Introduction to International Relations	6	ECON 2630	An Introduction to the World's Economies	6
<del>POLS 2041</del>	<del>Introduction aux relations internationales</del>	<del>6</del>	ECON 3390	Development Economics	6
POLS 2530*	Elements of Foreign Policy	6	ECON 3660	Economic Ideas and Social Institutions	6
POLS 3220	Globalization and the World Economy	3	ECON 3710	Sustainable Development: Issues and Policy	3
POLS 3250	International Political Economy	3	ECON 4510	Economy and State in a Modern Period: Western Europe and North America	6
019.383*	The Politics of International Economic Relations	6	History		
Sociology			HIST 2670	History of Capitalism (M)	3
SOC 1200	Introduction to Sociology	6	<del>HIST 2671</del>	<del>Histoire du capitalisme (M)</del>	<del>3</del>
SOC 2290	Introduction to Research Methods	6	HIST 2680	History of Socialism from the French Revolution to the Present (M)	3
SOC 3470	Political Sociology	3	HIST 2710	Women in History (G)	6
SOC 3690	Sociology of the Developing Societies	3	HIST 3580	Topics in Recent World History 1 (M)	3
SOC 3810	Sociological Perspectives on Gender and Sexuality	3	HIST 3590	Topics in Recent World History 2 (M)	3
SOC 3838	Ecology and Society	3	HIST 4010	Imperialism, Decolonization and Neo-Colonialism, 1700 to the Present (G,M)	6
<u>SOC 3840</u>	<u>Community and Social Reconstruction</u>	<u>3</u>	HIST 4320	Studies in World History since 1945 (G,M)	3
SOC 3870	Social Inequality	3	011.341*	The British Empire and Commonwealth Since 1815 (G)	6
<del>SOC 3871</del>	<del>Inégalités sociales</del>	<del>3</del>	Labour Studies		
List of Suggested Electives			*LABR 1270	Introduction to the Political Economy of Labour	3
Faculty of Arts			<u>LABR 1XXX</u>	<u>Working for a Living</u>	<u>3</u>

<del>LABR 2XXX</del>	<u>Political Economy of Labour</u>	<u>3</u>
<del>LABR 2XXY</del>	<u>Workers, Employers and the State</u>	<u>3</u>
LABR 2420	Economics of the Labour Process and Labour Relations (Cross-listed with Economics ECON 2420)	6
LABR 3090	Globalization and Labour	3
Political Studies		
POLS 2040	Introduction to International Relations	6
<del>POLS 2041</del>	<del>Introduction aux relations internationales</del>	<del>6</del>
POLS 2070	Introduction to Canadian Government	6
<del>POLS 2071</del>	<del>Introduction au système gouvernemental canadien</del>	<del>6</del>
POLS 2530*	Elements of Foreign Policy	6
<del>POLS 3WBB</del>	<u>Politics of the European Union</u>	<u>3</u>
<del>POLS 3XAA</del>	<u>Introduction to Marxism</u>	<u>3</u>
POLS 3200	International Security and Conflict Management	6
POLS 3880	Comparative Foreign Policy	3
POLS 4530	Regionalism in International Politics	3
POLS 4660	The State in the Economy	6
019.156*	Introduction to Canadian Government	6
019.273*	International Conflict Resolution	6
Sociology		
SOC 2480	Population Problems	3
SOC 3470	Political Sociology	3
SOC 3690	Sociology of the Developing Societies	3
SOC 3810	Sociological Perspectives on Gender and Sexuality	3
SOC 383B	Ecology and Society	3
SOC 3840	Community and Social Reconstruction	3
SOC 3870	Social Inequality	3
<del>SOC 3871</del>	<del>Inégalités sociales</del>	<del>3</del>
Clayton H. Riddell Faculty of Environment, Earth, and Resources		
Geography		
GEOG 1280	Introductory Human Geography	3
GEOG 2210	Economic Geography	6
GEOG 3590	Geography of Developing Countries	6
GEOG 3800	Geography of Transportation Development	3
GEOG 4640	Models in Urban Geography	3

\*indicates course no longer offered.

## History

A new area of study – “African (R)” is being added.

### History

2007-2008 Undergraduate Calendar, page 134

- Revision to History Areas of Study

### Added material

~~Deleted material~~

#### 8.16.2 Program Information

History courses are arranged into groups and areas of study as follows:

Groups:	Areas:
numbered at the 1000 level: Introductory	A: The Americas
numbered at the 2000 level: General	B: Asian
numbered at the 3000 level: Special	C: Canadian
numbered at the 4000 level: Honours	D: Ancient and Medieval
	E: European
	G: General
	M: Modern World
	R: <u>African</u>

## Icelandic

Course deletions:

ICEL 1220 Introduction to Icelandic Culture and Civilization Cr.Hrs. 6	-6
ICEL 1240 Modern Icelandic 1 Cr.Hrs. 6	-6
ICEL 2240 Modern Icelandic 2 Cr.Hrs. 6	-6
ICEL 2250 Icelandic Folktales Cr.Hrs. 3	-3
ICEL 2300 Icelandic-Canadian Literature Cr.Hrs. 6	-6
ICEL 3230 Modern Icelandic 3 Cr.Hrs. 6	-6
ICEL 3460 Laura Goodman Salverson Cr.Hrs. 3	-3

Course introductions:

ICEL 1AAA Introduction to Icelandic Cr.Hrs. 6 (Laboratory required) +6  
The course is intended for students with little or no previous knowledge of Icelandic. Emphasis will be placed on reading comprehension and conversation skills, and students will also learn the basic grammatical structure of Icelandic and how to write short compositions. Pronunciation is developed in weekly language laboratory exercises. Students may not hold credit for both ICEL 1AAA and the former ICEL 1240 (012.124).

ICEL 1AAB Conversational Icelandic Cr.Hrs. 3 +3  
This course is offered as part of the Summer Session course offerings. Intensive study of conversational Icelandic during a field trip to Iceland. Students will be trained in groups in a classroom setting before they try their language skills in authentic situations. The course is designed for beginners as well as intermediate students. Regular attendance is obligatory. Taught in English: Open to all students.



ICEL 1AAC Introduction to Swedish Cr.Hrs. 3 +3  
The course is intended for beginners. Emphasis will be placed on conversation skills and reading comprehension, and students will also learn the basic grammatical structures of the language and how to write short compositions. Pronunciation is developed in weekly language laboratory exercises. Open to all students.

ICEL 1AAF Introduction to Contemporary Culture in Iceland Cr.Hrs. 3 +3  
The aim of this course is to study and explore a selection of literature, music, and visual art, and cultural critique. Students will also get an opportunity to study and explore both global and local Icelandic cultural characteristics and the fusion of cultural influences in contemporary Iceland. Open to all students. Taught in English. Students may not hold credit for both ICEL 1AAF and the former ICEL 1220 (012.122).

ICEL 1AAG Introduction to Culture in Medieval Iceland Cr.Hrs. 3 +3  
The aim of this course is to study a selection of sagas, history fragments and mythological sources. Students will also get an opportunity to explore the way in which world-renowned modern poets and writers have been drawn to, and seriously seduced by, the culture of medieval Iceland. Open to all students. Taught in English. Students may not hold credit for both ICEL 1AAG and the former ICEL 1220 (012.122).

ICEL 2AAA Intermediate Icelandic 1 Cr.Hrs. 6 +6  
Emphasis on expanding the vocabulary. Students are trained to read texts with more complex grammatical structures by studying fictional as well as non-fictional texts. Conducted in Icelandic. Students may not hold credit for both ICEL 2AAA and the former ICEL 2240 (012.224). Prerequisite: [a grade of "C" or better in ICEL 1AAA or ICEL 1240 (012.124)] or written consent of instructor.

ICEL 2AAB Icelandic Folktales in a European Context Cr.Hrs. 3 +3  
Reading of Icelandic legends and fairy tales and how they compare with stories from Northern and Central Europe. For the analysis, students will be introduced to central concepts and approaches to the study of folktales. Open to all students. Taught in English. Students may not hold credit for both ICEL 2AAB and the former ICEL 2250 (012.225).

ICEL 2AAD Special Topics Cr.Hrs. 3 +3  
Topics dealing with Icelandic literature, culture or language. Course content will vary from year to year depending on interest and needs of students and staff.

ICEL 2AAH Poetics of Immigration in Icelandic-Canadian Literature Cr.Hrs. 3 +3  
A study of Icelandic-Canadian literature, focusing on the poetics of immigration in the writings of Icelandic settlers and the first generation of Icelandic-Canadians. As a special assignment, students will study the voice of the poet, philosopher, and social prophet Stephan G. Stephansson, and the universal references of his poetics. Taught in English. Open to all students. Students may not hold credit for both ICEL 2AAH and the former ICEL 2300 (012.230).

ICEL 2AAI Translation of Cultures in Icelandic-Canadian Literature Cr.Hrs. 3 +3  
A study of Icelandic-Canadian literature, focusing on the translation of cultures in the writings of modern and contemporary Icelandic-Canadian poets and writers. Students will read a selection of prose and poetry. They will also study ideas on the indispensable role of the translation of cultures in the context of world literature. Open to all students. Taught in English. Students may not hold credit for both ICEL 2AAI and the former ICEL 2300 (012.230).

ICEL 3AAA Intermediate Icelandic 2 Cr.Hrs. 6

+6

Reading of selected fictional and non-fictional texts. Translation exercises and composition followed by relevant review of grammar. A special focus is placed on syntax, word formation, and the use of idiomatic phrases. Conducted in Icelandic. Students may not hold credit for both ICEL 3AAA and the former ICEL 3230 (012.323). Prerequisite: [a grade of "C" or better in ICEL 2AAA or the former ICEL 2240 (012.224)] or written consent of instructor. Pre- or corequisite: [LING 1200 (126.120) or LING 1440 (126.144) or ENGL 2470 (004.247)] or written consent of instructor.

ICEL 3AAB Romanticism in Icelandic Literature Cr.Hrs. 3

+3

The aim of this course is to study the concept of Romanticism in Icelandic literature and the key players in the Romantic movement in nineteenth century Iceland. A selection of poems, prose texts, and fragments will be read carefully, in particular the writings of Jónas Hallgrímsson. Taught in English. Prerequisite: [a grade of "C" or better in a minimum of 30 credit hours of university level coursework] or written consent of department head.

Course modification:

ICEL 2230 Contemporary Icelandic-Canadian Literature Cr.Hrs. 3

An examination of contemporary Icelandic-Canadian literature in English, its individual characteristics and place within the broader field of Canadian literature.

**NET CHANGE IN CREDIT HOURS:**

**+9 HOURS**

In the Major Program (Option 1), Years 1 and 2 are being modified to reflect the following new requirements: Year 1: ICEL 1AAA, Year 2: ICEL 2AAA.

In the Major Program (Option 2), Year 1 is being modified to reflect the following requirement ICEL 2AAA.

In the Minor Program (Option 1), Years 1 and 2 are being modified to reflect the following new requirements: Year 1: ICEL 1AAA, Year 2: ICEL 2AAA.

In the Minor Program (Option 2), Year 1 is being modified to reflect the following new requirements: ICEL 1AAF and ICEL 1AAG, or ICEL 1AAA.

In the Honours Single or Double, Years 1 and 2 are being modified to reflect the following new requirements: Year 1: ICEL 2AAA, Year 2: ICEL 2220, ICEL 2AAH, ICEL 2AAI.

Program note 1 is being modified to read "Prior to standing" in ICEL 1AAA will be determined by means of a written test administered by the department at time of registration.'

Icelandic  
2007-2008 Undergraduate Calendar, pages 135-136

- Revision to Major and Minor (Options 1 and 2) and Honours Single or Double

Added material  
~~Deleted material~~

**Major Program**

For entry to the Major, the prerequisite is a grade of "C" or better in either ICEL 1AAA-ICEL-1240 or ICEL 2AAA-ICEL-2240. For students who have taken additional courses toward the major, then a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

**Minor Program**

For entry to the Minor, the prerequisite is a grade of "C" or better in both ICEL 1AAF and ICEL 1AAG, ICEL-1220 or ICEL 1AAA, ICEL-1240 or ICEL 2AAA ICEL-2240.

**Honours Program**

The Honours Program is not currently offered.

For information on reciprocal recognition of credit for Scandinavian/Icelandic courses given by the University of Alberta and the University of Manitoba, see the department.

**6.17.3 Icelandic, Department Code: 012**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
MAJOR (OPTION 1) TOTAL: 30 CREDIT HOURS			
ICEL 1AAA-ICEL-1240 <sup>1</sup>	ICEL 2AAA-ICEL-2240	18 credit hours in Icelandic courses numbered at the 2000, 3000, or 4000 level	
MAJOR (OPTION 2) TOTAL: 30 CREDIT HOURS			
ICEL 2AAA-ICEL-2240	24 credit hours in Icelandic courses numbered at the 2000, 3000, or 4000 level		
MINOR (OPTION 1) TOTAL: 18 CREDIT HOURS			
ICEL 1AAA-ICEL-1240 <sup>1</sup>	ICEL 2AAA-ICEL-2240	6 credit hours in Icelandic	
MINOR (OPTION 2) TOTAL: 18 CREDIT HOURS			
ICEL 1AAF and ICEL 1AAG, ICEL-1220 or ICEL 1AAA-ICEL-1240	12 credit hours in Icelandic		
HONOURS SINGLE OR DOUBLE <sup>2</sup>			
ICEL 2AAA-ICEL-2240	ICEL 2220, ICEL 2AAH, ICEL 2AAI ICEL-2300	ICEL 2310, ICEL 3400	<ul style="list-style-type: none"><li>• ICEL 4420, ICEL 4440, ICEL 4460</li><li>• 3 credit hours in Icelandic courses numbered at the 3000 level</li></ul>
NOTES:			

**NOTES:**

<sup>1</sup> "Prior to standing" in ICEL 1AAA-ICEL-1240 will be determined by means of a written test administered by the department at time of registration.

<sup>2</sup> Students who qualify for Single or Double Honours must select the balance of their work in years 2, 3, and 4 from: Classics, English, French, German, History, Philosophy, or Russian in consultation with the department head.

The Department of Icelandic proposes the above changes be made to the Icelandic programs.

*Helga Hilmi-Scott*

## Labour Studies

### Course deletions:

LABR 1270 Introduction to the Political Economy of Labour Cr.Hrs. 3	-3
LABR 3300 Workers, Employers and the State Cr.Hrs. 3	-3

### Course introductions:

LABR 1XXX Working for a Living Cr.Hrs. 3 +3  
An introduction to the study of working lives in the contemporary world and the global transformation that has made working for wages central to human existence. Students may not hold credit for both LABR 1XXX and the former LABR 1270 (153.127).

LABR 2XXX Political Economy of Labour Cr.Hrs. 3 +3  
This course examines the dynamics of work organization, the production and reproduction of labour power, labour markets and class conflict in capitalist societies, with attention to contemporary Canada. Students may not hold credit for LABR 2XXX and any of: LABR 2420 (153.242) or ECON 2420 (018.242). Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies Coordinator.

LABR 2XXY Workers, Employers and the State Cr.Hrs. 3 +3  
This course examines the social, economic and political contexts of work and the relations, rules and structures that shape the interactions between workers, employers and the state. Topics include workers' and management rights, the rights, obligations and the functions of unions, the legal contexts of labour/management relations, and initiatives for increasing equity. Students may not hold credit for both LABR 2XXY and the former LABR 3300. Prerequisite: [a grade of "C" or better in three credit hours of 1000 level Labour Studies] or written consent of the Labour Studies Coordinator.

### Course modifications:

LABR 2420 Economics of the Labour Process and Labour Relations Cr.Hrs. 6  
(formerly 153.242) An examination of theoretical approaches to paid and unpaid work, the organization of labour processes, the production and reproduction of labour, and labour markets in Canada today, as well as possible alternatives. Students may not hold credit for LABR 2420 (153.242) and any of: LABR 2XXX or ECON 2420 (018.242). Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or [a grade of "C" or better in six credit hours of 1000 level Economics].

LABR 2440 Economic and Social Measurement Cr.Hrs. 3  
(formerly 153.244) Sources, techniques and limitations of data collection and processing in the socio-economic sphere. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

LABR 2450 Labour and Technology Cr.Hrs. 3  
(formerly 153.245) Examination of the relationship between technological change and levels of employment, organization/quality of work and division of labour. Same as Economics ECON 2500 (018.250) Labour and Technology (3). Students may not hold credit for both LABR 2450 (153.245) and ECON 2500 (018.250). Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former

LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or [a grade of "C" or better in six credit hours of 1000 level Economics] or written consent of the Labour Studies Coordinator.

**LABR 3010 Labour Law Cr.Hrs. 3**

(formerly 153.301) An introduction to legislation and interpretation, legal procedures, and quasi-judicial boards as they concern the organization of trade unions, collective bargaining, settlement of disputes, labour standards, workers' compensation, unemployment insurance and human rights.

Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3030 Labour and the Bargaining Process Cr.Hrs. 3**

(formerly 153.303) A course to explain labour's involvement in the negotiation process including the mechanics and the theoretical issues of bargaining. The course focuses on contemporary issues.

Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3060 Workplace Health and Safety Cr.Hrs. 3**

(formerly 153.306) An introduction to occupational health, industrial hygiene and industrial safety emphasizing the impact of chemical hazards on the body, the measure and control of hazards and the causes and prevention of industrial accidents. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3070 Labour Relations and Occupational Health and Safety Law Cr.Hrs. 3**

(formerly 153.307) The economic costs of workplace injuries and sickness; the history of occupational health and safety laws and their implementation; the history and functions of workers' compensation; collective bargaining on health and safety. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3130 Employment Legislation and the Protection of Workers Cr.Hrs. 3**

(formerly 153.313) An examination of the legal rights and obligations of workers and employers, and the enforcement mechanisms for the non-unionized workplace, over the course of employment relationship from hiring through to termination or retirement. Special emphasis will be placed on statutory and common law, personal employment contracts, wrongful and constructive dismissal, human rights legislation and jurisprudence. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3140 Pensions and Benefits Cr.Hrs. 3**

(formerly 153.314) The nature and role of pensions in the life cycle of workers and the issue of pension funds control on distribution. The role of non-wage benefits in the labour compensation package. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

**LABR 3150 Labour Adjustment Cr.Hrs. 3**

(formerly 153.315) An examination of occupational and labour training and of income support systems available to the Canadian labour force, including recent immigrants, with comparisons to some other countries. Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or

153.127) and LABR 1290 (153.129) (the former 153.128)] or written consent of the Labour Studies Coordinator.

LABR 3510 Industrial Relations Cr.Hrs. 6

(formerly 153.351) A study of comparative employer-employee relationships in Canada and other selected countries as affected by market forces, social traditions, and government action. Students may not hold credit for both LABR 3510 (153.351) and ECON 3510 (018.351). Prerequisite: [a grade of "C" or better in both LABR 1XXX (the former LABR 1270 or 153.127) and LABR 1290 (153.129) (the former 153.128)] or [a grade of "C" or better in six credit hours of 1000 level Economics].

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

In the General Major, Advanced Major and Minor Programs, Year 1 of the programs is being modified to reflect the new program requirements: LABR 1XXX and LABR 1290.

The list of electives has been expanded to include: HIST 3AAA, POLS 3XAA, POLS 3YAA, POLS 3YBB and POLS 4YDD. POLS 4570 has been marked for deletion.

## Labour Studies

2007-2008 Undergraduate Calendar, page 136-137

- Revisions to General Major, Advanced Major and Minor Programs
- Modification of "List of Electives"

### Added material

### Deleted material

#### 8.19.2 Program Information

##### Major Program

For entry to the Major, the prerequisite is a grade of "C" or better in both LABR 1XXX (the former LABR 1270) and LABR 1290 (the former 153.128). For students who have taken additional courses toward the major, a minimum cumulative GPA of 2.00 is required on all courses including the higher grade of repeated courses and excluding failed courses.

A minimum cumulative GPA of 2.00 in all courses that comprise the Major is required to graduate including the higher grade of repeated courses and excluding failed courses.

##### Minor Program

For entry to the Minor, the prerequisite is a grade of "C" or better in both LABR 1XXX (the former LABR 1270) and LABR 1290 (the former 153.128).

##### All Programs

While ECON 1210 Introduction to Canadian Economic Issues and Policies and ECON 1220 Introduction to Global and Environmental Economic Issues and Policies, and SOC 1200 Introduction to Sociology are not required, they are highly recommended. Students are encouraged to select additional courses from the List of Core Courses and the List of Electives (see below).

Courses used towards a Labour Studies Major or Minor may not be used towards a Major/Minor or Honours in the second field.

#### 8.19.3 Labour Studies, Program Code 153

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
GENERAL MAJOR TOTAL: 30 CREDIT HOURS			
LABR 1XXX-LABR-1270 and LABR 1290	<ul style="list-style-type: none"><li>6 credit hours of LABR courses at the 2000 level</li><li>6 credit hours of LABR courses at the 3000 level</li><li>12 credit hours from LABR courses and/or the list of electives below</li></ul>		
ADVANCED MAJOR TOTAL: 54 CREDIT HOURS			
LABR 1XXX-LABR-1270 and LABR 1290	<ul style="list-style-type: none"><li>6 credit hours of LABR courses at the 2000 level</li><li>21 credit hours of LABR courses at the 3000 level</li><li>LABR 4510 and LABR 4520</li><li>12 credit hours from LABR courses and/or the list of electives below</li></ul>		
MINOR TOTAL: 18 CREDIT HOURS			
LABR 1XXX-LABR-1270 and LABR 1290	<ul style="list-style-type: none"><li>6 credit hours of LABR courses at the 2000 level</li><li>6 credit hours of LABR courses at the 3000 level</li></ul>		

#### List of Electives

The following courses may be selected to fulfill the requirements for a degree in Labour Studies (see the table above for details). Other courses might be chosen for this purpose, in accordance with students' individual interests, but require advance permission from the Labour Studies coordinator. Students are responsible for ensuring that all

prerequisites have been met. In the following list (H) indicates an Honours course.

Faculty of Arts

Economics

ECON 2280 Social Welfare and Human Resources

6

ECON 2350	Community Economic Development	3	019.487*	Government and Public Sector Unionism (H)	3
ECON 2360	Women in the Canadian Economy	6	Psychology		
ECON 2500	Labour and Technology (same as Labour Studies LABR 2450)	3	PSYC 3510	Organizational Psychology	3
ECON 3170	Introduction to Quantitative Methods in Economics	3	PSYC 3600	Environmental Psychology	3
ECON 3300	Canadian Economic History	6	Sociology		
ECON 3360	Labour Economics	6	SOC 2290	Introduction to Research Methods	6
ECON 3510	Industrial Relations (same as Labour Studies LABR 3510)	6	SOC 3370	Sociology of Work	3
ECON 3660	Economic Ideas and Social Institutions	6	SOC 3371	Sociologie du travail (CUSB)	3
	History		SOC 3470	Political Sociology	3
HIST 2670	History of Capitalism (M)	3	SOC 3471	Sociologie politique (CUSB)	3
HIST 2671	Histoire du capitalisme (M)	3	SOC 3820	Qualitative and Historical Methods in Sociology	3
HIST 2680	A History of Socialism from the French Revolution to the Present (M)	3	SOC 3870	Social Inequality	3
HIST 2690	The Common People in Industrial Society (C)	6	SOC 3871	Inégalités sociales (CUSB)	3
HIST 2710	Women in History (G)	6	Women's Studies		
HIST 2720	The World Since 1945 (G,M)	6	WOMN 2500	Race, Class and Sexuality	3
HIST 2970	Modern Canada: 1921 to the Present (C)	6	WOMN 3550	Feminist Community Organizing: Theories and Practices	3
HIST 2971	Le Canada moderne: de 1921 à nos jours (C) (CUSB)	6	I.H. Asper School of Business (Faculty of Management)		
HIST 3050	Canada since 1945 (C)	6	Business Administration		
HIST 3210	The History of Popular Radicalism in the Twentieth Century (M)	6	GMGT 2030	Administrative Theory	3
<u>HIST 3AAA</u>	<u>History of Winnipeg from 1870-2000 (C)</u>	<u>3</u>	GMGT 2080	Introduction to Management and Organization Theory	3
HIST 3570	History of Women in Canada (C)	6	GMGT 3030	Contemporary Social Issues in Business	3
HIST 3700	History of Working People and Labour Movements 1700 to the Present (G) (same as Labour Studies LABR 3700)	6	HRIR 2440	Human Resource Management	3
HIST 3730	A History of Western Canada (C)	6	HRIR 3430	Selected Topics in Industrial Relations	3
HIST 4030	The History of Communism and Socialism since 1945 (M) (H)	6	HRIR 3450	Labour and Employment Relations (or the former 027.341)	3
	Native Studies		HRIR 4420	Compensation	3
NATV 3320	Aboriginal Organizations	3	HRIR 4480	Collective Bargaining and Administration	3
	Philosophy		HRIR 4520	Comparative Industrial Relations and Human Resource Management	3
PHIL 2290	Ethics and Society	6	Interdepartmental Courses		
PHIL 2830	Business Ethics	3	IDM 3000	Aboriginal Business Context: Influences and Impacts	3
PHIL 3710	Critiques of Contemporary Society	6	IDM 4090	Aboriginal Business Leadership	3
	Political Studies				
<u>POLS 3XAA</u>	<u>Introduction to Marxism</u>	<u>3</u>			
<u>POLS 3YAA</u>	<u>Canadian Public Management</u>	<u>3</u>			
<u>POLS 3YBB</u>	<u>Administrative Theory in the Public Sector</u>	<u>3</u>			
<u>POLS 4YDD</u>	<u>Comparative Public Administration (H)</u>	<u>3</u>			
POLS 4570*	Public Organizational Management (H)	6			
POLS 4660	The State in the Economy (H)	6			

\* No longer offered

For course descriptions, see departmental listings.



## Latin American Studies

The list of courses for Latin American Studies has been expanded to include ANTH 2690.

### Latin American Studies Program

2007-2008 Undergraduate Calendar, pages 137-138

- Revision to list of courses for Latin American Studies

#### Added material

~~Deleted material~~

Faculty of Arts			Clayton H. Riddell Faculty of Environment, Earth, and Resources		
Anthropology			Geography		
ANTH 2690	Peoples and Cultures of Contemporary Latin America (B)	3	GEOG 2350	Latin America (A)	6
			* Indicates course no longer offered		
ANTH 2980**	Anthropological Perspectives on Contemporary Mexico (B)	3			
ANTH 2990**	Prehispanic Cultures of Mexico (D)	3			
ANTH 3680	Anthropological Perspectives on Current Issues in Latin America (B)	3			
076.366*	Latin American Culture History	3			
076.369*	Peoples and Cultures of Contemporary Latin America	6			
* Indicates course no longer offered					
** Offered only in second term as part of the "Term in Mexico" option.					
Economics					
ECON 3390	Development Economics	6			
History					
HIST 2140	Colonial Latin America (A)	3			
HIST 2150	Independent Latin America (A)	3			
HIST 3020	South America Since 1945 (A)	3			
HIST 3040	Mexico, Central America, and Cuba Since 1945 (A)	3			
HIST 4870	Contemporary Latin America (A)	6			
Spanish					
SPAN 2200	Spanish American Culture and Civilization	3			
SPAN 2530	Spanish-American Literature 1	3			
SPAN 2540	Spanish-American Literature 2	3			
SPAN 3230	Spanish-American Fiction Since 1950	3			
SPAN 3250	Realism in Spanish-American Fiction	3			
SPAN 3260	Twentieth-Century Theatre and Poetry in Spanish America	3			
SPAN 3690	Nineteenth-Century Theatre and Poetry in Spanish America	3			
044.370*	The Novel of the Land and the Realistic Short Story in Spanish America	3			
044.373*	The Spanish-American Essay and Twentieth-Century Poetry and Drama	3			
044.374*	The New Spanish-American Novel and the Contemporary Short Story	3			

## Native Studies

### Course modifications:

#### NATV 2300 Cree Literature Cr.Hrs. 3

(formerly 032.230) A survey of Cree literature based on the extensive study of particular texts in cultural, historical and spiritual contexts. Prerequisite: [a grade of "C" or better in NATV 2250 (032.225) or 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 department head.

#### 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 NATV 2270 (032.227) or 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 department head.

### NET CHANGE IN CREDIT HOURS:

**0 HOURS**

In the Native Studies Aboriginal Governance Stream Advanced Major, the Political Studies requirements are being modified by the addition of POLS 2070 and the deletion of POLS 2570.

#### Native Studies

2007-2008 Undergraduate Calendar, page 141

- Revision to Native Studies Aboriginal Governance Stream - Advanced Major

Added material

~~Deleted material~~

8.23.4 Native Studies Aboriginal Governance Stream, Program Code: 032G			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
NATIVE STUDIES ADVANCED MAJOR ABORIGINAL GOVERNANCE STREAM WITH REQUIRED MINOR IN BUSINESS			
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>1</sup></li><li>▪ Additional courses required for purposes of completing the governance stream are</li></ul> Faculty of Arts Economics ECON 1200 Political Studies POLS 1500 and <u>POLS 2070</u> -POLS-2570 Faculty of Science Computer Science COMP 1260 Statistics STAT 1000		
REQUIRED MINOR IN BUSINESS FOR THOSE STUDENTS IN A DECLARED ABORIGINAL GOVERNANCE STREAM			
ACC 1100, ACC 1110, FIN 2200, GMGT 2030, GMGT 3300, HRIR 2440, MIS 2000, MKTG 2210	6 credit hours from: ENTR 3100, FIN 3470, GMGT 2000, HRIR 4410		
NOTE:			
<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.			

## Philosophy

### Course modification:

PHIL 3580 Kant Cr.Hrs. 3

(formerly 015.358) A study of the 18<sup>th</sup>-century German thinker, Immanuel Kant, focusing on the revolutionary theories about reality and human knowledge contained in his major metaphysical work, The Critique of Pure Reason. Prerequisite: [a grade of "C" or better in one of: PHIL 2630 (015.263) or PHIL 2631 (015.263) or PHIL 2640 (015.264) or PHIL 2641 (015.264)] or written consent of department head. PHIL 3580 (015.358) counts as a Group 2 and Group 4 course.

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

**0 HOURS**

## Political Studies

### Course deletions:

POLS 2430 The European Union in World Politics Cr.Hrs. 3	-3
POLS 2530 Elements of Foreign Policy Cr.Hrs. 6	-6
POLS 2570 Introduction to Public Administration Cr.Hrs. 6	-6
POLS 2710 Introduction to Political Analysis Cr.Hrs. 6	-6
POLS 2810 Empirical Political Theory Cr.Hrs. 6	-6
POLS 2920 Government, Politics and Society in Ukraine Cr.Hrs. 6	-6
POLS 4570 Public Organizational Management Cr.Hrs. 6	-6
POLS 4810 Seminar in Marxist-Leninist and Contemporary Marxist Political Theory Cr.Hrs. 6	-6
POLS 4830 The Politics of International Regions Cr.Hrs. 6	-6
POLS 4910 Scope and Methods in Political Science Cr.Hrs. 6	-6

### Course introductions:

POLS 1WAA Global Political Issues Cr.Hrs. 3	+3
An investigation of the most pressing global issues facing the world today, including debates over globalization, the rise of trans-sovereign problems, and current theories about the future of the state.	
POLS 1XAA Political Ideas and Ideologies Cr.Hrs. 3	+3
An introduction to different philosophical systems of political beliefs and values that structure contemporary political discourse and practice.	
POLS 1YAA Law, Politics, and Power in Canada Cr.Hrs. 3	+3
An introduction to the basic structures and processes of politics, law and power in Canada with the aim of explaining and assessing contemporary issues and events.	
POLS 1ZAA Democracy and Development Cr.Hrs. 3	+3
An examination of development and democracy as desiderata of good societies and an examination of historical conditions in which individual and collective freedom on the one hand, and economic prosperity on the other, have been achieved in the various countries of the world.	

POLS 3WBB Politics of the European Union Cr.Hrs. 3 +3  
A study of the creation and evolution of the "European movement" which began after World War II as well as the various stages of European integration to the present day. Topics include institutional development; economic, monetary, and political union; and the global relations of the modern EU. Students may not hold credit for both POLS 3WBB and the former POLS 2430 (019.243).  
Prerequisite: [a grade of "C" or better in one of: POLS 2000 (019.200) or POLS 2040 (019.204) or POLS 2041 (019.204)] or written consent of instructor or department head.

POLS 3WCC Middle East Politics Cr.Hrs. 3 +3  
An examination of the Middle East as a region of global strategic significance, with an emphasis on the major issues related to war and peace in selected Middle Eastern conflicts. Students may not hold credit for both POLS 3WCC and POLS 3140 (019.314) when offered with the topic "Arab Israeli Conflict".

POLS 3XAA Introduction to Marxism Cr.Hrs. 3 +3  
An overview of the thought of Karl Marx and Fredrick Engels, focusing on its philosophical origins, key concepts and ideas of their historical materialism, critique of political economy, political theory and philosophy. The development of Marxism after Marx and Engels, particularly in the tradition of Western Marxism, will be traced in the case of each concept and idea. Students may not hold credit for both POLS 3XAA and the former POLS 4810 (019.481).

POLS 3YAA Canadian Public Management Cr.Hrs. 3 +3  
An introduction to the internal and external factors affecting contemporary public sector management in Canada. The course will examine the primary values, policies, processes, and structures within the civil service. Prerequisite: [a grade of "C" or better in one of: POLS 2070 (019.207) or POLS 2071 (019.207) or POLS 2571 (019.257) or the former POLS 2570 (019.257)] or written consent of instructor or department head.

POLS 3YBB Administrative Theory in the Public Sector. Cr.Hrs. 3 +3  
A study of the fundamental principles with which to understand human behaviour inside public organizations. The course addresses a diverse but comprehensive set of historical and current theories, concepts and approaches in the field of public administration. Prerequisite: [a grade of "C" or better in one of: POLS 2000 (019.200) or POLS 2070 (019.207) or POLS 2571 (019.257) or POLS 3YAA or the former POLS 2570 (019.257)] or written consent of instructor or department head.

POLS 3ZCC Politics, Government and Society in Ukraine Cr.Hrs. 3 +3  
An analysis of political transition and development in Ukraine. Ukraine's international relations will also be examined. Students may not hold credit for both POLS 3ZCC and POLS 3140 (019.314) when offered with the topic "Government Politics in Ukraine" or the former POLS 2920 (019.292).  
Prerequisite: [a grade of "C" or better in one of: POLS 2000 (019.200) or POLS 2040 (019.204) or POLS 2041 (019.204)] or written consent of instructor or department head.

POLS 4YCC Managing Modern Government Cr.Hrs. 3 +3  
A study of the skills required to effectively manage in the public sector. Topics covered include: managerial effectiveness, written and interpersonal communication, gaining power and influence, working with political staff and politicians, conflict management, risk management, performance management, creating and working through teams, decisions-making, motivation, and empowerment. Students may not hold credit for both POLS 4YCC and the former POLS 4570 (019.457).  
Prerequisite: written consent of instructor or department head.

POLS 4YDD Comparative Public Administration Cr.Hrs. 3

+3

A study of the systems, processes, and values of public administration in an international comparative context. Topics include public sector organization and reform, international standards of policy and practice, and the role of international institutions in promoting public sector modernization. The course covers countries from several geographic zones and places domestic issues in the larger, global political economy. Prerequisite: written consent of instructor or department head.

POLS 4YGG Indigenous Governance Cr.Hrs. 3

+3

An examination of Indigenous governance before and since the 'European invasion' which introduces key themes, debates and controversies pertaining to Indigenous governance and its study. Students may not hold credit for both POLS 4YGG and POLS 4160 (019.416) when offered with the topic "Indigenous Governance". Prerequisite: written consent of instructor or department head.

## NET CHANGE IN CREDIT HOURS:

-18 HOURS

In the Honours Single and Honours Double program notes, the political theory courses listing in program note 1 are being modified by the addition of POLS 3XAA and the deletion of POLS 2710 and POLS 4810.

### Political Studies

2007-2008 Undergraduate Calendar, pages 144-145

- Revision to Honours Single and Honours Double Program Notes

#### Added material

#### Deleted material

8.26.3 Political Studies, Department Code: 019			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS SINGLE<sup>1,3</sup></b>			
6 credit hours in Political Studies courses numbered at or above the 1000 level	<ul style="list-style-type: none"> <li>18 credit hours from POLS 2000, POLS 2040, POLS 2070, POLS 2510</li> <li>12 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li>POLS 3950</li> <li>15 credit hours in Political Studies courses numbered at the 3000 level<sup>2</sup></li> <li>6 credit hours in ancillary options</li> </ul>	<ul style="list-style-type: none"> <li>18 credit hours in Political Studies Honours courses numbered at the 4000 level</li> <li>6 credit hours in ancillary options</li> </ul>
<b>HONOURS DOUBLE<sup>1,3</sup></b>			
6 credit hours in Political Studies courses numbered at or above the 1000 level	<ul style="list-style-type: none"> <li>12 credit hours from POLS 2000, POLS 2040, POLS 2070, POLS 2510</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>12 credit hours in Political Studies courses numbered at the 3000 level<sup>2</sup></li> <li>an additional 12 or 18 credit hours depending on other Honours field</li> </ul>	<ul style="list-style-type: none"> <li>12 credit hours in Political Studies Honours courses numbered at the 4000 level</li> <li>12 credit hours in other Honours field</li> </ul>
NOTES:			
<sup>1</sup> A student must include at least six credit hours in political theory (POLS 2510, POLS 2710, POLS 3240, POLS 3510, POLS 3600, POLS 3610, POLS 3XAA, POLS 4510, POLS 4610, POLS 4810).			
<sup>2</sup> A student in Single or Double Honours may, with written permission of the department head, substitute six credit hours in Honours courses numbered at the 4000-level in place of six credit hours numbered at the 3000-level.			
<sup>3</sup> Ancillary options are courses taken from outside the Honours field of study.			

## Psychology

### Course introduction:

PSYC 3XXX Thinking Critically About Psychological Research Cr.Hrs. 3 +3

This course will teach students to apply critical thinking skills in the evaluation of psychological research. Core components will include the logic of research design, analysis and interpretation, the description of psychological studies, and the critical reading of published research. Activities will include the preparation of critiques of research claims published in both academic journals and in the main-stream press, sample research proposals, individual and/or group projects, and individual and/or group presentations. Prerequisite: [a grade of "C" or better in PSYC 2300 (017.230)] or [a grade of "C" or better in both of PSYC 2250 (017.225) and PSYC 2260 (017.226)] or [a grade of "C" or better in both PSYC 2251 (017.225) and PSYC 2261 (017.226)].

### Course modification:

PSYC 4520 Honours Research Seminar Cr.Hrs. 6

(formerly 017.452) In first term there will be an examination of important experimental issues, and several experimental assignments. In addition, each student will propose a research project of greater scope to be conducted under the supervision of a Psychology staff member. In second term, students will carry out their projects and report their findings. Prerequisite [90 credit hours towards honours program, including a grade of "C" or better in PSYC 3XXX, and three credit hours in PSYC 3630 (017.363) or PSYC 3631 (017.363) or PSYC 3340 or the former PSYC 4500 (017.450) or the former PSYC 4570 (017.457)] and written consent of department head.

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

**+3 HOURS**

In the Honours Single Program, Year 3 is being modified to reflect the new program requirements: 3 credit hours from PSYC 3340 or PSYC 3630; PSYC 3XXX; 15 credit hours in Psychology courses (3 hours each of at least two different lettered menu courses not taken in Year 2); 9 credit hours in ancillary options.

In the Honours Double Program, Year 3 is being modified to reflect the new program requirements: 3 credit hours from PSYC 3340 or PSYC 3630; PSYC 3XXX; 6 credit hours in Psychology courses (3 hours each of at least two different lettered menu courses not taken in Year 2); 12 credit hours in other Honours field.

- Revisions to Honours Single and Honours Double Programs

Added material  
~~Deleted material~~

**8.27.3 Psychology, Department Code: 017**

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS SINGLE</b>			
PSYC 1200 or PSYC 1211 and PSYC 1221	<ul style="list-style-type: none"> <li>PSYC 2300<sup>1</sup></li> <li>6 credit hours in Psychology courses numbered at the 2000 or 3000 level: (3 hours from each of two different lettered menu categories)<sup>2</sup></li> <li>15 credit hours in ancillary options<sup>3</sup></li> <li>3 credit hours in free options<sup>4</sup></li> </ul>	<ul style="list-style-type: none"> <li>3 credit hours from PSYC 3340 or PSYC 3630</li> <li>PSYC 3XXX</li> <li>15 credit hours in Psychology courses: (3 hours each of at least two different lettered menu courses not taken in Year 2)</li> <li>9 credit hours in ancillary options<sup>3</sup></li> <li>3 credit hours in free options<sup>4</sup></li> </ul>	<ul style="list-style-type: none"> <li>PSYC 4520</li> <li>6 credit hours in Psychology courses numbered at the 4000 level</li> <li>6 credit hours in Psychology courses numbered at any level, including any remaining menu category</li> <li>6 credit hours in ancillary options<sup>3</sup></li> </ul>
<b>HONOURS DOUBLE</b>			
PSYC 1200 or PSYC 1211 and PSYC 1221	<ul style="list-style-type: none"> <li>PSYC 2300<sup>1</sup></li> <li>6 credit hours in Psychology courses numbered at the 2000 or 3000 level: (3 hours from each of two different lettered menu categories)<sup>2</sup></li> <li>12 credit hours in other Honours field</li> <li>6 credit hours in an ancillary option<sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>3 credit hours from PSYC 3340 or PSYC 3630</li> <li>PSYC 3XXX</li> <li>6-9 credit hours in Psychology courses: (3 hours from each of two three-different lettered menu categories not already taken in Year 2)</li> <li>12 credit hours in other Honours field</li> </ul>	<ul style="list-style-type: none"> <li>PSYC 4520</li> <li>6 credit hours in Psychology courses numbered at the 4000 level</li> <li>12 credit hours in other Honours field</li> </ul>
<p>NOTES:</p> <p><sup>1</sup> PSYC 2250 and PSYC 2260 are required when PSYC 2300 is not offered.</p> <p><sup>2</sup> Lettered menu categories are as follows:</p> <p>Category A: Personality/Social PSYC 2410, PSYC 2420, PSYC 3450, PSYC 3460</p> <p>Category B: Developmental PSYC 2290, PSYC 2310, PSYC 2370</p> <p>Category C: Learning PSYC 2440, PSYC 2470</p> <p>Category D: Cognitive PSYC 2480, PSYC 3160, PSYC 3170, PSYC 3441, PSYC 3580, PSYC 3610</p> <p>Category E: Biological PSYC 2360, PSYC 3350, PSYC 3430</p> <p><sup>3</sup> Ancillary options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (excluding Psychology courses).</p> <p><sup>4</sup> Free options are to be chosen from courses that are acceptable for credit in the Faculty of Arts (including Psychology courses).</p>			

Religion

Course deletions:

RLGN 2630 Problems of Faith and Reason (C) Cr.Hrs. 6	-6
RLGN 2830 Buddhism (B) Cr.Hrs. 6	-6
RLGN 2860 Hinduism (B) Cr.Hrs. 6	-6

Course introductions:

RLGN 2XXA Introduction to Buddhism (B) Cr.Hrs. 3	+3
A general introduction to the beliefs, practices, and history of the main forms of Buddhism, including Indian Buddhism, Tibetan Buddhism, and Zen. Students may not hold credit for both RLGN 2XXA and the former RLGN 2830 (020.283).	

RLGN 2XXB Problems of Faith and Reason (C) Cr.Hrs. 3 +3  
 An historical and critical study of selected attempts to solve problems concerning the relationship between religious faith and natural reason. Students may not hold credit for both RLGN 2XXB and the former RLGN 2630 (020.263).

RLGN 2XXC Religion and Dance (C) Cr.Hrs. 3 +3  
 An examination of the role of movement and dance in world religions and of attempts to establish a theoretical framework for the study of movement within the discipline.

RLGN 2XXD Introduction to Hinduism (B) Cr.Hrs. 3 +3  
 An overview of the rich and multi-faceted tradition of Hinduism, dealing with its history and development from ancient to modern times. Students may not hold credit for both RLGN 2XXD and the former RLGN 2860 (020.286).

RLGN 3XXA Indian Buddhism (B) Cr.Hrs. 3 +3  
 A thematic and historical study of Indian Buddhism from its origin to its disappearance. Topics covered include early Buddhism, Buddhist doctrine and philosophy, and the development of Mahāyāna and Vajrayāna.

RLGN 3XXB Guru and Disciple (B) Cr.Hrs. 3 +3  
 A study of the role of the guru in India, and of the dynamic of guru and disciple, utilizing traditional Hindu sources as well as contemporary writings.

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

### Sociology

Course introduction:

SOC 3AAA Institutional Responses to Violence in Family and Intimate Relationships Cr.Hrs. 3 +3  
 This course will focus on the growing public awareness of the prevalence of interpersonal violence in Canada, examining studies of prevalence from victimization surveys and criminal justice statistics. We examine various criminological and sociological theories of the causes, dynamics and interventions in family and interpersonal violence, legislation and policy and assess these changes from the perspective of victims and accusers. Students may not hold credit for both SOC 3AAA and SOC 3460 (077.346) when titled "Interpersonal Violence and Institutional Responses". Prerequisite: a grade of "C" or better in SOC 2510 (077.251) or SOC 2511 (077.251).

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



## Ukrainian Canadian Heritage Studies

List C has been modified to include POLS 3ZCC and to mark the deletion of POLS 2920.

### Ukrainian Canadian Heritage Studies Program 2007-2008 Undergraduate Calendar, page 150

#### - Revision to List C

#### Added material

#### ~~Deleted material~~

#### **List C**

##### Faculty of Arts

##### Economics

ECON 2510 The Economy of Ukraine 3

##### German and Slavic Studies

UKRN 2710 Ukrainian Literature of the 16th to 18th Centuries 3

UKRN 3700 Church Slavic: Ukrainian Version 3

##### History

HIST 2600 Introduction to Ukraine (E) 3

HIST 2610 Making of Modern Ukraine (E) 3

HIST 3030 Issues in Ukrainian History (E) 3

011.255\* The History of Ukraine (E) 6

##### Political Studies

POLS 2920\* Government, Politics and Society in Ukraine 6

POLS 3ZCC Politics, Government and Society in Ukraine 3

##### Religion

RLGN 1350 The History of Eastern Christianity (A) 6

RLGN 2530 Eastern Christianity in the Contemporary World (A) 3

RLGN 3570 Major Thinkers in the Eastern Christian Tradition (A) 6

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

##### Geography

GEOG 3600 Geography of Ukraine (A) 3

##### School of Art

FAAH 3280 Early Byzantine Art and Architecture 3

FAAH 3290 Later Byzantine Art and Architecture 3

\*Indicates course no longer offered.

## Women's Studies

### Course deletion:

WOMN 3590 Thinking Through the Body Cr.Hrs. 3 -3

### Course introductions:

WOMN 2XYZ Sex, Gender, Space and Place Cr.Hrs. 3 +3

An examination of how we use places and spaces in our everyday lives to produce and maintain social differences of gender, sexuality, race, class, and citizenship. Drawing on perspectives from

feminist geography and history, this course explores ideas about places (for example, homes) and spaces (for example, regions), as well as historical claims that women belong in place but men should control space. Students may not hold credit for both WOMN 2XYZ and WOMN 2540 (156.254) with the topic "Sex, Gender, Space and Place".

WOMN 3ABC Masculinities Cr.Hrs. 3 +3  
An introduction to the key debates in masculinity studies from a feminist perspective. Considering the idea of "hegemonic masculinity" and the practice of creating a typology of masculinity, this course examines the changing forms of masculinity as a political and cultural category, using historical examples from the 19<sup>th</sup> century and the 1970s and considers the influence of feminist theories on men's engagement with masculinity in North America. Students may not hold credit for both WOMN 3ABC and WOMN 3500 (156.350) with the topic "Masculinities". Prerequisite: [a grade of "C" or better in a minimum of three credit hours of Women's Studies courses] or written consent of the Women's Studies Coordinator.

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

List A has been expanded to include SOC 2460, SOC 2461, SOC 3350.

**Women's Studies**  
**2007-2008 Undergraduate Calendar, page 151-152**

- Revision to "List A"

Added material

~~Deleted material~~

<b>List A</b>			Psychology		
Faculty of Arts			PSYC 2390 Psychology of Women		3
			PSYC 2400 The Psychology of Sex Differences		3
Anthropology			Religion		
			RLGN 2680 Women and Religion 1		3
ANTH 3320 Women in Cross-Cultural Perspective (B)	3		RLGN 2690 Women and Religion 2		3
ANTH 3321 Femmes, société et cultures (B) (CUSB)	3		Slavic Studies		
ANTH 3350 Anthropology of Sex and Sexualities (B)	3		RUSN 2350 Russian Women's Writing from the 1950s to the Present Day		3
Economics			RUSN 3980 Women and Russian Literature		3
ECON 2360 Women in the Canadian Economy	6		UKRN 3970 Women and Ukrainian Literature		3
French, Spanish and Italian			Sociology		
FREN 2680 Littérature féminine française (B)	3		<u>SOC 2460 The Family</u>		<u>3</u>
FREN 3860 Études sur Beauvoir (B)	3		<u>SOC 2461 La famille (CUSB)</u>		<u>3</u>
German			SOC 2470 Courtship and Marriage		3
GRMN 3280 Sex, Gender and Cultural Politics in the German-Speaking World	3		SOC 2471 Les fréquentations et le mariage (CUSB)		3
History			<u>SOC 3350 Feminism and Sociological Theory</u>		<u>3</u>
HIST 2710 Women in History (G)	6		SOC 3770 Women, Health and Medicine		3
HIST 3570 History of Women in Canada (C)	6		SOC 3790 Women, Crime and Social Justice		3
HIST 3760 Problems in American History 1	3		SOC 3810 Sociological Perspectives on Gender and Sexuality		3
		Acceptable for credit only when the topic is "Gender and Sexuality in 20 <sup>th</sup> Century America".	SOC 3811 Sociologie de la sexualité et des rôles sexuels (CUSB)		3
HIST 3810 The Family, Love and Marriage in Western Society, 1500-1800 (E)	6		School of Art		
HIST 3811 Famille, amour et mariage dans la société occidentale, 1500-1800 (E) (CUSB)	6		FAAH 2110 Women and Art		3
HIST 3820 The Women's Movement, 1850 to the Present (G)	6		FAAH 4090 Seminar on Contemporary Issues in Art		3
HIST 4060 Gender History in Canada (C)	6		Acceptable for credit only when the topic is "Women Artists."		
Native Studies			Faculty of Music		
NATV 3360 Aboriginal Women of Canada	3		MUSC 4130 History of Women in Music		3
NATV 3380 Cultural Constructions of Gender in Canadian Aboriginal Societies	3		Faculty of Nursing		
Philosophy			NURS 3330 Women and Health		3
PHIL 3220 Feminist Philosophy	3				
Political Studies					
POLS 3100 Gender and Politics in Canada	3				
POLS 3240 Feminist Political Theory	3				

Collège universitaire de Saint-Boniface – Français and Traduction

Français

Course deletion:

FRAN 2521 Atelier de théâtre Cr.Hrs. 3

-3

Course introduction:

FRAN 2XYZ Atelier de théâtre Cr.Hrs. 6

+6

Ce cours vise à initier les étudiants à la pratique de l'art théâtral. Aussi propose-t-il divers ateliers sur les grandes théories du théâtre, les techniques de l'art dramatique, les écoles de jeu depuis le XVIII<sup>e</sup> siècle et les divers aspects pratiques d'une production théâtrale: son, jeu de lumières, conception et plantation d'un décor. Un étudiant ou une étudiante ne peut se faire créditer le FRAN 2XYZ et l'ancien FRAN 2521 (144.252). Préalable: autorisation écrite du professeur ou de la professeure.

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

Program modifications:

Program List A – Théâtre is being modified to add FRAN 2XYZ Atelier de théâtre (6) in year 2 and delete FRAN 2521 Atelier de théâtre (3).

Program List D – Linguistique and analyse du discours is being modified to add TRAD 4XYZ Analyse du discours I (3) and TRAD 4YYZ Analyse du discours II (3) and to delete TRAD 4021 Analyse du discours (6).

- Revision to Tableau 1 – Liste des cours de français –
- A – THÉÂTRE
- D – LINGUISTIQUE ET ANALYSE DU DISCOURS

TABLEAU 1  
Liste des cours de français

1<sup>re</sup> année (tronc commun sans concentration particulière)

- (FRAN 1001) Grammaire de l'écrit + séance de travaux dirigés (1,5 h)
- (FRAN 1021) L'art de parler
- (FRAN 1071) Lectures dirigées
- (FRAN 1091) Rédaction universitaire + séance de travaux dirigés (2 h)
- (FRAN 1111) Grammaire (3 h) + séance de travaux dirigés (2 h)

A – THÉÂTRE [5]	B – LITTÉRATURES FRANÇAISE ET FRANCOPHONE [6 et 7]	C – LITTÉRATURE CANADIENNE-FRANÇAISE [8]	D – LINGUISTIQUE ET ANALYSE DU DISCOURS [9]
<p>2<sup>e</sup> année</p> <p>FRAN 2521 Atelier de théâtre</p> <p>FRAN 2531 Introduction au théâtre I</p> <p>FRAN 2541 Introduction au théâtre II</p> <p><i>FRAN 2XYZ Atelier de théâtre</i></p>	<p>2<sup>e</sup> année</p> <p>FRAN 2631 Poésie et chanson dans la littérature française</p> <p>FRAN 2641 Le discours amoureux dans la littérature française</p> <p>FRAN 2651 La nature dans la littérature française</p> <p>FRAN 2661 La fantaisie dans la littérature française</p> <p>FRAN 2681 Civilisation française</p>	<p>2<sup>e</sup> année</p> <p>FRAN 2831 L'individu et le pays</p> <p>FRAN 2841 La quête du bonheur</p> <p>FRAN 2851 Le folklore et la littérature orale</p> <p>FRAN 2861 L'influence de la littérature orale</p> <p>FRAN 2881 Civilisation canadienne- française</p>	<p>2<sup>e</sup> année</p> <p>FRAN 2911 Procédés d'écriture</p> <p>FRAN 2921 Phonétique française</p> <p>FRAN 2931 Initiation à la linguistique</p> <p>FRAN 2941 Structures du français contemporain</p> <p>FRAN 2991 Création de textes variés</p> <p>TRAD 2071 Grammaire normative ** (6 crédits)</p> <p>TRAD 2101 Analyse et résumé I**</p>
<p>3<sup>e</sup> année</p> <p>FRAN 3531 Le théâtre québécois</p> <p>FRAN 3541 Le théâtre de l'Ouest</p>	<p>3<sup>e</sup> année</p> <p>FRAN 3631 Les romanciers du XX<sup>e</sup></p> <p>FRAN 3641 Le rire dans la littérature française</p> <p>FRAN 3651 Littérature et vision tragique</p> <p>FRAN 3661 L'esprit de la Révolution française</p> <p>FRAN 3671 Études de poésie</p> <p>FRAN 3681 Thèmes romantiques</p> <p>FRAN 3731 Initiation aux littératures francophones</p>	<p>3<sup>e</sup> année</p> <p>FRAN 3831 L'époque de la contestation</p> <p>FRAN 384 La Révolution tranquille et le roman</p> <p>FRAN 3851 Littérature de l'Ouest : poésie, nouvelles</p> <p>FRAN 3861 Littérature de l'Ouest : roman</p>	<p>3<sup>e</sup> année</p> <p>FRAN 3911 Procédés et analyse stylistiques</p> <p>FRAN 3931 Lexicologie et lexicographie</p> <p>FRAN 3941 Syntaxe du français contemporain</p> <p>FRAN 3951 Évolution de la langue</p> <p>FRAN 3991 Création littéraire : conte et nouvelle</p> <p>TRAD 3101 Analyse et résumé II**</p> <p>TRAD 3141 Rédaction professionnelle I**</p>
<p>4<sup>e</sup> année</p> <p>FRAN 4071 Sujets particuliers (*)</p> <p>FRAN 4551 L'âge d'or du théâtre français</p> <p>FRAN 4561 Le théâtre français du XVIII<sup>e</sup> siècle</p> <p>FRAN 4591 Création littéraire : théâtre</p>	<p>4<sup>e</sup> année</p> <p>FRAN 4061 La femme dans la littérature</p> <p>FRAN 4071 Sujets particuliers (*)</p> <p>FRAN 4081 Littérature et cinéma</p> <p>FRAN 4631 Métamorphose du roman</p> <p>FRAN 4641 Réalisme et engagement</p> <p>FRAN 4651 Poésie féminine</p> <p>FRAN 4661 Nouveaux visages du roman</p> <p>FRAN 4731 Littérature africaine</p> <p>FRAN 4741 Littérature maghrébine</p> <p>FRAN 4751 Littérature antillaise</p>	<p>4<sup>e</sup> année</p> <p>FRAN 4061 La femme dans la littérature</p> <p>FRAN 4071 Sujets particuliers (*)</p> <p>FRAN 4081 Littérature et cinéma</p> <p>FRAN 4831 Littérature de l'Acadie et des Cujuns</p> <p>FRAN 4841 Le roman du terroir</p> <p>FRAN 4851 Du classicisme à l'exotisme</p>	<p>4<sup>e</sup> année</p> <p>FRAN 4011 Sociocritique</p> <p>FRAN 4021 Critique féministe</p> <p>FRAN 4031 Psychocritique</p> <p>FRAN 4071 Sujets particuliers*</p> <p>FRAN 4921 Les parlers régionaux</p> <p>FRAN 4931 La langue dans la littérature</p> <p>FRAN 4971 Sociolinguistique</p> <p>FRAN 4981 Création littéraire : roman</p> <p>FRAN 4991 Création littéraire : poésie</p> <p>TRAD 4141 Rédaction professionnelle II**</p> <p>TRAD 4021 Analyse du discours I**</p>

\*Ce cours pourrait remplacer un autre cours de 3<sup>e</sup> ou de 4<sup>e</sup> année dans n'importe quelle concentration, au cas où l'on aurait besoin d'aborder un sujet non couvert par un autre cours du programme ou au cas où le CUSB recevrait un professeur invité.

\*\*Cours offerts par le secteur de traduction.



*TRAD 4XYZ Analyse du discours I*  
*TRAD 4YYZ Analyse du discours II*

## Traduction

### Course deletion:

TRAD 4021 Analyse du discours Cr.Hrs. 6 -6

### Course introductions:

TRAD 4AAA Traduction biomédicale et pharmaceutique Cr.Hrs. 3 +3

Le cours portera sur l'analyse et la traduction de différents textes genres de textes dans le domaine biomédicale et pharmaceutique. Il mettra l'accent sur les systèmes notionnels, terminologiques et phraséologiques propres au domaine et sur le développement d'une démarche d'exploitation de connaissances spécialisées. Préalable: une note minimale de B dans TRAD 2111(122.211) et TRAD 2151 (122.215) et TRAD 3261 (122.326) et TRAD 3271 (122.327) et TRAD 4411 (122.441).

TRAD 4AAB Théories de la traduction Cr.Hrs. 3 +3

Le cours couvrira les courants théoriques contemporains dans le domaine de la traduction, allant des sourcistes aux ciblistes, tout en mettant un accent particulier sur les approches intermédiaires qui font ressortir la place du traducteur, des institutions, etc. dans le modèle. Préalable: une note minimale de B dans TRAD 2111 (122.211) et TRAD 2151 (122.215) et TRAD 3261 (122.326) et TRAD 3271 (122.327).

TRAD 4AAC Traduction militaire Cr.Hrs. 3 +3

Le cours portera sur l'étude des textes relatifs aux différents aspects de la vie militaire (différents corps d'armes: terre, air, marine), les grades militaires, les armes, l'histoire militaire, le rôle de l'armée dans la société moderne. Préalable: une note minimale de B dans TRAD 2111 (122.211) et TRAD 2151 (122.215) et TRAD 3261 (122.326) et TRAD 3271 (122.327) et TRAD 4411 (122.441).

TRAD 4XYZ Analyse du discours I Cr.Hrs. 3 +3

Le discours comme réseau de relation, fait de langage et fait social. Son inscription dans le schéma de la communication. Initiation à la théorie de communication. La notion de littérarité selon plusieurs modèles théoriques, notamment la théorie de réception et le modèle marxiste. Application à l'analyse de textes littéraires et pragmatiques. Un étudiant ou une étudiante ne peut se faire créditer le TRAD 4XYZ et l'ancien TRAD 4021 (122.402). Préalable: l'autorisation écrite du professeur ou du chef de département de français ou de traduction.

TRAD 4YYZ Analyse du discours II Cr.Hrs. 3 +3

Le discours comme réseau de relation, fait de langage et fait social. Son inscription dans le schéma de la communication. Initiation à la théorie de communication. La notion de littérarité selon plusieurs modèles théoriques, notamment la sémiotique et les perspectives psychanalytiques. Application à l'analyse de textes littéraires et pragmatiques. Un étudiant ou une étudiante ne peut se faire créditer le TRAD 4YYZ et l'ancien TRAD 4021 (122.402). Préalable: l'autorisation écrite du professeur ou du chef de département de français ou de traduction.

### Course modifications:

TRAD 1188 Introduction à l'espagnol Cr.Hrs. 6 (Labo requis)  
(l'ancien 122.118) Ce cours est destiné aux étudiants et étudiantes n'ayant aucune connaissance de l'espagnol ou n'en ayant qu'une connaissance minime. L'accent sera mis sur le vocabulaire, la grammaire et l'acquisition d'aptitudes orales et écrites au moyen d'exercices divers et de pratique au

laboratoire. Les activités de laboratoire alterneront avec des sessions de conversation en groupes. La participation active de l'étudiante ou de l'étudiant est une exigence du cours. On ne peut se faire créditer à la fois le TRAD 1181 (122.118) et les SPAN 1180 (044.118) ou SPAN 1XXX ou SPAN 1280. Ce cours n'est pas disponible aux étudiants qui ont déjà obtenu crédit en TRAD 1261 (122.126)(ou en SPAN 1260 ou 044.126) ou TRAD 1271 (122.127)(ou en SPAN 1270 ou 044.127) ou SPAN 1290. Les étudiants et les étudiantes dont l'espagnol est la langue maternelle et ceux qui possèdent déjà les crédits du cours d'espagnol de secondaire 4 ou l'équivalent ne peuvent s'inscrire à ce cours. Donné au Collège universitaire de Saint-Boniface.

TRAD 1261 Espagnol intermédiaire Cr.Hrs. 3 (Labo requis)  
(l'ancien 122.126) Révision intensive de la grammaire et du vocabulaire étudiés en TRAD 1181 (SPAN 1180) ou en SPAN 1XXX ou en Espagnol 40S. Pratique et perfectionnement des connaissances en classe et au laboratoire. On ne peut se faire créditer à la fois le TRAD 1261 (122.126) et les SPAN 1260 (044.126) ou SPAN 1280 ou SPAN 1290. Préalable: [au moins "C" dans le TRAD 1181. (122.118) (ou en SPAN 1180 ou 044.118) ou SPAN 1XXX] ou [l'équivalent en Espagnol 40S] ou l'autorisation écrite du professeur. Donné au Collège universitaire de Saint-Boniface.

**NET CHANGE IN CREDIT HOURS:**

**+9 HOURS**

Program modification:

Bloc B is being modified to add TRAD 4XYZ Analyse du discours I (3) and TRAD 4YYZ Analyse du discours II (3) and delete TRAD 4021 Analyse du discours (6).

- Revision to Tableau 2 – Cours au choix pour le baccalauréat spécialisé en traduction –  
BLOC B

TABLEAU 1  
Baccalauréat spécialisé en traduction\*

Baccalauréat spécialisé en traduction				
II	cr.	III	cr.	IV
ENGL 2001 Intermediate Writing and Research	6	TRAD 3051 Syntaxe comparée	3	30 crédits de cours choisis dans les blocs A, B, C ou D, ou parmi des cours à option en accord avec le représentant ou la représentante du secteur de traduction.
TRAD 2101 Analyse et résumé de textes I	3	TRAD 3101 Analyse et résumé de textes II	3	
TRAD 2111 Informatique et traduction	3	TRAD 3131 Terminologie bilingue et documentation	3	
TRAD 2151 Introduction à la traduction	3	TRAD 3261 Traduction générale (anglais-français)	3	
+ 15 crédits de cours choisis dans les blocs A, B, C ou D, ou parmi des cours à option.	15	TRAD 3271 General Translation (French-English)	3	
		+ 15 crédits de cours choisis dans les blocs A, B, C ou D, ou parmi des cours à option.	15	

\* La spécialisation commence après avoir terminé Université 1.

TABLEAU 2  
Cours au choix pour le baccalauréat spécialisé en traduction

<p>BLOC A VERSION</p> <p>TRAD 4361 Traduction spécialisée</p> <p>TRAD 4381 Traduction en sciences sociales</p> <p>TRAD 4391 Traduction juridique</p> <p>TRAD 4401 Traduction littéraire</p> <p>TRAD 4411 Traduction scientifique et technique</p> <p>TRAD 4421 Traduction commerciale et économique</p> <p>TRAD 4501 Initiation à la localisation</p>	<p>BLOC C THÈME</p> <p>TRAD 4231 Translation in the Social Sciences</p> <p>TRAD 4241 Legal Translation</p> <p>TRAD 4251 Literary Translation</p> <p>TRAD 4271 Scientific and Technical Translation</p> <p>TRAD 4371 Specialized Translation</p>
<p>BLOC B RÉDACTION ET TRADUCTION</p> <p>TRAD 2071 Grammaire normative</p> <p>TRAD 3011 Lexicologie comparée</p> <p>TRAD 3121 Lexicographie comparée</p> <p>TRAD 3141 Rédaction professionnelle comparée I</p> <p>TRAD 4021 Analyse du discours</p> <p>TRAD 4071 Mémoire de traduction</p> <p>TRAD 4101 Mémoire de terminologie</p> <p>TRAD 4141 Rédaction professionnelle comparée II</p>	<p>BLOC D PRATIQUE</p> <p>TRAD 3111 Laboratoire I</p> <p>TRAD 4011 Atelier de traduction professionnelle</p> <p>TRAD 4051 Révision</p> <p>TRAD 4061 Terminologie appliquée</p> <p>TRAD 4081 Sous-titrage</p> <p>TRAD 4091 Gestion d'un service de traduction</p> <p>TRAD 4111 Laboratoire II</p> <p>TRAD 4261 Initiation à l'interprétation</p> <p>TRAD 4281 Adaptation publicitaire</p>

2) Le certificat de traduction

Ce certificat est conçu pour les personnes qui possèdent déjà un premier baccalauréat et qui désirent se réorienter sur le plan professionnel ou celles qui veulent retourner aux études après avoir acquis de l'expérience dans des domaines tels que l'enseignement. Il s'adresse également à tous ceux et celles qui sont passionnés par les langues. Ce programme est basé sur 30 crédits (voir Tableau 3) mais pourrait en requérir davantage, selon le niveau de l'étudiant ou de l'étudiante au moment de l'examen d'admission.

Cours obligatoires :

- TRAD 2151 Introduction à la traduction (3)
- TRAD 3131 Terminologie bilingue et documentation (3)
- TRAD 3261 Traduction générale (anglais-français) (3)

TRAD 4xy2 Analyse du discours I  
TRAD 4yy2 Analyse du discours II

Un cours parmi les suivants :

- TRAD 3011 Lexicologie comparée (3)
- TRAD 3051 Syntaxe comparée (3)
- TRAD 3121 Lexicographie comparée (3)

Cours au choix :

18 crédits dont 3 dans chacun des blocs E, F et G.

Le cours TRAD 2111 pourrait être inclus dans ces crédits avec l'autorisation écrite de la représentante ou du représentant du secteur de traduction.



## Honours Double Program: Français – Traduction

The Collège is proposing the introduction of an honours double program in Français-Traduction. No new resources would be required.

### Program Plan

Year	Français	Translation	Other
I	6 credit hours Required courses <sup>1</sup> : FRAN 1091 (3) + 3 credit hours from: FRAN 1021 (3), FRAN 1071 (3) or FRAN 1111 (3), depending on results of the placement test	6 credit hours of English language or literature <sup>2</sup>	- 6 credit hours in science (including 3 in mathematics) <sup>3</sup> - 6 credit hours in the social sciences - 6 credit hours in the humanities
II	12 credit hours Required courses <sup>1</sup> : FRAN 2911 <i>Procédés d'écriture</i> (3) FRAN 2531 <i>Intro au théâtre I</i> (3) + 6 credit hours of courses at the 2000, 3000, or even 4000 levels	12 credit hours from: - TRAD 2151 <i>Intro à la traduction</i> (3) - TRAD 2111 <i>Informatique et traduction</i> (3) - TRAD 2071 <i>Grammaire normative</i> (6) or - ENGL 2001 <i>Intermediate Writing and Research</i> (6) or TRAD 2101 <i>Analyse et résumé de textes I</i> (3) and TRAD 3101 <i>Analyse et résumé de textes II</i> (3)	6 credit hours of electives <sup>4</sup>
III	12 credit hours Required courses <sup>1</sup> : FRAN 3731 <i>Initiation aux littératures francophones</i> (3) + 9 credit hours of courses numbered at the 3000 or 4000 level	12 credit hours from: TRAD 3011 <i>Lexicologie comparée</i> (3) TRAD 3051 <i>Syntaxe comparée</i> (3) TRAD 3121 <i>Lexicographie comparée</i> (3) TRAD 3131 <i>Terminologie bilingue et documentation</i> (3) TRAD 3261 <i>Traduction générale</i> (3) TRAD 3271 <i>General Translation</i> (3)	6 credit hours of electives <sup>4</sup>
IV	12 credit hours Required courses <sup>1</sup> : TRAD 4XYZ <i>Analyse du discours I</i> (3) + 9 credit hours of courses at the 4000 level	12 credit hours - 3 credit hours (Bloc A: translation into French) - 3 credit hours (Bloc C: translation into English) - 3 credit hours (Bloc B: practice) - TRAD 4XYZ <i>Analyse du discours II</i> (3)	6 credit hours of electives <sup>4</sup>
Total	42 credit hours including at least 3 from each of groups A, B, C and D	42 credit hours	36 credit hours including 18 of electives (= the possibility of pursuing the equivalent of a minor in a 3 <sup>rd</sup> language if the student wishes to)

<sup>1</sup> Required courses have been chosen to ensure that all students have touched on the notions of literary genre, the various literatures in French, criticism and writing techniques.

<sup>2</sup> First-year students fluent enough in English could take ENGL 2001 and then TRAD 2071 or TRAD 2101 or TRAD 3101 in 2<sup>nd</sup> year. Other students must take a literature course at the 1000 level.

<sup>3</sup> In addition to taking the required social science courses, students must also meet the mathematic requirement by taking one of the following: MATH 1191, MATH 1201, MATH 1301, MATH 1501, MATH 1701, STAT 1001, ~~COMP 1011,~~  
~~COMP 1021, COMP 1261, COMP 1271.~~

<sup>4</sup> A third language is recommended.

### Ancillary Options for the Double Major Program in French and Translation

Bloc A – Translation into French	Bloc B – Writing and Translation	Bloc C – Translation into English
TRAD 4361 <i>Traduction spécialisée</i> TRAD 4381 <i>Traduction en sciences sociales</i> TRAD 4391 <i>Traduction juridique</i> TRAD 4401 <i>Traduction littéraire</i> TRAD 4411 <i>Traduction scientifique et technique</i> TRAD 4421 <i>Traduction commerciale et économique</i> TRAD 4261 <i>Initiation à l'interprétation</i> TRAD 4061 <i>Terminologie appliquée*</i> AAC TRAD 4*** <i>Traduction militaire</i> TRAD 4*** <i>Traduction biomédicale et pharmaceutique</i>	TRAD 3111 <i>Laboratoire I</i> TRAD 4011 <i>Atelier de traduction professionnelle</i> TRAD 4071 <i>Mémoire de traduction</i> TRAD 4111 <i>Laboratoire II</i> TRAD 4XYZ <i>Analyse du discours I</i> TRAD 4YYZ <i>Analyse du discours II</i> TRAD 4*** <i>Théorie de la traduction</i> AAB	TRAD 3271 <i>General Translation</i> TRAD 4371 <i>Specialized Translation</i> TRAD 4231 <i>Translation in the Social Sciences</i> TRAD 4241 <i>Legal Translation</i> TRAD 4251 <i>Literary Translation</i> TRAD 4271 <i>Scientific and Technical Translation</i> TRAD 4061 <i>Terminologie appliquée*</i> TRAD 4261 <i>Initiation à l'interprétation</i>

### Comments for the various committees responsible for approving or rejecting courses and programs

This program is new only for CUSB (as explained in the introduction).

No new teaching staff and no specific financing are required: all necessary resources are already available, as these two majors already exist.

The program aims to improve service to students by putting to best use courses already in place at CUSB.

### Document approved by the two departments

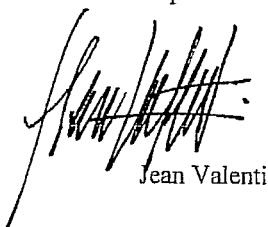
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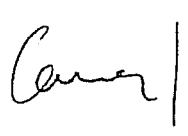
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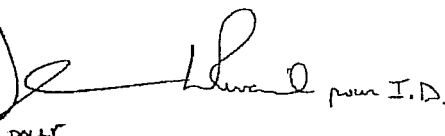
Department of French (Français)

School of Translation

Dean

  
Jean Valenti

  
Moses Nyongwa

 pour I.D.  
Ibrahima Diallo

## History of Art General Major

Program modification:

The deletion of FAAH 3210 Introduction to the Theory and Criticism of Art (3) and increase from 6 to 9 credit hours from List A or List B.

9.3.2 History of Art			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>GENERAL MAJOR TOTAL: 30 CREDIT HOURS</b>			
6 credit hours from FAAH 1030, FAAH 1040, FAAH 1050 or FAAH 1060	<ul style="list-style-type: none"><li>• FA 1990</li><li>• 12 credit hours from List A</li><li>• FAAH 3260 or FAAH 3270</li><li>• <del>FAAH 3210</del></li><li>• FAAH 3440</li><li>• <u>6-9</u> credit hours from either List A or List B</li></ul>		

## Mathematics Advanced Major Program

Program modification:

To reflect course changes made by the Mathematics department, MATH 2200 Sets and Real Numbers will be deleted from the program and replaced with MATH 2XX2 Fundamentals of Mathematical Analysis (which will be numbered MATH 2202).

### - Revisions to the Advanced Major Program

Added material

~~Deleted material~~

9.5.1 Mathematics, Department Code: 136			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>ADVANCED MAJOR TOTAL: 48 CREDIT HOURS</b>			
<ul style="list-style-type: none"><li>• one of MATH 1500, MATH 1510, MATH 1520, MATH 1530</li><li>• one of MATH 1700, MATH 1710, MATH 1730; or MATH 1690</li><li>• one of MATH 1300, MATH 1310</li></ul>	<ul style="list-style-type: none"><li>• MATH 2300, MATH 2600<sup>1</sup> or MATH 2800, MATH 2720<sup>2</sup> and MATH 2730<sup>2</sup></li></ul>	<ul style="list-style-type: none"><li>• MATH 3300, MATH 3310, MATH 3740</li><li>• 15 credit hours from <del>MATH 2200</del>, <u>MATH 2XX2</u>, MATH 2400, MATH 2450, MATH 2500, MATH 2550, MATH 2600<sup>1</sup>, MATH 2800, or any 3000 or 4000 level Mathematics course</li></ul>	
<b>NOTES:</b>			
<sup>1</sup> MATH 2600 has a prerequisite of COMP 1010			
<sup>2</sup> MATH 2750 may be substituted for MATH 2720 and MATH 2730			
For entry to either Major In Mathematics, the prerequisite is a grade of "C+" or better in six hours of Mathematics courses taken.			
For entry to the Minor In Mathematics, the prerequisite is a grade of "C" or better in six hours of Mathematics courses taken.			
A detailed listing of courses in the Department of Mathematics is available in the Calendar entries of the Faculty of Science.			
Equivalent Honours courses may sometimes be substituted for the courses listed above. In this way, a Major degree can be considerably strengthened. For more detailed advice students should talk to a faculty member in the department.			

Minors in the Clayton H. Riddell Faculty of Environment, Earth and Resources

Program modification:

Expansion of the minors available that can be used to satisfy the Faculty of Arts requirement of a minor to include: Environmental Studies and Physical Geography.

Bachelor of Environmental Studies			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
MINOR 18 CREDIT HOURS			
ENVR 1000, ENVR 2000,	12 credit hours of ENVR courses number at the 2000-level or above.		

5.5 B.Sc. Physical Geography			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
MINOR 18 CREDIT HOURS			
GEOG 1290 <sup>a</sup> (or GEOG 1200)	15 credit hours selected from 2000-, 3000-, or 4000-level courses designated as Physical Geography (PS) or Techniques (TS) courses in the Geography course descriptions defined in sections 5.6 in this Chapter.		

### 5.6 Systematic Courses (HS, PS, TS) and Area Studies (A)

Courses numbered at the 2000- and 3000-levels are arranged into Systematics (PS, HS and TS), and Area Studies (A). B.A. Geography students may specialize in the Physical Geography (designated by (PS) after the title in the descriptions below); Human Geography (HS); Techniques (TS); Area Studies (A) but it is not compulsory for them to do so. B.A. Geography students wishing to specialize in Physical Geography should take at least three options (18 credit hours) from courses designated 'PS'. B.A. Geography students wishing to specialize in Human Geography should take at least three options (18 credit hours) from courses designated 'HS'. Students should discuss these options with the Faculty student advisor.

B.A. Geography students wishing to specialize in Applied Geography should include 2000-level courses from GEOG 2200, GEOG 2210, GEOG 2250, GEOG 2310, GEOG 2410, GEOG 2440, GEOG 2480, GEOG 2510, GEOG 2520, GEOG 2530 and GEOG 2620; and 3000-level courses from GEOG 3200, GEOG 3320, GEOG 3360, GEOG 3460, GEOG 3480W, GEOG 3510, GEOG 3520, GEOG 3540, GEOG 3580W, GEOG 3680M, GEOG 3710, GEOG 3720 and GEOG 3800.

Physical Geography (PS)		
GEOG 2300	Atmosphere, Thermodynamics, Clouds and Precipitation	3
GEOG 2310	Introduction to Process Hydrology	3
GEOG 2440	Geography of Natural Hazards	6
GEOG 2540	Weather and Climate	3
GEOG 2541	Météorologie et climatologie	3
GEOG 2550	Geomorphology	3
GEOG 2551	Géomorphologie	3
GEOG 2620	Geography of Environmental Changes	3
GEOG 3310	Atmospheric Dynamics, Storms and Radar	3
GEOG 3320	Introduction to Microclimates and Micrometeorology	3
GEOG 3411	Géographie de l'eau	3
GEOG 3580W	Landforms	6
Techniques (TS)		
GEOG 2200	Introduction to Thematic Cartography	3L
GEOG 2221	Introduction à la cartographie et analyse de la carte numérique	6
GEOG 2250	Introduction to Geographic Information Systems	3L
GEOG 2530	Introduction to Scientific Geographic Research	3
GEOG 3200	Introduction to Remote Sensing	3L
GEOG 3680M	Research Methods in Geography	6
GEOG 3730	Geographic Information Systems	3L
GEOG 3740	Field Studies in Geography	6
GEOG 3750	Field Studies in Geography	3

## Faculty of Dentistry and School of Dental Hygiene

### Dental Diagnostic and Surgical Science

#### Course modifications:

DDSS 1020 Periodontology Cr.Hrs. 6

(formerly 103.102) A course designed to introduce students to periodontal examination procedures and to basic periodontal instrumentation.

DDSS 1140 Radiology 1 Cr.Hrs. 6

(formerly 103.114) A series of lectures which introduces the student to: the elementary principles of dental radiology; radiation physics, radiation biology, imaging techniques, x-ray equipment, radiation protection.

DDSS 2010 Oral Pathology Cr.Hrs. 6

(formerly 103.201) 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.

DDSS 2020 Pain and Anxiety Control Cr.Hrs. 6

(formerly 103.202) A series of lectures to introduce the student to: local anesthetics, local anesthesia techniques, avoidance and management of complications and selection of appropriate drugs and techniques.

DDSS 2120 Periodontology Cr.Hrs. 6

(formerly 103.212) 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.

DDSS 2180 Radiology 2 Cr.Hrs. 6

(formerly 103.218) A series of lectures in the theoretical and practical principles of radiographic interpretation of common oral pathologic conditions as well as selected examples of pathologic conditions exhibiting important radiographic principles.

DDSS 3030 Medicine Cr.Hrs. 6

(formerly 103.303) Lectures or seminars describing the basic mechanisms, symptoms, diagnosis, and management of various disease processes included in internal medicine and their dental correlations.

DDSS 3200 Oral Diagnosis and Radiology Cr.Hrs. 6

(formerly 103.320) This course includes a lecture component covering history-taking, clinical examination, diagnosis and treatment of soft and hard tissue lesions, emergency treatment, dental treatment of patients with systemic disease, and clinical experience.

DDSS 3210 Oral and Maxillofacial Surgery Cr.Hrs. 6

(formerly 103.321) This course consists of lectures, seminars and clinics, covering all aspects of oral and maxillofacial surgery with an emphasis on those procedures performed by the general practitioner.

DDSS 3220 Periodontology Cr.Hrs. 6

(formerly 103.322) This combined didactic and clinical course is designed to provide experience which will allow students to apply their earlier and current didactic learning to the clinical environment. The lecture periods concern themselves principally with verbal descriptions of treatment modalities and techniques, including non-surgical, surgical intervention and temporomandibular joint problems.

DDSS 3230 Pain and Anxiety Control Cr.Hrs. 6

(formerly 103.323) This course consists of lectures/seminars and clinical experience in: physiology of pain and psychology of anxiety, management of medical emergencies, parenteral injections, and therapeutics of the various modalities of pain and anxiety control.

**DDSS 4080 Psychiatry Cr.Hrs. 6**

(formerly 103.408) This course is a series of lectures covering: consideration of personality development, the measurement of intelligence, ego defenses, normal and abnormal psychodynamics, psychological problems which initiate and sustain dental pathology, and handling practice psychiatry problems in dental practice.

**DDSS 4130 Hospital Dentistry Cr.Hrs. 6**

(formerly 103.413) This course is designed to provide the student with a familiarization with hospital protocol, reinforcement of understanding in medicine, surgery, pharmacology and therapeutics, the dental treatment of medically compromised patients at the Health sciences Centre, and handicapped patients in other institutional settings. Course evaluated on a pass/fail basis.

**DDSS 4200 Oral Diagnosis and Radiology Cr.Hrs. 6**

(formerly 103.420) This clinical course is designed to give the student clinical experience with: treatment planning, diagnostic techniques, differential diagnosis, emergency treatment and non-surgical management related to oral pathologic conditions.

**DDSS 4210 Oral and Maxillofacial Surgery Cr.Hrs. 6**

(formerly 103.421) This course consists of lectures, seminars and clinics covering all aspects of oral and maxillofacial surgery with an emphasis on those procedures performed by the general practitioner.

**NET CHANGE IN CREDIT HOURS:**

**+0 HOURS**

Dentistry

Course modifications:

**DENT 1010 Early Clinical Experience Cr.Hrs. 6**

(formerly 066.101) A series of lectures and clinical participation sessions designed to introduce the student to clinical dentistry and the relevance of basic science courses in the dental curriculum. Course evaluated on a pass/fail basis.

**DENT 2430 Introduction to Comprehensive Care Cr.Hrs. 6**

(formerly 066.243) 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.

**DENT 4020 Interdisciplinary Case Studies Cr.Hrs. 6**

(formerly 066.402) Lectures and development of portfolio case designed to enable the student to obtain, organize and critically evaluate information in order to facilitate treatment planning.

**DENT 4030 General Practice Clinic Cr.Hrs. 30**

(formerly 066.403) This course consists of an integrated, patient-centred clinical program with patient needs as the primary focus. Patients will be assigned to students and organized to provide the required clinical experiences typical of a contemporary general dental practice.

**NET CHANGE IN CREDIT HOURS:**

**+0 HOURS**

## Oral Biology

### Course modifications:

#### ORLB 1050 Cell and Tissue Biology Cr.Hrs. 6

(formerly 100.105) Structure, function and chemical composition of eukaryotic cells and bacteria will be studied. Molecular interactions within and between cells and the immune system will be described in detail.

#### ORLB 1060 Head, Neck and Nervous System, Part I Cr.Hrs. 6

(formerly 100.106) Gross anatomy of the head and neck described and observed by regional dissection. Overviews of the nervous system and surface anatomy of the mouth are included.

#### ORLB 1070 Head, Neck and Nervous System, Part II Cr.Hrs. 6

(formerly 100.107) An introduction to the structure and function of the central and peripheral nervous systems and associated structures, the neurophysiology and the stomatognathic system, pain and analgesics.

#### ORLB 1080 Human Growth and Development Cr.Hrs. 6

(formerly 100.108) Human development from the origin of the reproductive cells through fertilization, conception, embryonic/fetal development, birth, growth and aging. Particular emphasis is given to development and growth of structures of the head and neck.

#### ORLB 1090 Development, Structure and Function of Oral Tissues Cr.Hrs. 6

(formerly 100.109) A study of development, structure and function of hard and soft oral tissues, the role of organic constituents in them, and their importance to the practice of dentistry.

#### ORLB 2070 Structure and Function of Major Organ Systems Cr.Hrs. 6

(formerly 100.207) 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.

#### ORLB 2090 Cariology and Plaque Associated Diseases Cr.Hrs. 6

(formerly 100.209) 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.

#### ORLB 2100 Pathology and Microbiology I Cr.Hrs. 6

(formerly 100.210) 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.

#### ORLB 2150 Nutrition in Dentistry Cr.Hrs. 6

(formerly 100.215) This course covers the role of nutrition in general health and disease with emphasis on the prevention and management of oral problems in Dentistry.

#### ORLB 3020 Pathology and Microbiology Cr.Hrs. 6

(formerly 100.302) A study of selected infectious diseases and the application of general diagnostic pathology to dental practice.

#### ORLB 3060 Pharmacology and Dental Therapeutics Cr.Hrs. 6

(formerly 100.306) A discussion of the basic pharmacology of dental and medical therapeutic agents, their therapeutic uses and adverse effects and potential impact on the treatment of dental patients.



**NET CHANGE IN CREDIT HOURS:**

**+0 HOURS**

Preventative Dental Science

Course modifications:

PDSD 1020 Orthodontics 1 Cr.Hrs. 6

(formerly 100.102) A series of seminars and tutorials designed to introduce the student to: growth and development of craniofacial structures, relationship of craniofacial growth to general body growth, cephalometric and facial analysis, etiology and classification of malocclusion, development of the dentition and preliminary wire bending and manipulation in orthodontics.

PDSD 2020 Orthodontics 2 Cr.Hrs. 6

(formerly 101.202) 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.

PDSD 2070 Pediatric Dentistry 1 Cr.Hrs. 6

(formerly 101.207) 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.

PDSD 2130 Dental Public Health Cr.Hrs. 6

(formerly 101.213) 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.

PDSD 3040 Orthodontics 3 Cr.Hrs. 6

(formerly 101.304) A series of seminars covering the analysis, diagnosis, treatment planning, and mechanotherapy using records of selected cases. The clinical component consists of the diagnosis and treatment planning for individuals seeking orthodontic treatment. The clinical experience includes exposure to removable and fixed appliance mechanotherapy, screening of patients seeking orthodontic care and follow-up of retention of completed cases.

PDSD 3050 Pediatric Dentistry 2 Cr.Hrs. 6

(formerly 101.305) A series of seminars and clinics to give the student a basic understanding and some clinical experience with: clinical procedures, emergency treatment, psychological management, preventive medical considerations and the provision of total dental care to pediatric patients.

PDSD 3140 Dental Public Health and Preventive Dental Science Cr.Hrs. 6

(formerly 101.314) (a) Dental Public Health. This course focuses on the social and psychological variables that impact on dental care for specific age and disease-related issues in the population. Patient utilization rates and program organization are reviewed. (b) Preventive Dental Science. Techniques and therapy used to prevent dental diseases are covered. The application of these modalities to specific patient categories follows.

**PDSD 4050 Pediatric Dentistry 3 Cr.Hrs. 6**

(formerly 101.405) This course consists of clinical experience including exposure to common pediatric dentistry problems, caries preventive and control procedures, routine conservative procedures and the dental treatment of children in community-based clinics.

**PDSD 4060 Orthodontics 4 Cr.Hrs. 6**

(formerly 101.406) This course consists of seminars on special topics related to the provision of orthodontic therapy. In addition, the clinical component including the diagnosis and treatment planning for individuals seeking orthodontic treatment as well as the continuation of treatment commenced in PDSD 3040 (or 101.304). Clinical seminars cover the analysis, diagnosis, treatment planning, mechanotherapy and post-treatment evaluation of previously treated cases.

**PDSD 4080 Community Dentistry Externship Cr.Hrs. 6**

(formerly 101.408) This clinical program is centred in community clinics in Winnipeg and northern Manitoba. The clinics serve elderly, aboriginal, low income or northern patients. Health education seminars may be a requirement at some sites, prepared and delivered by the student interns. Course evaluated on a pass/fail basis.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

Restorative Dentistry

Course modifications:

**RSTD 1070 Dental Materials 1 Cr.Hrs. 6**

(formerly 102.107) This course introduces the materials commonly used in dental practice. Composition, chemistry, properties, manipulation and manipulative variables are covered by lecture, laboratory exercises and demonstrations.

**RSTD 1100 Operative Dentistry 1 Cr.Hrs. 6**

(formerly 102.110) A lecture and laboratory course introducing the fundamentals of tooth restoration. Hand and rotary instrumentation, principles of tooth preparation and restoration with amalgam, inlays and composite resin.

**RSTD 1110 Dental Anatomy and Occlusion Cr.Hrs. 6**

(formerly 102.111) A lecture and laboratory/seminar course introducing dental terminology, tooth identification, dental morphology and comparative anatomy in first term and the relationships of morphology to functional occlusion in second term.

**RSTD 1120 Introduction to Dentistry Cr.Hrs. 6**

(formerly 102.112) A series of lectures and seminars which introduce the student to the profession, its structure and governance. As well, communication skills and professional ethics will be introduced. Students will also experience the practice of dentistry through field trips and student presentations. Course evaluated on a pass/fail basis.

**RSTD 2020 Dental Materials 2 Cr.Hrs. 6**

(formerly 102.202) 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.

RSTD 2050 Operative Dentistry 2 Cr.Hrs. 6

(formerly 102.205) 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.

RSTD 2060 Endodontology 1 Cr.Hrs. 6

(formerly 102.206) 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.

RSTD 2140 Fixed Partial Denture Prosthodontics 1 Cr.Hrs. 6

(formerly 102.214) This course consists of lecture and laboratory instruction introducing basic fixed prosthodontic techniques.

RSTD 2220 Removable Partial Denture Prosthodontics Cr.Hrs. 6

(formerly 102.222) 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.

RSTD 4160 Dental Jurisprudence Cr.Hrs. 6

(formerly 102.416) This course provides an overview of the Canadian legal system. It defines and discusses legal concepts relevant to dentistry including issues in negligence, contracts, confidentiality, business and human rights. Identifying a dentist's legal responsibilities.

RSTD 2230 Complete Denture Prosthodontics Cr.Hrs. 6

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.

RSTD 3020 Operative Dentistry 3 Cr.Hrs. 6

(formerly 102.302) A lecture and clinical course emphasizing diagnosis, treatment planning and the application of fundamental principles of operative and esthetic dentistry. Lectures and clinical treatments dealing with current restorative materials and techniques.

RSTD 3040 Fixed Partial Denture Prosthodontics 2 Cr.Hrs. 6

(formerly 102.304) An introduction to the clinical practice of fixed prosthodontic techniques. An emphasis is placed on diagnosis and treatment-planning. Clinical exposure is supplemented by lecture materials.

RSTD 3050 Endodontology 2 Cr.Hrs. 6

(formerly 102.305) This course emphasizes the rationale and biologic basis for the practical techniques previously taught. Techniques are discussed in greater detail and are applied to treatment of patients. The second part of the course deals with pulp biology and periapical pathology to prepare the student for understanding the rationale behind pulpal protection, prevention and treatment of pulpal disease. Laboratory exercises are performed on more complex root canal systems in preparation for General Practice Clinic.

RSTD 3090 Complete and Removable Partial Denture Prosthesis Cr.Hrs. 6

(formerly 102.309) This course consists of a series of lectures and clinics. Theories of applied prosthodontics and discussed and applications of this knowledge are made concurrently through the clinical treatment of patients.

RSTD 4060 Endodontic Seminars Cr.Hrs. 6

(formerly 102.406) Seminars designed to enhance the clinical endodontics experience with endodontic literature review of diagnosis, more complex treatment methods and materials, case selection and student evidence-based literature and case presentations.

RSTD 4170 Practice Management Cr.Hrs. 6

(formerly 102.417) The management, evaluation, economics, organization, design, location, selection and marketing of a dental practice are covered by lectures and seminars. In addition, ethical considerations of dental practice, the options available to new dental graduates and the role of professional associations are discussed.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

School of Dental Hygiene

Course modifications:

HYGN 1232 Oral and Dental Anatomy Cr.Hrs. 3

This course consists of a self-study CD and laboratory work dealing with the normal development, morphology, structure, and function of the dentition and related structures. Corequisites: HYGN 1234 and HYGN 1236.

HYGN 1238 Dental Hygiene Clinical Practice 1 Cr.Hrs. 3

The course focus is on the cognitive, psychomotor and affective knowledge and skills requisite to the dental hygiene process of care. It includes the principles underlying the practice of dental hygiene and facilitates the development of a self-directed and self-aware professional. Prerequisites: HYGN 1234 and HYGN 1236. Corequisite: HYGN 1242.

HYGN 1242 Dental Hygiene Theory and Practice II Cr.Hrs. 4

A continuation of foundational knowledge requisite for clinical care on less complicated clients that includes the theory and principles underlying the practice of dental hygiene based on the Dental Hygiene Process of Care. Prerequisites: HYGN 1234 and HYGN 1236. Corequisite: HYGN 1238.

HYGN 1262 Dental Radiology Cr.Hrs. 3

An introduction to the production of x-rays, radiation biology, radiation protecting, imaging materials, imaging techniques, recognition of radiographic landmarks and structures, and quality control of radiographs. Corequisites: HYGN 1234 and HYGN 1238

HYGN 1270 Biology of the Head and Neck Cr.Hrs. 3

(formerly 070.127) Anatomy, physiology, histology and embryology of the head and neck.

HYGN 1280 Microbiology and Infectious Diseases Cr.Hrs. 3

(formerly 070.128) A study of different types of microorganisms. Infectious diseases will be discussed in terms of reservoirs, transmission, pathogenesis, treatment and prevention. Emphasis will be given to common communicable diseases, the oral microflora and its role in disease and health.

HYGN 1292 Dental Hygiene Preclinical Restorative Techniques Cr.Hrs. 2 A study of the principles and techniques of restorative dentistry. Introduction information on restorative dentistry specialties. Corequisite: HYGN 1320.

**HYGN 1320 Dental Materials Cr.Hrs. 2**

(formerly 070.132) A study of the properties of materials used in the oral environment for restorative, prosthetic, orthodontic and preventive purposes. Laboratory demonstrations and exercises are designed to demonstrate the correct preparation and handling of dental materials.

**HYGN 1352 Community Health 1 Cr.Hrs. 3**

An introductory, participatory course in community oral health promotion intended to inspire a sense of community responsibility in students as health professionals responding to community needs through classroom teaching, interviews and debates.

**HYGN 1360 Periodontology 1 Cr.Hrs. 2**

(formerly 070.136) A study of the normal tissues of periodontium, and an introduction to periodontal diseases, their etiology, epidemiology and treatment, especially as these relate to dental hygiene practice. A critical analysis of periodontal cases is included.

**HYGN 2280 Pharmacology Cr.Hrs. 2**

(formerly 070.228) Drugs used in clinical practice; a general knowledge of drugs by groups with emphasis on agents such as local anesthetic, analgesics, and antibiotics used extensively in the practice of dentistry.

**HYGN 2300 Pathology Cr.Hrs. 3**

(formerly 070.230) A study of the principles of general and oral pathology involving pathologic mechanisms, disorders of physiologic systems, and pathologic conditions and diseases affecting oral and para-oral structures.

**HYGN 2340 Periodontology II Cr.Hrs. 2**

(formerly 070.234) Continuation of the study of etiology, diagnosis and treatment of periodontal disease.

**HYGN 2350 Biology of Oral Tissues Cr.Hrs. 2**

(formerly 070.235) Consideration of physiology of the oral environment and its microflora in relation to health, dental caries and periodontal diseases.

**HYGN 2362 Community Health II Cr.Hrs. 3**

Student abilities to deliver community oral health education/promotion programs with attention given to the barriers and strategies used to meet the unique needs of target populations less likely to have optimal oral health are further developed. Prerequisite: HYGN 1352.

**HYGN 2370 Nutrition in Dentistry Cr.Hrs. 2**

(formerly 070.237) A physiological, psychological, and social insight into the principles of nutrition and their relation to preventive dental practice.

**HYGN 2380 Pain Management Cr.Hrs. 2**

(formerly 070.238) This course is designed to enhance the dental hygiene student's knowledge of the mechanisms of pain control through the administration of topical and local anesthetic agents. Emphasis will be placed on the pharmacology of dental anesthetic agents and their interaction with the client's current conditions and medications.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

## **Faculty of Education**

Course modification:

EDUA 5680 Promoting Responsible Behaviour in Educational Settings Cr.Hrs. 3  
(formerly 129.568) The course is designed to provide teachers with an understanding of the needs of children who display maladaptive behaviours in a school setting. Conceptualization of behaviour disorders, identification/assessment procedures, and intervention strategies will be studied. The purpose of the course is to enable teachers to generate intervention strategies which are appropriate in an educational setting. Not to be held with the former 043.542.

**NET CHANGE IN CREDIT HOURS**

**0 HOURS**

Students who successfully complete course 98592 Special Topics through the Certificate in Teaching English as a Second Language (CTESL) Program receive transfer credit for the parallel courses offered under EDUB 1840 Recent Developments in CTL 1. (eg. TESL Literacy, Adult ESL, Canadian Language Benchmarks).

## **Faculty of Engineering**

### **Biosystems Engineering**

Course introductions:

BIOE 4416 Topics in Biosystems Engineering Cr.Hrs. 3 +3

This course will cover contemporary topics in Biosystems Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session when the course will be offered. Prerequisite: permission of the department.

BIOE 4640 Bioengineering Applications in Medicine Cr.Hrs. 4 +4

This course surveys bioengineering applications and medicine from a clinical engineering perspective. Topics include: clinical engineering practice, device development legislation, biomedical sensors, biosensors, biomaterials and biocompatibility, as well as the principles of and design for medical imaging equipment. Prerequisites: ZOOL 1320, ZOOL 1330 and BIOE 3320.

Course modifications:

BIOE 4240 Graduation Project Cr.Hrs. 3

Either an independent or a directed study including at least one of: a comprehensive literature review, an experimental research project, or an engineering design problem. The project is to be concluded by a formal report of thesis. Prerequisites: BIOE 3580 (or 034.358) or approval of department.

BIOE 4610 Design of Assistive Technologies Cr.Hrs.4 (Lab required)

Application and design of technology for individuals with disabilities; emphasizing the development of the requisite knowledge, skills, and attitudes to evaluate, design, and implement client-centred assistive technology. A multi-disciplinary approach to learning and applying knowledge will be emphasized with engineering and medical rehabilitation students collaborating on a design project. Prerequisite: ZOOL 1330.

**NET CHANGE IN CREDIT HOURS**

**+7 HOURS**

## Civil Engineering

Course deletion:

CIVL 2760 Introduction to Environmental Engineering -5

**NET CHANGE IN CREDIT HOURS -5 HOURS**

## Electrical and Computer Engineering

Course introduction:

ECE 3540 Advanced Circuit Analysis and Design Cr.Hrs. 4 (Lab required) +4

Application of the Laplace Transform in the analysis of linear time-invariant networks, poles, zeros and frequency response; natural frequencies; general network theorems; two ports; energy and passivity; transmission lines; time and frequency domain. Prerequisites: ECE 2262 (or ECE 2260) and MATH 3132 (or MATH 3100).

Course modifications:

ECE 2130 Electric Fields Cr.Hrs. 4 (Lab required)  
Fundamental laws of field theory; Maxwell's equations in integral and point form. Pre- or corequisite: MATH 3132 (or Math 3100).

ECE 2160 Electronics 2E Cr.Hrs. 5 (Lab required)  
Characteristics of integrated circuits and transistors; design of DC and AC amplifiers in the steady state. Prerequisite: ECE 2262.

ECE 2262 Electric Circuits Cr.Hrs 4 (Lab required)  
The application of circuit concepts; network theorems and formal methods, steady state analysis, frequency and transient response, application of the Laplace transform in the analysis of linear time-invariant networks. Not to be held with the former ECE 2260. Prerequisite: ENG 1450 (or 130.118). Pre or corequisite: MATH 2132 (or both MATH 2100 and MATH 2110).

ECE 3600 Physical Electronics Cr.Hrs. 4 (Lab required)  
Basic solid state theory; properties of semi-conductors; principles of metal-semiconductor junctions, p-n junctions and transistors; optoelectronic processes. Prerequisites: PHYS 2152 (or PHYS 1070), MATH 3132 (or MATH 3100), and ECE 3670.

ECE 3720 Electric Power and Machines Cr.Hrs. 4 (Lab required)  
Principles and applications of electric power, energy conversion and machines. Prerequisite: ECE 2262.

ECE 3780 Signal Processing 1 Cr.Hrs. 4 (Lab required)  
Introduction to signals and systems; spectral analysis (Fourier Series) of continuous-time periodic signals; spectral analysis of aperiodic signals (Fourier Transform); the impulse response and convolution operator; frequency analysis of linear time-invariant systems; applications to filtering, communication systems, and biological systems; A/D conversion; sampling. Laboratory periods will be used to give students hands-on experience in programming many of the techniques covered in the

theoretical parts of the course. Prerequisites: ECE 2262 (or ECE 2260) and MATH 3132 (or MATH 3100).

ECE 3790 Engineering Algorithms Cr.Hrs. 4 (Lab required)

Numerical algorithms, optimization, statistical description of data random number generation, string processing, geometric algorithms, algorithm machines, dynamic programming and NP complete problems. Prerequisite: COMP 2140 (or 074.214). Pre or corequisite: MATH 3132 (or MATH 3100). May not be held with the former 24.451.

**NET CHANGE IN CREDIT HOURS**

**+4 HOURS**

MATH 3120 and MATH 3110 will be deleted from the Electrical and Computer Engineering program and be replaced by MATH 3140.

In Year 4 of the program, the number of technical electives will be decreased from 5 required to 4 required; there will be an additional requirement in Year 4 of one course from the following list of approved Science courses: PHYS 2250 Introductory Modern Physics, PHYS 3220 Medical Physics and Physiological Measurement, CHEM 1310 University 1 Chemistry: An Introduction to Physical Chemistry, CHEM 1320 University 1 Chemistry: An Introduction to Organic Chemistry, BIOL 1020 Biology 1: Principles and Themes, ZOOL 1320 Anatomy of the Human Body, GEOL 1340 The Dynamic Earth, or GEOL 2250 Geology for Engineers.

Engineering

Course introductions:

ENG 2020 Engineering CAD Technology for Biosystems Cr.Hrs. 2

+2

Instruction in the use of current CAD technology for conveying design through the use of graphics. Students will gain knowledge in technical drawing, 3D modeling techniques, production technology, and visual communication. Prerequisite: BIOE 2580.

ENG 4011 Practicing Professional Engineering in Manitoba Cr.Hrs. 3

+3

An introduction to the practice of professional engineering in Manitoba, including culture, professional organization and regulation, employability aspects, engineering ethics and law. Prerequisite: Must be enrolled in the Internationally-Educated Engineers Qualification Program (IEEQ).

**NET CHANGE IN CREDIT HOURS**

**+5 HOURS**

Mechanical Engineering

Course introductions:

MECH 2010 Computer Aided Graphics for Mechanical and Manufacturing Engineering +2

Cr.Hrs. 2 Computer aided graphics for Mechanical and Manufacturing Engineering. This course will provide the students with essential skills to understand the theory and application of engineering graphics package. It will provide required training to produce and communicate engineering drawings. AUTOCAD will be the medium of instruction. The course will be delivered through a combination of lectures and practical sessions.



MECH 4310 Contemporary Topics in Mechanical Engineering 1 Cr.Hrs.4 +4  
 This course will cover contemporary topics in Mechanical Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session when the course will be offered. Prerequisite: permission of the department.

MECH 4320 Contemporary Topics in Mechanical Engineering 2 Cr.Hrs. 3 +3  
 This course will cover contemporary topics in Mechanical Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session when the course will be offered. Prerequisite: permission of the department.

MECH 4330 Contemporary Topics in Manufacturing Engineering 1 Cr. Hrs.4 +4  
 This course will cover contemporary topics in Manufacturing Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session when the course will be offered. Prerequisite: permission of the department.

MECH 4340 Contemporary Topics in Manufacturing Engineering 2 Cr.Hrs. 3 +3  
 This course will cover contemporary topics in Manufacturing Engineering. The specific topics and a detailed outline will be available at the time of registration prior to the start of the registration period for the session when the course will be offered. Prerequisite: permission of the department.

**NET CHANGE IN CREDIT HOURS +16 HOURS**

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

Geological Sciences

Course deletions:

GEOL 1350 The Evolving Earth	-3
GEOL 1360 Environmental Earth Science	-3
GEOL 1370 The Earth in Space	-3
GEOL 1440 Introduction to the Dynamic Earth	-3

Course introductions:

GEOL 1400 Time-Trekker's Travelog: Our Evolving Earth Cr.Hrs. 3 +3  
 Take a trip across billions of years, as we explore awesome times in the evolution of our planet and its life – from dust to us! Not to be held with the former GEOL 1350 (007.135) or 007.123.

GEOL 1410 Natural Disasters and Global Change Cr.Hrs. 3 +3  
 Discover how and when natural disasters occur, and how to identify and recognize them. Explore the Earth processes that lead to natural disasters and global change. Not to be held with the former GEOL 1360 (007.136).

GEOL 1420 Exploring the Planets Cr.Hrs. 3 +3  
 Discover the Solar System as we explore ancient ideas and modern concepts. Emphasis will be on recent space exploration and a comparison of the Earth and its neighbours. Not to be held with the former GEOL 1370 (007.137) or 007.124.

Course modifications:

**GEOL 2570 Energy and Mineral Resources Cr.Hrs. 3**

(formerly 007.257) An introduction to the geological factors and processes responsible for the origin, concentration and distribution of fuels, geothermal resources, metallic and nonmetallic minerals.

Available by correspondence only. Not for credit in a Major or Honours program in Geological Sciences. Prerequisite: Any university-level Geology course or permission of department.

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

Program modifications:

Changes to the course/grade requirements for entry to Geological Sciences programs are proposed from those listed in Table 1 below to those in Table 2. Students will now require a minimum grade in GEOL 1340 The Dynamic Earth (with labs) for entry and three credit hours from GEOL 1400 Time-Trekker's Travelog: Our Evolving Earth, GEOL 1410 Natural Disasters and Global Change, or GEOL 1420 Exploring the Planets recommended but not required for entry.

Table 1. Current Geological Sciences Entry and Continuation Requirements

	Minimum Degree Grade Point Average	Additional Entry and Continuation Requirements
Major (Geology)	2.00	GEOL 1340 or GEOL 1440 and one of: GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "C+"
Major (Geophysics)	2.00	GEOL 1340 or GEOL 1440 and one of: GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "C+"
Honours (Geology)	3.00	GEOL 1340 or GEOL 1440 and one of: GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "B"
Honours (Geophysics)	2.80	GEOL 1340 or GEOL 1440 and one of: GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "B"
General (Geological Sciences)	2.00	GEOL 1340 or GEOL 1440 and one of: GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "C"

Table 2. Modifications to Geological Sciences Entry and Continuation Requirements

*The following chart will replace Table 1 above.*

	Minimum Degree Grade Point Average
Major (Geology)	2.00 <sup>1</sup>
Major (Geophysics)	2.00 <sup>1</sup>
Honours (Geology)	3.00 <sup>1</sup>
Honours (Geophysics)	2.80 <sup>1</sup>
General (Geological Sciences)	2.00 <sup>1</sup>

**NOTES:**

1. In addition to the minimum degree grade point average noted in this chart, specific courses (with minimum grades) are required for entry and these are noted in the program chart for each program.

<b>8.4 B.Sc. Geological Sciences (Geology)<sup>1,7</sup></b>			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS GEOLOGY 120 CREDIT HOURS</b>			
GEOL 1340(B) or GEOL 1110 and one of GEOL 1350, GEOL 1360, or GEOL 1370, GEOL 1401, GEOL 1410 or GEOL 1420 with a minimum average grade of "B" 6 credit hours from the Faculty of Arts	GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800, GEOL 2770, GEOL 3910 <sup>6</sup>	GEOL 2060, GEOL 3110, GEOL 3130, GEOL 3310, GEOL 3490, GEOL 3900, GEOL 4910 <sup>6</sup>  9 credit hours of Geological Sciences Electives from Lists A and B <sup>5</sup>	GEOL 4670, GEOL 4870  18 credit hours of Geological Sciences Electives from Lists A and B <sup>5</sup> not yet taken.
CHEM 1300, PHYS 1020 <sup>2</sup> , and one of MATH 1500 <sup>3</sup> or MATH 1300 <sup>4</sup> must be completed in University 1 or Year 2. It is recommended that students complete the W course in University 1 or Year 2.			
<b>MAJOR GEOLOGY 120 CREDIT HOURS</b>			
GEOL 1340(C) or GEOL 1110 and one of GEOL 1400, GEOL 1410 or GEOL 1420 <sup>8</sup> , GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum average grade of "C" 6 credit hours from the Faculty of Arts	GEOL 2440, GEOL 2500, GEOL 2520, GEOL 2530, GEOL 2800, GEOL 2770, GEOL 3910 <sup>6</sup>	GEOL 2060, GEOL 3110, GEOL 3130, GEOL 3310, GEOL 3490, GEOL 3900, GEOL 4910 <sup>6</sup>  3 credit hours of Geological Sciences Electives from Lists A and B <sup>5</sup>	GEOL 4670, GEOL 4920  15 credit hours of Geological Sciences Electives from Lists A and B <sup>5</sup> not yet taken
CHEM 1300, PHYS 1020 <sup>2</sup> , and one of MATH 1500 <sup>3</sup> or MATH 1300 <sup>4</sup> must be completed in University 1 or Year 2. It is recommended that students complete the W course in University 1 or Year 2.			
<b>Notes:</b> <sup>1</sup> The courses required in this program will satisfy the University mathematics requirement. <sup>2</sup> PHYS 1050 may be used in lieu of PHYS 1020. <sup>3</sup> MATH 1510, MATH 1520 or MATH 1530 may be used in lieu of MATH 1500. <sup>4</sup> MATH 1310 may be used in lieu of MATH 1300. <sup>5</sup> Among the Geological Sciences Electives, all students must complete at least 12 credit hours from List A. In addition, Honours students must complete at least 15 credit hours from List B; Major students must complete at least 6 credit hours from List B. NOTE: With departmental approval, students may substitute 6 credit hours of 2000-level or higher courses from other departments in order to satisfy professional registration requirements. See Other, Note 1 below. <sup>6</sup> Students will register for GEOL 3910 and GEOL 4910 in Summer I or Summer II. Students should be aware that they are expected to contribute to transportation and accommodation costs. See the departmental office at the beginning of each year for information. <sup>7</sup> IMPORTANT: The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. (Letters in brackets indicate the minimum prerequisite standing required for further study). <sup>8</sup> Students who have GEOL 1440 (007, 144) or the former 007, 124 should consult with the department. At the discretion of the department, GEOL 1440 (007, 144) or 007, 124 may be permitted in lieu of GEOL 1440 for entry. One of GEOL 1400, GEOL 1410, GEOL 1420 is highly recommended to be taken in Year 1, but will not be considered when assessing entry requirements to the programs. If this requirement is not fulfilled in Year 1, it must be completed by the end of Year 2. GEOL 1440 or the former 007, 124 is recommended for student wishing to take any Geological Sciences program. The course contains a lab component, which will ease the student's transition to advanced-level courses.			
<b>NOTES:</b> • To fulfil prerequisite requirements, a grade of "C" must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences. • All courses are not offered every year. The course schedule for the current academic session is available from the online calendar at <a href="http://www.umanitoba.ca/calendar">www.umanitoba.ca/calendar</a> . • Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the department general office. • Equivalent courses offered through Collège universitaire de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Collège universitaire de Saint-Boniface courses end in the number "1" (e.g. CHEM 1301).			

Proposed Program Chart B.Sc. Geological Sciences – Geophysics

8.5 B.Sc. Geological Sciences (Geophysics) <sup>4,5,7</sup>			
UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS GEOPHYSICS 121 CREDIT HOURS</b>			
<p>GEOLOGY 1340(B)<sup>4</sup> or GEOLOGY 1440(B) and one of: GEOLOGY 1400, GEOLOGY 1410 or GEOLOGY 1420; GEOLOGY 1350, GEOLOGY 1360, or GEOLOGY 1370(B)</p> <p>PHYS 1050(B) [or PHYS 1020(B+)], PHYS 1070(B), MATH 1210<sup>1</sup>(B), MATH 1510<sup>1</sup>(B), and MATH 1710<sup>1</sup>(B) [or MATH 1500(B) and MATH 1700(B)]</p> <p>Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course</p>	<p>GEOLOGY 2060, GEOLOGY 2440, GEOLOGY 2520, GEOLOGY 2530, GEOLOGY 2540</p> <p>PHYS 2390, PHYS 2490, MATH 2130<sup>2</sup>, MATH 2132<sup>2</sup>, COMP 1010</p>	<p>GEOLOGY 3130, GEOLOGY 3740, GEOLOGY 3810, GEOLOGY 4670, GEOLOGY 4740<sup>4</sup>, GEOLOGY 4810, GEOLOGY 4870, CHEM 1300, PHYS 2600, MATH 2120<sup>3</sup>,</p> <p>9 credit hours of Geological Sciences Geophysics Electives from List A, 6 credit hours of Geological Sciences Geophysics Electives from List P and 9 credit hours of Geological Sciences Geophysics Electives from List B.</p>	
30 Credit Hours	30 Credit Hours	61 Credit Hours for Year 3 and 4 <sup>3</sup>	
<b>MAJOR GEOPHYSICS 121 CREDIT HOURS</b>			
<p>GEOLOGY 1340(C+)<sup>4</sup> or GEOLOGY 1440(C+) and one of: GEOLOGY 1400, GEOLOGY 1410 or GEOLOGY 1420; GEOLOGY 1350, GEOLOGY 1360, or GEOLOGY 1370(C+)</p> <p>PHYS 1050(C+) [or PHYS 1020(B)], PHYS 1070(C), MATH 1210<sup>1</sup>, MATH 1510<sup>1</sup>(C+), and MATH 1710<sup>1</sup> (C) [or MATH 1500(C+) and MATH 1700(C)]</p> <p>6 credit hours from the Faculty of Arts, which should include the required "W" course</p>	<p>GEOLOGY 2060, GEOLOGY 2440, GEOLOGY 2520, GEOLOGY 2530, GEOLOGY 2540</p> <p>PHYS 2390, PHYS 2490, MATH 2130<sup>2</sup>, MATH 2132<sup>2</sup>, COMP 1010</p>	<p>GEOLOGY 3130, GEOLOGY 3740, GEOLOGY 3810, GEOLOGY 4670, GEOLOGY 4810, GEOLOGY 4920, CHEM 1300, PHYS 2600, MATH 2120<sup>3</sup>, GEOLOGY 4740<sup>4</sup></p> <p>6 credit hours of Geological Sciences Geophysics Electives from List A, 3 credit hours of Geological Sciences Geophysics Electives from List P and 6 credit hours of Geological Sciences Geophysics Electives from List B.</p>	
<p><b>NOTES:</b></p> <p><sup>1</sup>MATH 1690 may be taken in place of MATH 1500 or MATH 1510 and MATH 1700 or MATH 1710 and MATH 1300 may be taken in place of MATH 1210.</p> <p><sup>2</sup>MATH 2720 and MATH 2730 may be taken in place of MATH 2130 and MATH 2132. Students should note that MATH 1300 is a prerequisite to MATH 2720 and a corequisite to MATH 2730.</p> <p><sup>3</sup>MATH 2600 may be taken in place of MATH 2120</p> <p><sup>4</sup>GEOLOGY 4740 will normally be taken immediately following the spring examinations on or about May 1 and will continue for approximately three weeks. Registration will show as Summer Term.</p> <p><sup>5</sup>The courses required in this program satisfy the university mathematics requirement.</p> <p><sup>6</sup>Students who have GEOLOGY 1440 (007, 144) or the former 007, 124 should consult with the department. At the discretion of the department, GEOLOGY 1440 (007, 144) or 007, 124 may be permitted in lieu of GEOLOGY 1440 for entry.</p> <p>One of GEOLOGY 1400, GEOLOGY 1410, GEOLOGY 1420 is highly recommended to be taken in Year 1, but will not be considered when assessing entry requirements to the programs. If this requirement is not fulfilled in Year 1, it must be completed by the end of Year 2.</p> <p>GEOLOGY 1340 or the former 007+123 is recommended for students wishing to take any Geological Sciences program. The courses contain a lab component which will ease the student's transition to advanced-level courses.</p> <p><b>IMPORTANT:</b> The Honours and Major programs need not be completed in the manner prescribed in the chart above. The chart indicates one possible arrangement of the required courses and is meant to be a guide around which students can plan their program. (Letters in brackets indicate the minimum prerequisite standing required for further study).</p> <ul style="list-style-type: none"> <li>To fulfil prerequisite requirements, a grade of "C" must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences.</li> <li>All courses are not offered every year. The course schedule for the current academic session is available from the online calendar at <a href="http://www.umanitoba.ca/calendar">www.umanitoba.ca/calendar</a></li> <li>Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the department general office.</li> <li>Equivalent courses offered through Collège universitaire de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Collège universitaire de Saint-Boniface courses end in the number "1" (e.g. GEOG 12B1).</li> </ul>			

Proposed Program Chart B.Sc. Geological Sciences (General)

8.6 B.Sc. Geological Sciences (General)		
UNIVERSITY 1	YEAR 2	YEAR 3
GENERAL 90 CREDIT HOURS		
<p>GEOL 1340(C)<sup>1</sup> or GEOL 1110 and one of GEOL 1400, GEOL 1410 or GEOL 1420, GEOL 1350, GEOL 1360, or GEOL 1370 with a minimum grade of "C"</p> <p>A minimum grade of "C" on 6 credit hours from a second department or program for a minor<sup>2</sup></p> <p>Meet any University 1 requirements<sup>5</sup></p>	<p>GEOL 2540<sup>2</sup> plus a further 21 credit hours in Geological Sciences courses numbered at the 2000-level or above</p> <p>A further 12 credit hours for the minor at the 2000- level or above<sup>4</sup></p>	
It is recommended that students complete the M and W course in University 1 or Year 2.		
MINOR GEOLOGICAL SCIENCES 18 CREDIT HOURS		
<p>GEOL 1340<sup>1</sup> or GEOL 1110 and one of GEOL 1400, GEOL 1410 or GEOL 1420, GEOL 1350, GEOL 1360, or GEOL 1370</p>	<p>Plus 12 credit hours chosen from 2000- and 3000-level courses</p>	
<p><b>Notes:</b></p> <p><sup>1</sup> Students who have GEOL 1440 (007, 144) or the former 007, 124 should consult with the department. At the discretion of the department, GEOL 1440 (007, 144) or 007, 124 may be permitted in lieu of GEOL 1340 for entry.</p> <p>One of GEOL 1400, GEOL 1410, GEOL 1420 is highly recommended to be taken in Year 1, but will not be considered when assessing entry requirements to the program. If this requirement is not fulfilled in Year 1, it must be completed by the end of Year 2.</p> <p>GEOL 1340 is recommended for students wishing to take any Geological Sciences program. This course contains a lab component which will ease a student's transition to advanced level courses.</p> <p><sup>2</sup> GEOL 2500 may be used in lieu of GEOL 2540. Manitoba 405 Chemistry, CHEM 0090 or equivalent is a prerequisite for GEOL 2540 and GEOL 2500. CHEM 1300 is highly recommended and should be taken in U1.</p> <p><sup>3</sup> Students should determine their minor prior to the end of the Year 2 of the program.</p> <p><sup>4</sup> A minor will normally correspond to a Minor as outlined in a program chart for a specific department or program, e.g. refer to program charts for departments in the Clayton H. Riddell Faculty of Environment, Earth, and Resources, or in the Faculty of Arts, or in the Faculty of Science.</p> <p><sup>5</sup> Any U1 requirements not met in Year 1 must be completed before graduation.</p> <ul style="list-style-type: none"> <li>• To fulfil prerequisite requirements, a grade of "C" must be achieved in any course stipulated as prerequisite to a further course in Geological Sciences.</li> <li>• All courses are not offered every year. The course schedule for the current academic session is available from the online calendar at <a href="http://www.umanitoba.ca/calendar">www.umanitoba.ca/calendar</a></li> <li>• Students registering in certain courses may be required to pay a portion of the costs associated with field trips. For details, contact the department general office.</li> <li>• Equivalent courses offered through Collège universitaire de Saint-Boniface may be used in lieu of the specified courses identified in the degree program chart. Collège universitaire de Saint-Boniface courses end in the number "1" (e.g. GEOG 12B1).</li> </ul>		

## Environment and Geography

### Course deletions:

GEOG 3500 A Geography of Europe (A) Cr.Hrs. 6	-6
GEOG 3600 Geography of Ukraine Cr.Hrs. 3	-3
GEOG 4610 Techniques in Historical Geography Cr.Hrs. 3	-3

### Course introductions:

ENVR 2010 Field Topics in Environment Cr.Hrs. 1.5	+1.5
Field and practical experience in selected topics of current interest in the Environmental Science and Studies, with the content to vary depending on the needs of students and faculty. Prerequisite: permission of department head.	

ENVR 2020 Extended Field Topics in Environment Cr.Hrs. 3 +3  
Field and practical experience in selected topics of current interest in the Environmental Science and Studies, with the content to vary depending on the needs of students and faculty. Prerequisite: permission of department head.

ENVR 3750 Green Building and Planning Cr.Hrs. 3 +3  
An overview of the concepts and tools of Green Building Design and Green Planning. The course covers the history and trend in Green Building and Planning, related policies, tools and techniques. There is a strong emphasis on learning from local case-studies through seminars and field trips. Prerequisite: ENVR 2000 and 57 credit hours of course work, of permission of department head.

ENVR/GEOG 3850 Sustainable Manitoba Cr.Hrs. 3 +3  
This course approaches local sustainability issues from an interdisciplinary perspective. By looking at the ecological, social and economic aspects from a variety of discipline perspectives, a fuller understanding of sustainability is achieved. The broad range of perspectives is achieved through participation of guest speakers from other faculties and outside of the university as well as excursion outside the classroom. Not to be held for credit with GEOG 3850/ENVR 3850. Prerequisite: 60 credit hours of course work, or permission of department head.

ENVR/GEOG 4050 Ecosystem Management Cr.Hrs. 3 +3  
This course will provide students with an understanding of the practical applications of ecological science, environmental policy, and resource management approaches in the large-scale planning of landscapes. The course will review ecological principles and trace the historical development of the ecosystem concept. Comparisons are made to other possible environmental management approaches. The synthesis of major elements and concepts will be reinforced through case studies on the Manitoba landscape, with an emphasis on practical learning by students through field seminars and group discussions. Not to be held for credit with GEOG 4050/ENVR 4050. Prerequisite: permission of department head.

ENVR/GEOG 4060 Biogeography Cr.Hrs. 3 +3  
This course will provide students with a general understanding of the historical, ecological, analytical, and conservation aspects of biogeography. The course will also have a dual focus on the principles and concepts of reasons for the distribution of plants and animals worldwide, as well as incorporating discussion on as many local (Manitoba, Canada, North America) examples as possible. Not to be held for credit with GEOG 4060/ENVR 4060. Prerequisite: permission of department head.

#### Course modifications:

GEOG 2250 Introduction to Geographic Information Systems (TS) Cr.Hrs. 3 (Lab required)  
(formerly 053.225) An introduction to the fundamental theoretical concepts of geographic information systems including acquisition, processing and analyzing environmental and socio-economic data. Topics to be covered include georeferencing, spatial data structures, processing, output and applications. Not to be held with GEOG 2221 (053.222). Prerequisite: a grade of "C" or better in a minimum of three credit hours Geography, or Geological Sciences or Environmental Sciences courses numbered at the 1000 level, or permission of department head.

ENVR 2350 Technical Communication Skills in the Environmental Sectors Cr.Hrs. 3 (Lab required)  
(formerly 128.235) An introduction to technical communication skills required for environmental practitioners in research, government, and industry. The course covers technical writing and literature search techniques, business writing including reports, memos and e-mails, professional presentation skills, and fundamental internet skills. Practical experience is gained through assignments and

laboratory exercises. Not to be held for credit with the former 128.205. Prerequisite: ENVR 1000 or BIOL 1340 or permission of department head.

ENVR 3980 Coop Work Term 1 Cr.Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours or Major Cooperative program. This course is graded pass/fail. Prerequisite: ENVR 2900 (128.290)(C).

ENVR 3990 Coop Work Term 2 Cr.Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours of Major Cooperative program. This course is graded pass/fail. Prerequisite: ENVR 3900 (128.390)(C).

GEOG 4390 Global Climate Change Cr.Hrs. 3

(formerly 053.439) Students will be introduced to the complexities of climate changes through a series of introductory lectures and reading assignments that focus on recent scientific publications and review articles (mathematical skills are not required). Both sides of the climate change debate will be addressed in weekly assignments, and students will defend their conclusions in classroom discussion. Each student will take on a project in some aspect of climate change – glaciers, sea ice, temperature trends, precipitation, agriculture, animal migration, aerosols, or a regional impact. Prerequisite: permission of department head.

ENVR 4980 Coop Work Term 3 Cr.Hrs. 0

Work assignments in business, industry, research or government for students registered in the Honours of Major Cooperative program. This course is graded pass/fail. Prerequisite: ENVR 3990 (128.3990)(C).

Course re-numbering:

Number change of Methods in Ecotoxicology (3) from ENVR 3300 to ENVR 3180 Methods in Ecotoxicology (3). There are no changes to the course description or prerequisites.

#### **NET CHANGE IN CREDIT HOURS**

**+4.5 HOURS**

Introduction of Option in Aging:

To fulfill an Option in Aging, students in the B.Env.Sc., B.Env.St. and B.A. in Geography must complete the following:

- KIN/NURS 2610 Health and Physical Aspects of Aging (3) and HMEC/REC/SWRK 2650 Social Aspects of Aging (3)
- GEOG 4710 Geography of Aging (3) and GEOG 4290 Geography of Health and Health Care (3)
- Plus an additional 6 credit hours of other aging related courses offered through the Faculties of Arts, Human Ecology, Nursing, Kinesiology & Recreation Management, or Social Work.

## **Faculty of Human Ecology**

### Course introductions:

HNSC 4XXX Research Project in Human Nutritional Sciences Cr.Hrs. 6 +6

A research project in any aspect of human nutritional sciences, chosen in consultation with the supervising faculty member. A written report and a poster or oral presentation is required at the end of the project. Students must be registered in their final year of the Human Nutritional Sciences program. Application required. Enrolment limited. May not be held with HNSC 4120 or 030.412.

HMEC 3XXX Developmental Health Cr.Hrs. 3 +3

This course examines how social inequalities affect population health across the lifespan. It is guided by the determinants of health with a particular focus on socioeconomic variables. Local, provincial, national and international perspectives provide meaningful insight into the role of equality and inequality. Prerequisite: PSYC 2250 (or 017.225) or HMEC 2050 (or 028.205).

### Course modifications:

TXSC 2500 Preparation for Product Development Cr.Hrs. 1

Designed for students with little or no background in textile product assembly or for students who require a refresher course. This course provides an orientation to textile product assembly equipment, construction, techniques, and terminology. Students who do not meet the minimum standard in a challenge test must pass this course before they will be permitted to continue in TXSC 2630. For Textile Sciences students only. NOTE: The credit associated with this course will not be counted toward the minimum credit hour requirements of the Textile Sciences degree.

TXSC 2630 Pattern Development in an Industrial Environment Cr.Hrs. 3 (Lab required)

This course covers the process of communicating product design through pattern development. Students will learn the terminologies of pattern development, techniques of pattern development and manipulation, and the importance of anthropometry in creating apparel to suit its end uses. Prerequisite: TXSC 2600 (064.260). Additionally, students must complete TXSC 2500. TXSC 2500 is not required if a minimum standard is met on the challenge test. Continuation in TXSC 2630 is dependent on successful completion of TXSC 2500 or the challenge test. Not to be held with the former 064.348.

TXSC 3500 Textiles for the Healthcare Sector Cr.Hrs. 3

This course covers the recent developments of a range of technical textiles for the healthcare sector, including implantable textiles, barrier fabrics, and smart textiles. Prerequisite: TXSC 2610 (064.261) and [HMEC 2050 (028.205) or any 2000-level or 3000-level research method course] and [CHEM 1000 or CHEM 1300]

TXSC 3640 Pattern Development in a Computer Aided Design Environment Cr.Hrs. 3

This course is a continuation of TXSC 2630. It covers advanced pattern manipulations using an industrial computer aided design system. Prerequisites: TXSC 2630 (064.263) and TXSC 3650 (064.365). Not to be held with 064.349.

TXSC 3650 Production of Textile Products Cr.Hrs. 3

Covers the role of production in the product development process. Students will learn the terminology which meets industrial standards, the most commonly used production techniques for apparel and nonapparel products, time studies, costing, development of specifications, manufacturing systems,



and selected test methods for quality management. Prerequisites: TXSC 3630 and HMEC 2050 (028.205). Not to be held with 064.224 or 064.342.

**TXSC 4500** Advanced Textiles for the Healthcare Sector Cr.Hrs. 3

Covers the latest developments in technical textiles for the healthcare sector and the measurement of attributes which are essential to the performance of textiles for medical or healthcare end uses.

Prerequisites: TXSC 2600 (064.260) and TXSC 2610 (064.261) and TXSC 3500 (065.350) with a minimum grade of C, and CHEM 2220 (002.222) and HMEC 2050 (028.205).

**TXSC 4610** Integrative Project Cr.Hrs. 6

This is a required course in which students are required to demonstrate their ability to integrate the skills and knowledge accumulated in the program. Specifically, students will solve a specific textile or product development problem which may originate from the student's interests, developed in collaboration with academic staff, or community-based. Reserved for 4<sup>th</sup> year students in Textile Sciences. Prerequisites: TXSC 3610 (064.361) and TXSC 3620 (064.362). Not to be held with the former 064.430 or TXSC 4340 (064.434) or TXSC 4210 (064.421) or TXSC 4310 (064.431).

**HEAL 2600** Integration of Health Determinants of Individuals Cr.Hrs. 3

Students study, integrate and apply the determinants that affect the health of individuals throughout the lifespan to selected case of learning scenarios. The case of learning scenarios present a variety of issues in the delivery of health-related services that are intended to benefit individuals' health.

Restricted to students in Health Sciences and Health Studies. Prerequisites: one of CHEM 1300 or BIOL 1020 or STAT 1000 and one of PSYC 1200 or SOC 1200 or consent of instructor.

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

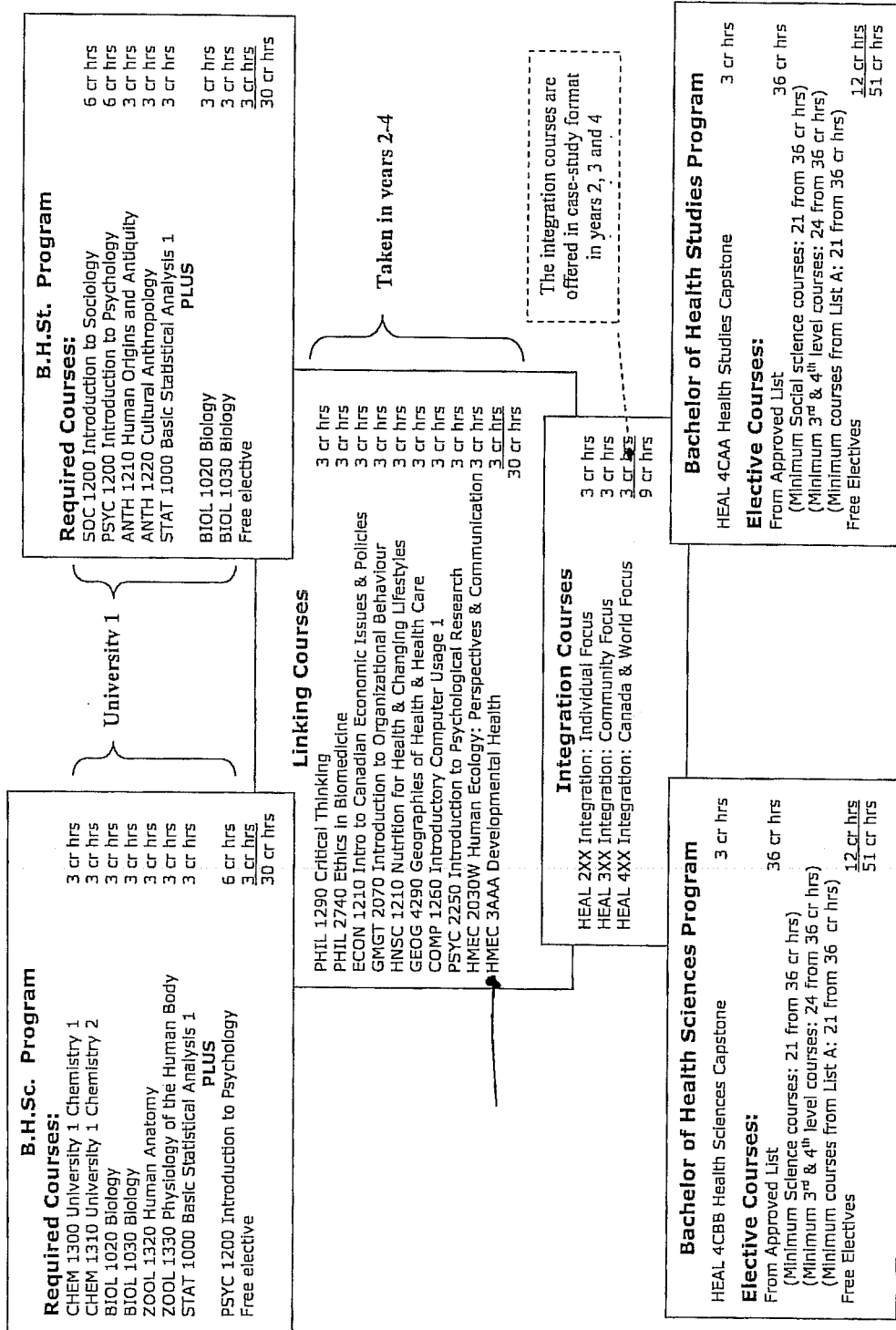
**+9 HOURS**

The list of electives for the Department of Family Social Sciences are being modified to include the following: for the Child and Adolescent Development Option, NURS 2170 and NURS 4240; for the Family Economic Health Option, FMLY 3240, FMLY 3610, FMLY 3900, FMLY 4900 and NURS 4240; and for the Family Violence and Conflict Resolution Option, NURS 3300 and NURS 3400.

The Interdisciplinary Health Degree Programs (Health Sciences and Health Studies) are being modified to add SOC 2490 to the set of linking courses and that 2 out of 3 (6 credit hours out of 9) of the following courses be required: PHIL 2740, SOC 2490, GEOG 4290.

Figure 2

## STRUCTURE OF THE CURRICULUM FOR INTERDISCIPLINARY HEALTH



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

### Supply Chain Management

Course modification :

SCM 4250 Beyond Business : Advanced Issues in SCM Cr.Hrs. 3

The material covered in this course moves beyond a business perspective and analyzes the relationship between supply chain management (SCM) and other parts of society as a whole. It examines the issues that arise as supply chain management interests with government and society. Prerequisite: SCM 2230 (D) (or the former 164.230)(D), or consent of instructor. May not hold for credit with SCM 4240 (or the former 164.424).

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

**0 HOURS**

### Collège universitaire de Saint-Boniface : Bachelor of Business Administration

Course deletions :

GMGT 3521 Culture et organisation Cr.Hrs. 3

-3

INTB 4501 Cultures du monde Cr.Hrs. 3

-3

Course introductions:

INTB 3XX1 Gestion interculturelle Cr.Hrs. 3

+3

Mise en évidence de l'influence de facteurs culturels sur les pratiques de gestion et la vie des entreprises. Présentation des dimensions de la culture de chaque pays étudiée (religion, valeurs, normes, histoire, etc.) et développement d'outils pour faciliter l'adaptation des employés étrangers dans ces pays et le développement d'une communication interculturelle efficace avec leurs ressortissants. Préalable : GMGT 2071 (ou l'ancien 027.207).

OPM 4XX1 Gestion de projets Cr.Hrs. 3

+3

Etude de la gestion de projets. Définition et contexte d'application de la gestion de projets. Techniques, approches et outils de gestion d'un projet en fonction de la structure organisationnelle de l'entreprise et des contraintes de temps, coût et qualité. Préalable : GMGT 2081, OPM 2601.

IDM 2981 Stage coopératif 1 Cr.Hrs. 0

0

Stage en milieu de travail auprès d'entreprises privées, coopératives, sociétés d'État, gouvernements ou organisations sans but lucratif, pour les étudiantes et étudiants inscrits à l'option Éducation coopérative du baccalauréat en Administration des affaires. Un rapport couvrant les 4 mois de stage est exigé. (Réussite/Échec).

IDM 3981 Stage coopératif 2 Cr.Hrs. 0

0

Stage en milieu de travail auprès d'entreprises privées, coopératives, sociétés d'État, gouvernements ou organisations sans but lucratif, pour les étudiantes et étudiants inscrits à l'option Éducation coopérative du baccalauréat en Administration des affaires. Un rapport couvrant les 4 mois de stage est exigé. (Réussite/Échec).

IDM 4981 Stage coopératif 3 Cr.Hrs. 0

0

Stage en milieu de travail auprès d'entreprises privées, coopératives, sociétés d'État, gouvernements où organisations sans but lucratif, pour les étudiantes et étudiants inscrits à l'option Éducation coopérative du baccalauréat en Administration des affaires. Un rapport couvrant les 4 mois de stage est exigé. (Réussite/Échec).

**NET CHANGE IN CREDIT HOURS:**

**+0 HOURS**

The Collège is proposing that the economics course required for the Bachelor of Business Administration be ECON 1200 or 1201; as with the Asper School of Business, ECON 1211 plus ECON 1221 will no longer be accepted as meeting this economics requirement. A new course INTB 3XX1 Gestion interculturelle will replace the requirement for INTB 4501 Cultures du monde and GMGT 3521 Culture et organization. HRIR 4531 Gestion du changement will be added to the list of core courses for the degree. OPM 4XX1 Gestion de projets will be added to the list of restricted electives for the Major: Management of Organizations and International Business and as an option for other majors.

The Collège is proposing to introduction a Cooperative Education Option which would mirror the one presently offered in the Asper School of Business including the completion of 3 (4 month) work terms which take place during the months of May to August. Students must have completed a minimum of 48 credit hours prior to the start of the first work term.

**Faculty of Music**

Course deletions:

MUSC 3810 Electroacoustic Music 1

-3

MUSC 4810 Electroacoustic Music 2

-3

Course introductions:

MUSC 3650 Electroacoustic Music Cr.Hrs. 3

+3

An introduction to electroacoustic music composition with the focus on acousmatic music. The course covers sound aesthetics, historical perspective of electro-acoustic music, repertoire and basic studio techniques such as sound editing, digital signal processing, multi channel techniques and sound mixing.

MUSC 4650 Interactive Computer Music Cr.Hrs. 3

+3

An introduction to interactive computer music composition. The course covers different techniques for interaction between performers and a computer. A variety of software will be used as a base for experiments. The course also covers sound synthesis. Possibilities are given to write with either projects involving performers or multi-disciplinary projects (for example, installation including visual elements).

MUSC 4660 Computer Assisted Composition Cr.Hrs. 3

+3

An introduction to Computer Assisted Composition. The course covers a variety of mathematical models for structuring musical parameters, such as probability, iterative functions, spectral pitch organization, rule-based systems and morphological modes. Different environments using the Lisp language are used as a base for experiments.

Course modifications:

MUSC 3140 Music for Children 2 Cr.Hrs. 6

Further study of the Orff-Schulwerk approach music education, including the areas of Basis Orff, creative movement, recorder, aural skills, improvisation and choral techniques. Prerequisite: a grade of "C+" or better in MUSC 3130 (or 033.313) or equivalent preparation, plus consent of Faculty of Music.

MUSC 4360 Wind Repertoire Cr.Hrs. 3

A selected survey of wind literature from 1500 to the present. Prerequisite: MUSC 4770 and MUSC 4780, or consent of the Faculty of Music.

MUSC 4370 Wind Conducting Techniques Cr.Hrs. 3

A study of the psychological, philosophical and practical aspects of conducting wind ensembles at all levels. (entry to professional) Prerequisite: MUSC 4770 and MUSC 4780, or consent of the Faculty of Music.

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

### **Faculty of Nursing**

Course modifications:

NURS 4420 Health Promotion in the Community Cr.Hrs. 3

This course will provide the opportunity to examine concepts, theories, research and nursing roles as they apply to the promotion of health in communities. The focus will be on promoting the health of aggregates and communities.

NURS 4430 Clinical Nursing Practice 6 Cr.Hrs. 3

Students will apply relevant concepts, theories, and research in population health promotion, primary health care, and prevention of illness. The focus is on the development of nursing skills to work effectively with aggregates and communities. Prerequisites: NURS 2180 (or 049.218); NURS 2190 (or 049.219); NURS 3300 (or 049.330); and NURS 3320 (or 049.332). Corequisites NURS 4440 and NURS 4420.

NURS 4440 Prevention of Illness Cr.Hrs. 3

This course focuses on the concepts of risk reduction and the prevention of illness and injury as they are applied to individuals, groups, and populations. The nurse's role in prevention and the early detection of health risks is highlighted. Issues and research relevant to illness and injury prevention are incorporated. Not to be held with the former NURS 2170 (or 049.217).

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

### **Faculty of Science**

#### **Biological Sciences**

Course introduction:

ZOOL 3001 Biologie évolutive Cr.Hrs. 3 (Labo Requis)

**+3**

L'évolution est la cause ultime de la diversité biologique. Ce cours donne une introduction aux sujets

principaux et aux méthodes de recherche en biologie évolutive. Les sujets incluent: génétique évolutive, adaptation, spéciation et reconstruction de l'histoire de l'évolution. On ne peut se faire créditer le ZOOL 3001 et le ZOOL 3000 ou l'ancien 022.400. Préalables: BOTN 2461 ou BOTN 2460 (ou 001.246) et un cours parmi les suivants: BOTN 2110 (ou 001.211), BOTN 2210 (ou 001.221), BOTN 2290 (ou 001.229), ZOOL 2320 (ou 022.232), ZOOL 2501 (ou 022.250F), ZOOL 2601 ou ZOOL 2600 (ou 022.260) ou consentement du professeur. Donné seulement au Collège universitaire de Saint-Boniface.

Course modifications:

**BIOL 1020 Biology 1: Principles and Themes Cr.Hrs. 3 (Lab required)**

A laboratory-based course in unifying principles of biology including cell biology, bioenergetics, cell division, genetics and evolution. This course is intended for major and honours students in the biological sciences. Not to be held with BIOL 1000 or BIOL 1001 (or 071.100), BIOE 2590 (or 034.259), or the former 071.125, 071.123 or 071.201. Prerequisites: Biology 40S or BIOL 1000 (C); and grade 12 Mathematics or equivalent (50%). Students who complete BIOL 1000 as the prerequisite for BIOL 1020 will not be allowed to use both BIOL 1000 and BIOL 1020 towards their degree program as the two courses may not be held for credit with one another.

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

### Chemistry

Course modifications:

**CHEM 4600 Advanced Chemical Techniques Cr.Hrs. 3 (Lab required)**

A workshop course consisting of lectures, problem solving, and advanced instrumental techniques. The course is designed to train potential research students in techniques like NMR, mass spectroscopy, and chromatography. This course is required of all final year Honours students in Chemistry. Prerequisite: one of CHEM 3360 (or 002.336)(C), CHEM 3380 (or 002.338)(C), CHEM 3390 (or 002.339)(C) or CHEM 3580 (or 002.358)(C).

**CHEM 4700 Advanced Biochemistry Laboratory Cr.Hrs. 3 (Lab required)**

A laboratory and workshop consisting of lectures, problem solving, and advanced instrumental techniques such as magnetic resonance spectroscopy, mass spectrometry, circular dichroism, x-ray crystallography, fluorescence spectroscopy and computer analysis of protein sequences. This course is required for all final year Honours students in Biochemistry. Prerequisite or concurrent requirement: CHEM 4620 (or CHEM 4621) and CHEM 4630 (or CHEM 4631).

**CHEM 4710 Research Project in Chemistry or Biochemistry Cr.Hrs. 6 (Lab required)**

A research project in any aspect of chemistry or biochemistry, chosen in consultation with the course administrator and an appropriate supervising faculty member. Written reports and oral presentation at the end of the project will be required. The course is normally available only to final year students in chemistry programs. Not to be held with MBIO 4530 (or 060.453). Prerequisite: permission of the course administrator.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

## Computer Science

### Course modifications:

#### COMP 1260 Introductory Computer Usage 1 Cr.Hrs. 3

This course offers an introduction to modern computer services. Areas covered will include word processing, spreadsheets, data management systems and graphics. No prior computer knowledge is necessary. May not be taken within the Computer Science Honours or Major program.

#### COMP 1270 Introductory Computer Usage 2 Cr.Hrs. 3

Using advanced tools to design web pages. Students will also learn how to make effective presentations, work in other operating system environments, use file transfer tools, apply simple script programming to web page designs, and understand current issues relating to technology in society. May not be taken within the Computer Science Honours or Major program. Recommended prerequisite: COMP 1260 (074.126) or equivalent knowledge is strongly recommended.

#### COMP 2150 Object Orientation Cr.Hrs. 3

Design and development of object-oriented software. Topics will include inheritance, polymorphism, data abstraction and encapsulation. Examples will be drawn from several programming languages. Not to be held with the former 074.215 or 074.227. Prerequisites: COMP 2160, and one of COMP 2140 (or 074.214 or 074.206) or COMP 2061 (or 074.206F)(C)

#### COMP 3010 Distributed Computing Cr.Hrs. 3

Introduction to distributed computing. Topics include task models, server-side computing, database connectivity, information sharing. Prerequisites: [COMP 2140 (or 074.214 or 074.206) or COMP 2061 (C)], and COMP 2150 (or 074.215).

#### COMP 3090 Digital Logic 2 Cr.Hrs. 3

Design and implementation of digital circuits. Minimization and state reduction, asynchronous circuits, arithmetical circuits, implementation using modern hardware techniques. Not to be held with the former 074.342, 074.447 or 074.422. Prerequisite: COMP 2280 (or 074.228)(C) or (the former 074.222 and 074.223)(C).

#### COMP 4580 Computer Security Cr.Hrs 3 (Lab Required)

Computer security and information management. This course will examine state-of-the-art knowledge about the issues relevant to data and computer security. Prerequisite: COMP 3430 (or 074.343)(C) and COMP 3720 (or 074.372)(or the former 074.430)(C).

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

**0 HOURS**

## Mathematics

### Course deletions:

#### MATH 2200 Sets and Real Numbers Cr.Hrs. 3

-3

#### MATH 3110 Mathematical Methods and Complex Analysis Cr.Hrs. 4

-4

#### Course introductions:

MATH 2XX2 (will be MATH 2202) Fundamentals of Mathematical Analysis Cr.Hrs. 3 +3  
The language of mathematics: logic, methods of proof, elementary set theory. Foundations of calculus: the real numbers, continuity. This course is mathematically challenging and is intended primarily for students registered in an Honours, Joint Honours or Four-Year Major program. Registration for this course requires approval of the department. Not to be held with the former MATH 2200 (136.220). Prerequisites: a grade of "C+" or better in MATH 1300 or MATH 1301 (or 136.130) or MATH 1310 (or 136.131) and a grade of "C+" or better in one of MATH 1690 (or 136.169), MATH 1700 or MATH 1701 or MATH 1710.

MATH 3140 Engineering Mathematical Analysis 4 Cr.Hrs. 3 +3  
Introduction to discrete mathematics; systems of linear differential equations; complex function theory and applications. For Engineering and Geophysics students only. Not to be held with MATH 3110 (or 136.311 or 006.343) or MATH 3700 (or 136.370 or 006.325) or MATH 3710 (or 136.371 or 013.372). Prerequisites: MATH 2130 (or the former MATH 2100 or 136.210 or 006.260) (C) and MATH 2132 (or the former MATH 2110 or 136.211 or 006.261)(C). NOTE: Math 3132 is highly recommended.

#### Course modifications:

MATH 2352 Advanced Linear Algebra Cr.Hrs. 3  
(formerly 136.235) Vector spaces, linear transformations, inner product spaces, eigenvalues and eigenvectors, orthogonal and Hermitian matrices, and applications. This course is mathematically challenging and is intended primarily for students registered in an Honours, Joint Honours or Four-Year Major program. Registration for this course requires approval of the department. Not to be held with MATH 2300 or MATH 2301 (136.230)(or the former MATH 2350 or 013.235). Prerequisites: a grade of "C+" or better in MATH 1300 or MATH 1301 (or 136.130) or MATH 1310 (or 136.131) and a grade of "C+" or better in one of MATH 1690 (or 136.169), MATH 1700 or MATH 1701 or MATH 1710.

MATH 2400 Applied Graph Theory Cr.Hrs. 3  
Graphs, planar graphs, directed graphs. Applications such as scheduling, assignments, timetabling, tournaments, networks with algorithms. Prerequisite: MATH 1300 or MATH 1301 (or 136.130)(C) or MATH 1310 (or 136.131)(C). Not available to students already holding credit in COMP 4340 or currently registered in COMP 4340.

MATH 2750 Intermediate Calculus Cr.Hrs. 3  
Sequences, series and power series. Differentiation and integration of real-values functions of several real variables. Not to be held with MATH 2720 or MATH 2721 (or 136.272), MATH 2730 or MATH 2731 (or 136.273). This course is mathematically challenging and is intended primarily for students registered in an Honours, Joint Honours or Four-Year Major program. Registration for this course requires approval of the department. Prerequisites: a grade of "C+" or better in MATH 1300 or MATH 1301 (or 136.130) or MATH 1310 (or 136.131) and a grade of "C+" or better in one of MATH 1690 (or 136.169), MATH 1700 or MATH 1701 (or 136.170), or MATH 1710 (136.171) or MATH 1730 (136.173).

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 (or 074.213) or 074.212 and the former 006.371. Prerequisites: MATH 2132 or the former MATH 2100 (or 136.210)(or the former 006.260)(C) and MATH 2120 (or 136.212)(or the former 006.270)(C).



MATH 3710 Complex Analysis 1 Cr.Hrs. 3

(formerly 136.371) The geometry of the complex plane, analytic functions, contour integration. Cauchy's theorem and formula, the residue theorem, etc. Not to be held with MATH 3110 (or 136.311), MATH 3700 (or 136.370)(or the former 006.343, 006.325, or 013.372). Prerequisite: MATH 3230.

MATH 3800 Ordinary Differential Equations with Applications 2 Cr.Hrs. 3

(formerly 136.380) Laplace transforms, series solutions of ODEs, systems of linear ODEs, applications, introduction to dynamical systems. Not to be held with the former 006.226 or 006.235. Prerequisite [MATH 2800 or MATH 2801 (or 136.280)(or the former 006.226 or 006.235)](C), and [MATH 2730 or MATH 2731 (formerly 136.273 or 136.271) or MATH 2750 (or the former 136.275)](C).

MATH 4700 Applied Functional Analysis Cr.Hrs. 3

(formerly 136.470) Elements of metric, normed and inner product spaces; operators and inverses; applications in analysis and numerical analysis. Not to be held with the former 006.446. Prerequisite: MATH 3740 (or the former 136.375 or 013.332) or MATH 3760 (or the former 136.376, 013.332, or 013.340)(C).

**NET CHANGE IN CREDIT HOURS:**

**-1 HOUR**

The Applied Math 4-year Major with Management Sciences Option program is to be deleted.

The following programs will be modified to replace the former **MATH 2200 Sets and Real Numbers** with the introduced **MATH 2202 Fundamentals of Mathematical Analysis**: Mathematics Honours and Honours Double programs, Mathematics Four Year Major, Mathematics-Actuarial Mathematics Joint Program, Mathematics-Physics and Astronomy Joint Program, Mathematics-Economics Joint Honours Program, Statistics-Economics Joint Program, and Statistics-Mathematics Joint Program.

**DEPARTMENT OF MATHEMATICS**  
**Program Changes**  
**2008-2009**

**Proposed:**

University 1	Year 2	Year 3	Year 4
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**Mathematics Honours<sup>4</sup>** 120 CREDIT HOURS  
 (comprising courses listed in chart below, and electives)

MATH 1300<sup>1</sup> (B), MATH 1690 (B), (or MATH 1500<sup>1</sup> and MATH 1700<sup>1</sup> (B)), STAT 1000<sup>2</sup>, COMP 1010<sup>2</sup>

**MATH 2XX2**, MATH 2352, MATH 2600, MATH 2750, MATH 2800

48 credit hours<sup>3</sup> of 3000 and 4000 level Mathematics<sup>5</sup> courses, which must include MATH 3230, MATH 3400, MATH 3760, MATH 3800 and one of two of the concentrations listed below:

Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course

Applied and Computational Mathematics Concentration:

MATH 3300 or MATH 3350; MATH 3700 or MATH 3710; and at least 12 credit hours from MATH 4310, MATH 3510, MATH 3600, MATH 3810, MATH 3820, MATH 4610, MATH 4800 or MATH 4810

Pure Mathematics Concentration:

MATH 3350, MATH 3710 and at least 12 credit hours from MATH 3240, MATH 4200, MATH 4350, MATH 4410 or MATH 4420, MATH 4710, MATH 4750

30 Hours

30 Hours

30 Hours

30 Hours

**Mathematics Honours Double<sup>4</sup>** MINIMUM 120 CREDIT HOURS  
 (comprising courses listed in chart below, and electives)

MATH 1300<sup>1</sup>(B), MATH 1690 (B) (or MATH 1500<sup>1</sup> and MATH 1700<sup>1</sup> (B)), STAT 1000<sup>2</sup>, COMP 1010<sup>2</sup>

**MATH 2XX2**, MATH 2352, MATH 2600, MATH 2750, MATH 2800

MATH 3230, MATH 3350, MATH 3710, MATH 3760

MATH 3800

Plus 12 credit hours from MATH 4200, MATH 4210, MATH 4350, MATH 4710, MATH 4720, MATH 4750<sup>3</sup>

Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course

Plus at least an additional 3 credit hours from among the above and MATH 3220, MATH 3240, MATH 3400, MATH 3430, MATH 3450, MATH 4250, MATH 4400, MATH 4410, MATH 4420, MATH 4430, MATH 4800, MATH 4920, MATH 4960

**Mathematics Four Year Major<sup>4,6</sup>** 120 CREDIT HOURS  
 (comprising courses listed in chart below, and electives)

MATH 1300<sup>1</sup>, MATH 1500<sup>1</sup> and MATH 1700<sup>1</sup> (or MATH 1690), STAT 1000<sup>2</sup>, COMP 1010<sup>2</sup>

**MATH 2XX2**, MATH 2352, MATH 2600, MATH 2750, MATH 2800

MATH 3300 or MATH 3350, MATH 3400, MATH 3700 or MATH 3710, MATH 3740 or MATH 3760, MATH 3800 and enough courses from MATH 2400, MATH 2500, STAT 2000 and all third and fourth year Mathematics courses to make 48 credit hours

Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course

**Mathematics - Actuarial Mathematics Joint Program, Department Code: 136M**

University 1	Year 2	Year 3	Year 4
<b>Joint Honours<sup>2</sup> 120 CREDIT HOURS</b> (comprising courses listed in chart below, and electives)			
MATH 1690 (B) (or MATH 1500 <sup>1</sup> and MATH 1700 <sup>1</sup> (B)), MATH 1300 <sup>1</sup> (B),  STAT 1000, STAT 2000 (B)  Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course  Plus 9 credit hours of electives  30 Hours	ACT 2120, STAT 3500, STAT 3600, <u>MATH 2XX2</u> , MATH 2352, MATH 2750, MATH 2800  Plus 3 credit hours of approved electives  30 Hours	ACT 3130, ACT 3230, ACT 3330, ACT 3530, MATH 3230, MATH 3710, MATH 3760, STAT 3050.  Plus 6 credit hours of approved electives  30 Hours	ACT 4140, MATH 3350, MATH 3400, MATH 4750  Plus 12 credit hours of approved electives  30 Hours

**NOTES:**

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700.

<sup>2</sup> The courses required in this program satisfy the University mathematics requirement.

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

# **Mathematics - Physics and Astronomy Joint Program, Department Code: 136P**

University 1	Year 2	Year 3	Year 4
<b>Joint Honours<sup>4</sup> 132 CREDIT HOURS</b> (comprising courses listed in chart below, and electives)			
MATH 1300 <sup>1</sup> (B), MATH 1510 <sup>1</sup> (B) and MATH 1710 <sup>1</sup> (B) (or MATH 1690 (B)), PHYS 1050 (B) (or PHYS 1020 (B+)) <sup>2</sup> and PHYS 1070 (B), STAT 1000, COMP 1010  Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course <sup>5</sup>	PHYS 2260, PHYS 2380, PHYS 2600, PHYS 2610, PHYS 2650 <sup>3</sup> , <b>MATH 2XX2</b> , MATH 2352, MATH 2750, MATH 2800	MATH 3230, MATH 3350 (or MATH 3300 and MATH 3310), MATH 3700 or MATH 3710, MATH 3760, PHYS 3670, PHYS 3680, PHYS 3650, PHYS 3630, PHYS 3640 <sup>6</sup> , PHYS 3380	MATH 3800, MATH 4810 <sup>7</sup>  Plus 9 credit hours of 3000 or 4000 level Mathematics courses, of which 3 credit hours must be at the 4000 level  PHYS 3430, PHYS 3660, PHYS 4390  Plus 6 credit hours from 3000 and 4000 level Physics Honours courses
30 Hours	33 Hours	36 Hours	33 Hours

## **NOTES:**

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1500, MATH 1520 or MATH 1530 may be taken in place of MATH 1510; MATH 1700 or MATH 1730 may be taken in place of MATH 1710.

<sup>2</sup> PHYS 1030 is not suitable for entry to the program. Students must also take PHYS 1070 if they have already taken PHYS 1030. Students can hold credit for both PHYS 1030 and PHYS 1070.

<sup>3</sup> The corequisite of PHYS 2490 is waived. It is recommended that students audit PHYS 2390 and PHYS 2490 in second year.

<sup>4</sup> The courses required in this program will satisfy the University mathematics requirement.

<sup>5</sup> As there are no electives in Year 2 of the program, students should complete the university written English requirement in University I. If not completed in University I, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.

<sup>6</sup> The prerequisite of PHYS 2490 is waived.

<sup>7</sup> The prerequisite of MATH 3810 has been waived for students who have completed PHYS 3630, PHYS 3640 and PHYS 3380.

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

**Mathematics – Economics Joint Honours Program, Department Code: 136E**

University 1	Year 2	Year 3	Year 4
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**Joint Honours 120 CREDIT HOURS**

(comprising courses listed in chart below, and electives)

ECON 1200, (or ECON 1210 and ECON 1220) MATH 1300<sup>1</sup>, MATH 1500<sup>1,2</sup>, MATH 1700<sup>1,2</sup>, STAT 1000<sup>3</sup>, COMP 1010<sup>3</sup>

ECON 2700, ECON 2800, **MATH 2XX2**, MATH 2352, MATH 2750, MATH 2800

ECON 3700, ECON 3800, ECON 3180<sup>7</sup> (or STAT 2000)<sup>3</sup>, MATH 2600<sup>3</sup>, MATH 3230, MATH 3300<sup>5</sup>, MATH 3400, MATH 3700 (or MATH 3710), MATH 3740 (or MATH 3760)

Plus 9 credit hours of electives<sup>6</sup>, which should include the required "W" course

Plus 6 credit hours of approved electives<sup>6</sup>

Plus 24 credit hours of approved Economics courses<sup>4</sup>

Plus 6 credit hours of Mathematics courses at the 3000 or 4000 level, which must include at least one of MATH 4310, MATH 3510, MATH 3600, MATH 3810, MATH 3820, or any Mathematics course at the 4000 level.

30 Hours

30 Hours

30 Hours

30 Hours

**NOTES:**

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place MATH 1700.

<sup>2</sup> The combination of MATH 1500<sup>1</sup> and MATH 1700<sup>1</sup> may be replaced by MATH 1690.

<sup>3</sup> Some courses may be taken in a different year than indicated; STAT 1000, COMP 1010, MATH 2600 and ECON 3180 (or STAT 2000) may be taken in Year 2.

<sup>4</sup> Of the 24 credit hours of electives in Economics in Years 3 and 4, no more than 6 credit hours may be at the 2000 level (with the exception of ECON 2530) and at least 6 credit hours must be at the 4000 level.

<sup>5</sup> MATH 3300, plus 3 of the 6 unallocated credit hours in Mathematics in Years 3 and 4, may be replaced by MATH 3350.

<sup>6</sup> Student are encouraged to consider useful courses in Computer Science and Statistics as electives.

<sup>7</sup> The prerequisite of ECON 3170 is waived for students in this program.

## Microbiology

### Course introduction:

MBIO 3XY0 Applied Biological Safety Cr.Hrs. 3

+3

A comprehensive overview of i) applied biological safety in research and industrial environments and ii) the disease-causing features of relevant infectious agents and considerations for their containment. The course consists of lectures and demonstration components. Prerequisite: MBIO 2100 (or MBIO 2101 or the former 060.210) or permission of instructor. Check with department for availability.

### Course modifications:

MBIO 1220 Essentials of Microbiology Cr.Hrs. 3

(formerly 060.122) A review of the essential principles of microbiology including immunity, with emphasis on microbial disease. Not available to students who have previously obtained credit in or are currently enrolled in MBIO 3010 or MBIO 3011 (or 060.301). Prerequisite: any grade 12 Mathematics, or equivalent. This prerequisite is waived for students in the Baccalaureate Program for

Registered Nurses. NOTE: MBI0 1220 is intended for students planning to enter the Faculty of Nursing or other health care or related programs, but may be used as an elective in an Arts or Science program. It may also be used to meet a program requirement for the Honours and Major programs in Microbiology.

MBIO 2100 General Microbiology A Cr.Hrs. 3 (Lab required)  
(formerly 060.210) Fundamental principles of and methods used in microbiology. An introduction to the major groups of micro-organisms, their structure and function, growth, metabolism, physiology and regulatory systems. Prerequisite: [BIOL 1030 or BIOL 1031 (or the former 071.125)(C)] and [CHEM 1310 or CHEM 1311 (or 002.131)(C) or CHEM 1320 (or 002.132)(C)].

MBIO 4530 Project in Microbiology Cr.Hrs. 6 (Lab required)  
(formerly 060.453) A research project chosen in consultation with the department head, and supervised by a staff member. A written report is normally required. The course is available only to final year Honours students in Microbiology, the Joint Microbiology-Chemistry programs, or the Genetics program. Not to be held with CHEM 4710 (or 002.471).

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

#### Physics and Astronomy

Course deletion:

PHYS 4670 Physics Laboratory Cr.Hrs. 6 (Lab required) -6

Course introductions:

PHYS 4XYZ Physics Laboratory A Cr.Hrs. 3 (Lab required) +3  
For students in term 1 of their final year in Honours. Experiments are available in nuclear physics, solid state physics, and optics. All are open ended, permitting the student to pursue the investigation of a phenomenon as far as desired. First part of a two course series. Not to be held with the former PHYS 4670, 016.444 or PHYS 4570 (or 016.457). Prerequisite: PHYS 3430 (or 16.343)(C) or consent of department.

PHYS 4ABC Physics Laboratory B Cr.Hrs. 3 (Lab required) +3  
For students in term 2 of their final year in Honours. Experiments are available in nuclear physics, solid state physics, and optics. All are open ended, permitting the student to pursue the investigation of a phenomenon as far as desired. Second part of a two course series. Not to be held with the former PHYS 4670, 016.444 or PHYS 4570 (or 016.457). Prerequisite: PHYS 3430 (or 16.343)(C) and one of PHYS 4XYZ or PHYS 4DEF, or consent of department.

PHYS 4DEF Honours Thesis – Proposal and Preparation Cr.Hrs. 3 +3  
For students in term 1 of their final year in Honours. The student will prepare a proposal for the undergraduate thesis and demonstrate the feasibility of the project under the supervision of a faculty member. The results of the study will be presented (in written and oral form) to an examining committee during the term. Both experimental and theoretical topics are acceptable. A grade of C (based on the presentations) is required to proceed to the next course which forms the final stage of the honours thesis. Not to be held with the former PHYS 4670, 016.444 or PHYS 4570 (or 016.457) or the new PHYS 4XYZ. Prerequisites: PHYS 3430 (or 016.343)(C) and consent of department.

PHYS 4GHI Honours Thesis – Project and Presentation Cr.Hrs. 3 +3  
For students in term 2 of their final year in Honours. The student will complete the work needed and produce an undergraduate thesis under the supervision of a faculty member. The grade will be based on the examining committee's evaluation of a progress report (presented mid-term) and an evaluation of the thesis manuscript and oral presentation at the end of term. Both experimental and theoretical topics are acceptable. Not to be held with the former PHYS 4670 , 016.444 or PHYS 4570 (or 016.457) or the new PHYS 4XYZ or PHYS 4ABC. Prerequisites: PHYS 4DEF (C) and consent of department.

Course modification:

PHYS 2270 Physical Topics for Biologists A Cr.Hrs. 3  
(formerly 016.227) Physical topics with a relation to biology are discussed. Radiative transfer of energy, boundary layers, heat conduction, diffusion, mass transport, and the use of radioactive materials in biology are considered. Prerequisite: [PHYS 1050 or PHYS 1051 (016.105)(C)] or [PHYS 1020 or PHYS 1021 (or 0166.102)(C)] or consent of department.

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

Program modification:

With the course deletion and additions above, Option B of the Physics and Astronomy Honours degree will be modified to delete PHYS 4670 and replace it with [PHYS 4XYZ Physics Laboratory A or PHYS 4DEF Honours Thesis – Proposal and Preparation] and [PHYS 4ABC Physics Laboratory B or PHYS 4GHI Honours Thesis – Project and Presentation].

**DEPARTMENT OF PHYSICS AND ASTRONOMY**  
**Program Changes**  
**2008-2009**

**Proposed:**

5.14.3 Physics and Astronomy, Department Code: 016

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
<b>HONOURS<sup>1,2</sup> 120 CREDIT HOURS</b> (comprising courses listed in chart below, and electives)			
<p>PHYS 1050 (B) (or PHYS 1020<sup>3</sup> (B+)) PHYS 2260, PHYS 2390, PHYS 2490, PHYS 3670, PHYS 3680, PHYS 3430, PHYS 4390, PHYS 4510<sup>4</sup>, PHYS 1070 (B), MATH 1300<sup>3</sup> (B), PHYS 2380, PHYS 2600, PHYS 2610, PHYS 3650, PHYS 3630, PHYS 3640, 4520<sup>4</sup> MATH 1500<sup>3</sup> (B), MATH 1700<sup>3</sup> (B) PHYS 2650, MATH 2720<sup>5</sup> PHYS 3380</p> <p>Plus 6 credit hours from the Faculty of Arts, which should include the required "W" course<sup>6</sup></p> <p>Choose 1 of:</p> <p>Option A (Astronomy): PHYS 2070    PHYS 3180    PHYS 4230, PHYS 4240</p> <p>Option B (Physics): 6 credit hours to be chosen from MATH 2730<sup>5</sup>, MATH 2800 or courses in Computer Science, Chemistry or Geophysics    MATH 3130    <u>MATH 3700, one of PHYS 4XYZ or PHYS 4DEF and one of PHYS 4ABC or PHYS 4GHI</u></p> <p>Plus 3 credit hours of electives with one of the following strongly recommended: PHYS 3220, PHYS 3570, PHYS 3660 and courses from Computer Science, Chemistry, Geological Sciences and Mathematics.</p> <p>Plus 9 credit hours from PHYS 3570, PHYS 3660, PHYS 4250, PHYS 4560, PHYS 4590, PHYS 4600, PHYS 4620, PHYS 4630</p> <p>Students who choose Option B may also want to consider PHYS 3180</p>			
30 Hours	30 Hours	30 Hours	30 Hours

**NOTES:**

- <sup>1</sup> Students must achieve a minimum grade of "C" in all Honours Physics and Astronomy courses that are either required in the program or required as prerequisites to other Physics and Astronomy courses taken in the Honours program.
- <sup>2</sup> PHYS 1030 is not suitable for entry to the Honours and four year Major program. Students must also take PHYS 1070 if they have already taken PHYS 1030. Students can hold credit for both PHYS 1030 and PHYS 1070.
- <sup>3</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.
- <sup>4</sup> Other Honours Physics and Astronomy or Honours Mathematics courses may be substituted for one of PHYS 4510 or PHYS 4520 with permission of the department.
- <sup>5</sup> A minimum grade of "C" and an average of "C+" is required on these two Mathematics courses.
- <sup>6</sup> As there are no electives in Year 2 of the program, students should complete the University written English requirement in University 1. If not completed in University 1, a "W" course must be completed prior to Year 3 in addition to the required Year 2 courses.
- <sup>7</sup> The courses required in this program will satisfy the University mathematics requirement.
- <sup>8</sup> MATH 2750 may be taken in lieu of MATH 2720 and MATH 2730.
- <sup>9</sup> IMPORTANT: The four year Major program need not be completed in the manner prescribed in the chart above. The chart indicates the recommended arrangement of the required courses and is meant to be a guide around which students can plan their program (Letters in brackets refer to minimum prerequisite standing required for further study.)



## Statistics

### Program modifications:

To reflect the course changes made in the Mathematics Department, MATH 2200 Sets and Real Numbers has been deleted and replaced with MATH 2XX2 Fundamentals of Mathematical Analysis in the Statistics-Economics Joint Program and in the Statistics-Mathematics Joint Program.

### Proposed:

### Statistics - Economics Joint Program, Department Code: 005M

University 1	Year 2	Year 3	Year 4
<b>Joint Honours<sup>6</sup> 120 CREDIT HOURS</b> (comprising courses listed in chart below, and electives)			
ECON 1200 (or ECON 1210 and ECON 1220), MATH 13001, MATH 15001,2, MATH 17001,2, STAT 1000, COMP 1010	STAT 2400, ECON 2700, ECON 2800, <b>MATH 2XX2</b> , MATH 2352, MATH 2750, STAT 2000	ECON 3700, ECON 3800, MATH 3740 or MATH 3760, STAT 3470, STAT 3480, STAT 3490, STAT 3500, STAT 3600	ECON 4120, ECON 4130, STAT 4140, STAT 4520, STAT 4530, STAT 4580
Plus 9 credit hours of electives which should include the required "W" course	Plus 3 credit hours of approved Economics electives <sup>3</sup>	Plus 3 credit hours of approved Economics electives <sup>3</sup>	Plus 12 credit hours of approved Economics electives <sup>3</sup>
30 hours	30 hours	30 hours	30 hours

#### NOTES:

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700.

<sup>2</sup> May be taken in Year 2

<sup>3</sup> May be taken in Year 3.

<sup>4</sup> STAT 2000 may be taken in University 1.

<sup>5</sup> The courses required in this program satisfy the university mathematics requirement.

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

**Statistics - Mathematics Joint Program, Department Code: 005M**

**Proposed:**

University 1	Year 2	Year 3	Year 4
<b>Joint Honours<sup>4</sup> 120 CREDIT HOURS</b> (comprising courses listed in chart below, and electives)			
MATH 13001(B), MATH 1690(B) (or MATH 15001 and MATH 17001(B)),  Plus 9 credit hours	STAT 20004, STAT 2400, <b>MATH 2XX2</b> , MATH 2352, MATH 2600, MATH 2750, MATH 2800  Plus 3 approved credit hours	STAT 3050, STAT 3470, STAT 3480, STAT 3500, STAT 3600  Plus 3 approved credit hours	STAT 41403, STAT 4520, STAT 4530 <sup>3</sup>  Plus 6 approved credit hours
The following courses must be taken in University 1 or Year 2 COMP 10102, STAT 1000 (B)  6 credit hours from the Faculty of Arts, which should include the required "W" course  30 hours	Plus a total of 30 credit hours from MATH 2400 and any 3000 and 4000 level Mathematics courses, which must include at least 3 credit hours at the 4000 level and must also include MATH 3230, MATH 3740 (or MATH 3760), MATH 3350 (or MATH 3300), MATH 3700 (or MATH 3710), MATH 3400 and MATH 3800  30 hours		
		30 hours	30 hours

**NOTES:**

<sup>1</sup> MATH 1310 may be taken in place of MATH 1300; MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place MATH 1700.

<sup>2</sup> The combination of MATH 1500<sup>1</sup> and MATH 1700<sup>1</sup> may be replaced by MATH 1690.

<sup>3</sup> Of the 18 credit hours in Economics electives in Years 2, 3 and 4, no more than 6 credit hours may be at the 2000 level or below; ECON 2530 and ECON 3180 are recommended in Year 2 or 3. The normal prerequisite for ECON 3180 is ECON 3170, which will be waived for students in this program who have completed Year 1.

<sup>4</sup> The courses required in this program satisfy the University Mathematics requirement.

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

## Psychology

The Honours Psychology program is being modified to add PSYC 3XXX to Year 3 and delete 3 credit hours of options.

### Proposed Program

5.15.2 Psychology, Department Code: 017

UNIVERSITY 1	YEAR 2	YEAR 3	YEAR 4
HONOURS <sup>9</sup> 120 CREDIT HOURS (comprising courses listed in chart below, and electives)			
PSYC 1200 (B+) (or PSYC 1211 (B+) and PSYC 1221 (B+)) 6 credit hours Science <sup>1</sup> (B)	PSYC 2300W,M, <sup>2</sup> 6 credit hours 2000 or 3000 level <sup>3</sup> Psychology 15 credit hours Science <sup>6</sup> 3 credit hours options <sup>7</sup>	3 credit hours from PSYC 3630, PSYC 3340 PSYC 3XXX 15 credit hours Psychology <sup>4</sup> 9 credit hours Science <sup>6</sup>	PSYC 4520 18 credit hours Psychology <sup>5</sup> 6 credit hours Science <sup>6</sup>

#### NOTES:

<sup>1</sup> Introductory courses in Biology, Chemistry, Computer Science, Mathematics, Statistics or Zoology are highly recommended.

<sup>2</sup> PSYC 2250 and PSYC 2260 are required when PSYC 2300 is not offered.

<sup>3</sup> These 6 credit hours must include 3 credit hours from each of two different lettered categories of Psychology courses below.

<sup>4</sup> These 15 credit hours must include 3 credit hours from each of two different lettered categories of Psychology courses below and not sampled in Year 2.

<sup>5</sup> These 18 credit hours must include 6 credit hours at the 4000 level; and 6 credit hours at any level including any remaining lettered category below.

<sup>6</sup> The Science courses that are chosen must be approved by the Department of Psychology and must include a minimum of 18 credit hours at the 2000 level or above.

<sup>7</sup> Free options are to be chosen from courses that are acceptable for credit in the Faculty of Science and must be approved by the Department of Psychology.

<sup>8</sup> During Years 2 to 4 a total of 42 credit hours of 2000 or 3000 level Psychology courses must be completed, including a minimum of 3 credit hours from each of four of the five lettered categories of courses below.

<sup>9</sup> The courses required in this program satisfy the university mathematics requirement.

<sup>10</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.

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

The change is:

1. PSYC 3XXX (Thinking Critically about Psychological Research) is added to Year 3 of the Honours program and the 3 credit hours of options is deleted.

## Interdisciplinary Program in Forensic Science

Course introduction:

FORS 2XXX Introductory Forensic Science Cr.Hrs. 3

+3

Survey course which introduced forensic science via a series of guest lectures provided by experts from within the university and from the community (e.g. Winnipeg Police, RCMP, Chief Medical Examiner, etc). Multidisciplinary topics will be covered including how a case is studied, use of scientific techniques in investigations, collection of evidence, the role of the expert witness, and presentation of evidence in court. Prerequisites: BIOL 1030 (C+), CHEM 1310(C+) and MATH 1500 (C+).

**NET CHANGE IN CREDIT HOURS:**

**+3 HOURS**

## Chemistry Physics Joint Honours Program

The Joint Honours Program in Chemistry and Physics presented below is comprised entirely of existing and currently offered courses and is therefore a re-packaging of existing offerings which will provide another option to students. The full COPSE proposal form was considered.

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4.6.3<sup>2</sup> Chemistry -- Physics Joint Program, Department Code: 002P

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UNIVERSITY 1

YEAR 2

YEAR 3

YEAR 4

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HONOURS 120 CREDIT HOURS (comprising courses listed in chart below, and electives)

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CHEM 1300(B), CHEM 1310(B),  
PHYS 1050(B) (or PHYS  
1020(B+)) and PHYS 1070(B),  
MATH 1500<sup>1</sup>(B), MATH 1700(B)  
)<sup>1</sup>  
Plus 6 credit hours of electives  
Plus 6 credit hours from the  
Faculty of Arts, which should  
include the required "W" course

CHEM 2210, CHEM 2220,  
CHEM 2280, CHEM 2290,  
CHEM 2380 or CHEM 2470,  
PHYS 2390, PHYS 2380, PHYS  
2490, PHYS 2600, PHYS 2650

12 credit hours from whichever  
of CHEM 2380 or 2470 not taken  
and any of CHEM 2860 (CHEM  
2360 (MBIO 2360)), CHEM 2370  
(MBIO 2370) or 3000 or 4000  
level Chemistry courses  
PHYS 2260, PHYS 2610, PHYS  
3380, PHYS 3630, PHYS 3670,  
PHYS 3680

CHEM 4600  
CHEM 4710 or PHYS 4670  
PHYS 4390

Plus 6 credit hours from 3000  
or 4000 level Physics courses

Plus 3 credit hours from 3000  
or 4000 level Chemistry courses

Plus 9 credit hours of electives

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30 Hours

30 Hours

30 Hours

30 Hours

### NOTES:

<sup>1</sup> MATH 1510, MATH 1520 or MATH 1530 may be taken in place of MATH 1500; MATH 1710 or MATH 1730 may be taken in place of MATH 1700; MATH 1690 may be taken in place of MATH 1500 and MATH 1700.

<sup>2</sup> The courses required in this program will satisfy the university mathematics requirement.

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## **Faculty of Social Work**

Course modification:

SWRK 2090 Human Behaviour and Social Work Practice Cr.Hrs. 6

Students are introduced to a broad range of theories and will develop an understanding of how people and environments reciprocally affect each other. Particular emphasis is placed on understanding how gender, race, ethnicity, socioeconomic factors, age, ability, and sexual orientation contribute to and influence human behaviour throughout the lifespan.

**NET CHANGE IN CREDIT HOURS:**

**0 HOURS**

/mb

## REPORT OF THE SENATE COMMITTEE ON AWARDS – PART A

### 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 Scholarships, Bursaries or Fellowships*, such offers shall be submitted to Senate for approval. (Senate, April 5, 2000)

### Observation

At its meeting of October 31, 2007, the Senate Committee on Awards approved nine new offers and six amended offers, as set out in Appendix A of the *Report of the Senate Committee on Awards – Part A*.

### Recommendation

On behalf of Senate, the Senate Committee on Awards recommends that the Board of Governors approve nine new offers and six amended offers, as set out in Appendix A of the *Report of the Senate Committee on Awards – Part A* (dated October 31, 2007). These award decisions comply with the published guidelines of November 3, 1999, and are reported to Senate for information.

Respectfully submitted,

Dr. Rick Baydack

Chair, Senate Committee on Awards

## **Appendix A**

### **MEETING OF THE SENATE COMMITTEE ON AWARDS October 31, 2007**

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

##### **Aramark Canada Ltd. Annual Student Bursaries**

Aramark Canada Ltd., as set out in Section 12(g) of the University Food Services Agreement made the 2<sup>nd</sup> day of April, 2007 between the University of Manitoba and Aramark Canada Ltd. and subject to the terms and conditions therein, provides \$5,000 on April 1 of each Term Year of the Agreement to offer bursaries for students at the University of Manitoba. One or more bursaries will be offered to undergraduate students who:

- (1) are enrolled part-time or full-time in any Faculty or School at the University of Manitoba;
- (2) (i) as entering students, have either achieved a minimum average of 70 percent on those courses considered for admission or have been admitted on mature or transfer student status or (ii) as continuing students have achieved a minimum degree grade point average of 2.0;
- (3) have demonstrated financial need on the standard University of Manitoba bursary application form.

The number and value of individual bursaries will be determined at the discretion of the selection committee.

The selection committee shall be named by the Director of Financial Aid and Awards.

##### **Furthering the Environment of Learning Fund (FUEL)**

Shell Canada has provided a gift (\$45,000) to the University of Manitoba, to establish four scholarships to recruit and retain top students to the I.H. Asper School of Business, the Faculty of Engineering, the Department of Computer Science, and the Department of Geological Sciences. Beginning in 2008-2009 and ending in 2010-2011, four scholarships, valued at \$3,750 each, will be offered to one undergraduate student in each of the aforementioned Faculties and Departments who:

- (1) is enrolled full-time in the final year of study in his/her degree program;
- (2) has achieved a minimum grade point average of 3.0;
- (3) has demonstrated participation in extracurricular activities such as student government, associations, clubs, athletic teams, religious or charitable organizations, part-time and/or summer employment;
- (4) has submitted the best response to an essay question to be set by the selection committee of his/her Faculty or Department each year.

Applicants will be required to submit the following documents to the appropriate selection committee:

- (a) an application form,
- (b) a one-page statement describing their extracurricular activities,
- (c) a response to an essay question (maximum one page) set by the selection committee.

The selection committee of: (a) I.H. Asper School of Business shall be named by the Dean of the School; (b) the Faculty of Engineering shall be the Faculty's Scholarships, Bursaries, and Prizes Committee; (c) the Department of Computer Science shall be the Department's Awards Committee; (d) the Department of Geological Sciences shall be the Department's Awards Committee.

### **Doris and Gar Hindle Bursary**

An endowment fund of \$22,500 has been established at the University of Manitoba in honour of Gar and Doris Hindle. Doris and Gar served Canada overseas during Word War II and later served the community of St. Vital as role models and educators. Doris was an elementary school teacher in the St. Vital School District for over 15 years and Gar worked at the Canadian National Railway as a signal maintainer for over 43 years. The award reflects the value they both placed on education. One bursary, valued at the available annual interest on the fund will be offered to an undergraduate or graduate student who:

- (1) is enrolled part-time or full-time, in any year of study, in a Bachelor of Education, Master of Education, or Doctorate of Education degree program;
- (2) as an undergraduate student, has achieved a minimum sessional grade point average of 2.5 in the previous year of study, or as a graduate student has achieved a minimum degree grade point average of 3.0 (or equivalent) based on the last 60 credit hours of study;
- (3) has demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee will be named by the Director of Financial Aid and Awards.

### **Minerva Safety in Engineering Design Prize**

With funding from the Workers Compensation Board Community Initiatives Program, Minerva SAFE Manitoba has established an endowment fund (initial gift of \$7,500) in the Faculty of Engineering at the University of Manitoba. The Manitoba Scholarship and Bursary Initiative has made a contribution to this fund. Minerva supports post-secondary engineering and business education programs that incorporate safety management in the core curriculum. The endowment fund will be used to offer a prize to encourage and recognize the inclusion of workplace safety and health issues within engineering design projects. One prize valued at eighty-five percent (85%) of the annual income on the fund will be shared equally among members of the team of undergraduate students who:

- (1) have successfully completed BIOE 4580 – *Biosystems Engineering Design Trilogy*, CIVL 4590 – *Design Project*, ECE 4600 – *Group Design Project*, MECH 4860 – *Engineering Design*;
- (2) have achieved a minimum grade of B (70%) on the design project completed for one of the courses listed in criterion (1);
- (3) have submitted the project that best address issues of workplace safety and health.

To be considered for the prize, a design team's project must meet the following criteria and objectives:

- (a) incorporate occupational health and safety considerations as a major component of the project;
- (b) demonstrate research into applicable safety and health legislation, regulations, and/or building codes;
- (c) demonstrate some original, cost-effective application or potential application.

Projects for consideration might also include a safety and health education and training component.

At the end of the Summer, Fall, and the Winter Terms, every instructor of BIOE 4580, CIVL 4590, ECE 4600, and MECH 4860 will nominate, for each section of his/her courses, the team that has submitted the project that best meets the requirements set out in the preceding paragraphs. Nominations, including a copy of each team's project, will be forwarded to the chair of the selection committee. The award selection will be made at the end of the Winter Term.

Fifteen percent (15%) of the annual income earned on the fund will be capitalized. The selection committee will periodically review the value of the fund and may recommend, to the Senate Committee on Awards, changes to the proportion of income distributed between the prize and the capital fund.



The selection committee will be the Scholarships, Bursaries and Awards Committee of the Faculty of Engineering and will include the instructors of BIOE 4580, CIVL 4590, ECE 4600, and MECH 4860, one industry representative, one representative of the Minerva SAFE Manitoba Steering Committee, and the Director of the Workplace Safety and Health Division of the provincial Department of Labour and Immigration (or designate).

### **Ernest E. Robertson Scholarship**

An endowment fund has been established by Biomass Energy Institute to support students who are interested in the development of biomass energy to reduce the use of fossil fuels and greenhouse gases. Ernest E. Robertson and his brother Duncan Robertson founded the Biomass Energy Institute in 1971. The objectives of the Institute were to accumulate and develop information on energy derived from biomass and to work with industry, government, and universities to objectively assess the viability of the use of biomass energy. The Institute, which was dissolved in 1994, has established this award to encourage further study of the use of biomass energy.

The available annual interest generated by the fund will be used to offer one scholarship to an undergraduate student who:

- (1) is enrolled full-time at the University of Manitoba (in alternating years in the Faculty of Agricultural and Food Sciences, the Faculty of Engineering, and the Clayton H. Riddell Faculty of Environment, Earth, and Resources);
- (2) has achieved a minimum degree grade point average of 3.5;
- (3) writes the best short essay (maximum 500 words) on the importance of continuing the work of the Biomass Energy Institute.

The selection committee in Agricultural and Food Sciences will be the Faculty of Agricultural and Food Sciences Awards Committee, that in Engineering will be the Scholarships, Bursaries, and Awards Committee, and that in Environment, Earth, and Resources will be the Awards and Honours Committee of the Clayton H. Riddell Faculty of Environment, Earth, and Resources.

### **Kathleen and Winnifred Ruane Fund**

With a bequest of \$450,000, Kathleen Ruane has established an endowment fund at the University of Manitoba to support Nursing students' academic and research objectives.

#### **Kathleen and Winnifred Ruane Graduate Research Grants in Nursing\***

*(\*NB Terms of reference for the Research Grants were presented to the Senate Committee on Awards for information only and are to be approved by the appropriate bodies in the Faculty of Nursing.)*

The annual income from the fund will be used to offer two research grants, valued at \$3,000 each, to graduate students who:

- (1) are either a Registered Nurse or a Registered Psychiatric Nurse;
- (2) are enrolled full-time or part-time in the Faculty of Graduate Studies in either a Masters' or a Doctoral program and whose academic supervisor holds an academic appointment in the Faculty of Nursing;
- (3) have submitted one of the two highest rated grant proposals for research related to their thesis or dissertation, as determined by the Manitoba Nursing Research Institute (MNRI) Research Grant Review Committee.

The selection committee will be the Research Review Committee of the Manitoba Nursing Research Institute (MNRI). Application on line at [www.umanitoba.ca/faculties/nursing](http://www.umanitoba.ca/faculties/nursing).

### **Kathleen and Winnifred Ruane Nurse Practitioner Scholarships**

The annual income from the fund will be used to offer two scholarships, valued at \$3,000 each, to graduate students who:

- (1) are enrolled full-time in the Faculty of Graduate Studies, Master of Nursing program in the Nurse Practitioner stream;
- (2) have achieved a minimum cumulative grade point average of 3.5 (or equivalent) based on the last 45 credit hours of study;
- (3) meet the selection criteria which may include, but not be limited to:
  - a. innovative past practices in nursing;
  - b. sound, innovative ideas for future practices;
  - c. clear articulation of ideas in writing; and
  - d. demonstrated leadership skills.

Eligible students will apply for this scholarship on or before the designated deadline date. Applicants will be required to submit a letter of application, including a description of how they meet the selection criteria, a copy of their official transcript, and two letters of reference, one of which should be from a faculty member.

The selection committee will be the Graduate Studies Committee of the Faculty of Nursing.

### **Kathleen and Winnifred Ruane Undergraduate Nursing Scholarships**

The annual income from the fund will be used to offer four scholarships, valued at \$1,500 each, to undergraduate students. Two scholarships will be offered to students in the third year of study and two will be offered to students in the fourth year of study, who:

- (1) are enrolled full-time in the Faculty of Nursing, in the Bachelor of Nursing program;
- (2) have achieved a minimum degree grade point average of 3.5 in specific theory courses and the corresponding clinical courses.

The selection committee shall be the Promotions and Awards Committee of the Faculty of Nursing.

### **Kathleen and Winnifred Ruane Undergraduate Nursing Bursaries**

The remaining annual income from the fund will be used to offer up to four bursaries, valued at \$1,000 each, to undergraduate students who:

- (1) are enrolled full-time in the third or fourth year of study in the Faculty of Nursing, in the Bachelor of Nursing program;
- (2) have achieved a minimum degree grade point average of 2.5 and are in good standing;
- (3) have demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee shall be named by the Director of Financial Aid and Awards.

Successful applicants from any of the above named awards are required to acknowledge financial support from the Kathleen and Winnifred Ruane Fund in all publications and presentations, where appropriate.

### **Anna Storgaard Scholarship**

Anna Storgaard's career was agronomy, as a specialist in forage crops. Her avocation was the nurture, support and encouragement of anyone who came into her life. Following formal education at

the University of Manitoba (B.S.A., M.Sc.) and Pennsylvania State University (Ph.D.), Anna returned to the University of Manitoba to teach in the Plant Sciences department (and to also conduct research, advise farmers, offer counsel to students and faculty, and lend her skills to administrative tasks). Anna was a well-deserved recipient of the 1971 Olive B. Stanton Award as Teacher of the Year at the University of Manitoba, of the Queen's Silver Jubilee Medal in 1977, of the Canadian Society of Agronomy Teaching Award in 1984, and was chosen for the Citizen Ambassador Program three times, including trips to Russia, to Australia/New Zealand, and to South America. She was also the well-deserved recipient of the affection, regard and loyalty of her friends, neighbours and family.

In memory of Dr. Storgaard, friends and graduates have established an endowment fund at the University of Manitoba to support undergraduate students in the Faculty of Agricultural and Food Sciences. The available annual income on the fund will be used to offer one scholarship to a student who:

- (1) is enrolled full-time in the third year of study in the Bachelor of Science (Agriculture) degree program with a major in Agronomy;
- (2) has achieved a minimum degree grade point average of 3.0;
- (3) demonstrates with proper documentation, participation and leadership abilities through volunteer and extracurricular activities, including student government, athletic teams, associations, clubs, charities, religious organizations.

The activities itemized in criterion (3) represent an important part of the scholarship selection. Preference will be given to candidates who have shown strong commitment in at least one of the above categories (quality vs. quantity).

The selection committee shall be named by the Faculty of Agricultural and Food Sciences Awards Committee.

## 2. AMENDMENTS

### **Isadore Coop Bursary in Architecture**

*At the request of the donor, the minimum required grade point average for the bursary will be increased from: 3.0 to: 3.5. One editorial change has also been made.*

### **Alexander H. Cottick Bursary in Restorative Dentistry**

#### **Alexander H. Cottick Scholarship in Restorative Dentistry**

*The opening paragraph for both awards has been revised to read:*

Dr. A.H. Cottick was a highly regarded dental practitioner and spent many years as a part-time staff member in the Department of Restorative Dentistry. He had a lifelong passion for dentistry and learning and continually demonstrated this through his devotion to his private patients and students. Dr. Cottick was recognized by his students with numerous teaching awards and was also a long-time member of the Canadian Academy of Restorative Dentistry. This (bursary/scholarship) is a result of Dr. Cottick's desire to leave a legacy to benefit dental students with an aptitude and interest in restorative dentistry...

### **Houston Family Bursary**

*At the request of the donor, the name of this award will be changed from: Houston Family Bursary to: Houston Family of Bradwardine Bursary.*

### **Bernice Warkov Safeer Prize for Excellence in Mathematical Sciences**

*A number of amendments have been made, at the request of the Faculty of Science. The value of the award has been increased from: \$150 to: \$250. The nomination process, which required Heads of the Departments of Computer Science, Mathematics, Physics and Astronomy, and Statistics to identify eligible candidates, has been replaced by an application process. Applications will now be invited from a short list of eligible candidates who meet the selection criteria set out in the terms of reference. The change in process required that a minimum grade point average be established; thus, criterion (3) has been revised to read: [who] has achieved a minimum degree grade point average of 3.5 and has displayed excellence in one or more areas of mathematical sciences (through course-work and/or independent study)."*

### **Vision Quest Bursary**

*At the request of the donor, Vision Quest Conferences Inc., the name of this award will be changed from: Vision Quest Bursary to: Vision Quest – Steve Prince Memorial Bursary in memory of a founding Director, Mr. Steve Prince.*

## **Report of the Senate Committee on Academic Review**

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### **Preamble**

1. The Terms of Reference for the Senate Committee on Academic Review are found on the web at:  
[http://www.umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/489.htm](http://www.umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/489.htm)
2. The Committee met on October 22, 2007 to consider a report from the Provost regarding academic program reviews.

### **Observations**

1. This report covers the progress of academic program reviews for the period July 2005 through September 2007.
2. The Policy and Procedures for Academic Program Reviews cover undergraduate and graduate program reviews. During the period under consideration, sixteen graduate program reviews were completed and nine undergraduate programs underwent accreditation visits.
3. Having reviewed summaries of the completed program reviews and accreditation reports, the Committee concluded that the academic program review process has been helpful in identifying strengths and suggesting improvements in our programs. In several cases, courses and programs have been significantly revised on the basis of these academic program reviews.
4. The Committee noted that graduate program reviews are proceeding according to the schedules approved by the Faculty of Graduate Studies and by the Provost.
5. With respect to undergraduate program reviews, the Committee observed that the scheduling of reviews of some interdisciplinary programs and inter-faculty programs has been delayed. The Committee urges that relevant Deans and Department Heads consider how these programs can be effectively and efficiently scheduled for review.
6. Complete reports of academic program reviews may be seen in the office of the relevant Dean or program head.
7. Overall, the Committee is pleased to report that the Policy and Procedures governing Academic Program Reviews have been followed by all academic units.

Respectfully submitted,

Richard Lobdell, Chair  
Senate Committee on Academic Review



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 6, 2007

**TO:** Jeff Leclerc, University Secretary  
**FROM:** Robert Kerr, Vice-President (Academic) & Provost  
**SUBJECT:** Academic Program Reviews: Report to SCAR

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I am pleased to submit this report to the Senate Committee on Academic Reviews in respect of those reviews completed since my last report of September 2005.

The status of graduate program reviews is summarized in Table 1, attached. Since my last report, sixteen program reviews have been completed, and additional fifteen programs have completed the external review stage, and some twenty-seven more programs are now completing the internal self-study. All graduate program reviews are on schedule, with the exception of the inter-disciplinary Ph.D. program in Foods and Nutritional Science which has been delayed in order to attend to the review of programs in Food Science.

Several common themes run through these completed graduate program reviews. With respect to students, most reviews are critical of the level of financial support available to graduate students. A number of reviews urge improvement of laboratory and office space for graduate students. And virtually all recommend improvements in the flow of program information to graduate students. With regard to curricular issues, several reviews urge that courses and programs be revised, and a number of academic programs have consequently made quite significant revisions to their programs. Many reviews have commented on the apparently long average time to completion of degrees and these reviews urge programs to investigate this issue with a view to reducing the time to completion.

Overall, the sixteen completed graduate program reviews have been very helpful in identifying strengths and suggestion improvements. Programs have generally accepted or adapted the recommendations and suggestions of the reviewers. As we gain more experience with the graduate program review process, we can expect that reviews in process and those scheduled to begin will prove useful in maintaining and improving the quality of our graduate programs.

Less than two years ago, Senate extended the academic program review process to all undergraduate programs. The status of undergraduate program reviews is summarized in Table 2. In the case of accredited programs, our Policy and Procedures accept accreditation reviews in lieu of academic program reviews and this applied to nine of our undergraduate programs during 2006-07. As shown in Table 2, a number of undergraduate programs have begun the review process.

GRADUATE PROGRAM REVIEWS									
Status As Of									
09 Oct 2007									
Year	Graduate Program	Scheduled to Begin	Self-Study Report	Review Team's Report	Program Reply	Budget Dean's Comments	FGS Dean's Comments	Provost's Report to SCAR	
2007/02	Law	Oct 2001	Nov 2002	Apr 2003	Jul 2003		Oct 2003	Sep 2005	
	Oral & Maxillofacial Surgery	Nov 2001	Aug 2002	Apr 2003	Jul 2003		Oct 2003	Sep 2005	
	Periodontics	Nov 2001	Aug 2002	Apr 2003	Apr 2003		Nov 2003	Sep 2005	
	Oral Biology	Nov 2001	Jul 2002	May 2003	Jul 2003		Oct 2003	Sep 2005	
	Orthodontics	Dec 2001	Jul 2002	May 2003	Jul 2003		Oct 2003	Sep 2005	
	Physiology	Jan 2002	2002	Mar 2003	2003		Nov 2003	Sep 2005	
	Medical Microbiology	Feb 2002	Oct 2002	Mar 2003	Aug 2003		Oct 2003	Sep 2005	
	Icelandic	Mar 2002	May 2005	N/A	N/A		May 2005	Sep 2005	
	Classics	Apr 2002	Mar 2004	Oct 2004	Mar 2005	Apr 2006	May 2005	Sep 2005	
	Anthropology	May 2002	Jan 2003	Jun 2003	Jul 2003		Nov 2003	Sep 2005	
	French	Jun 2002	2002	May 2003	May 2003		Dec 2004	Sep 2005	
2002/03	Education (M.Ed.)	Oct 2002	Aug 2003	Dec 2003	Oct 2004		Dec 2004	Sep 2005	
	Chemistry	Nov 2002	Jul 2003	Feb 2004	Oct 2004		Dec 2004	Sep 2005	
	Botany	Dec 2002	Mar 2004	Nov 2004	May 2005		May 2005	Sep 2005	
	Microbiology	Jan 2003	Sep 2003	Apr 2004	Jun 2004		Dec 2004	Sep 2005	
	Zoology	Feb 2003	Nov 2003	Feb 2004	Dec 2004		May 2005	Sep 2005	
	Physics and Astronomy	Mar 2003	2003	Mar 2004	May 2004		Dec 2004	Sep 2005	
	Pharmacy	Apr 2003	2004	Mar 2004	Nov 2004		Dec 2004	Sep 2005	
	Pathology	May 2003	Jan 2004	n/d 2004	Jun 2004		Dec 2004	Sep 2005	
2003/04	Surgery	Jul 2003	Apr 2004	Jun 2004	Nov 2004		Dec 2004	Sep 2005	
	English	Nov 2003	Aug 2004	2004	Feb 2005		May 2005	Sep 2005	
	Economics	Dec 2003	n/d 2004	May 2005	Jan 2006	Apr 2006	May 2006	Oct 2007	
	Architecture (Ext. Accred.)	Winter 04	N/A	2004	Oct 2004		Dec 2004	Sep 2005	
	Interior Design (Ext. Accred.)	2004	2004	Jul 2005	Jan 2006	Mar 2006	Mar 2006	Oct 2007	
	Agricultural Economics	Jan 2004	Sep 2004	Mar 2005	Jan 2007	Oct 2007			
	Plant Science	Feb 2004	2004	2005	Dec 2005	Feb 2006	May 2006	Oct 2007	
	Animal Science	Mar 2004	2004	Jun 2005	Nov 2005	Mar 2006	Jun 2006	Oct 2007	
	Entomology	Apr 2004	Aug 2006	Dec 2006	Mar 2007	Mar 2007	Jul 2007	Oct 2007	
	Food Science	May 2004	Feb 2005	May 2005	Jun 2006	Oct 2007			
	Soil Science	Jun 2004	Mar 2005	Nov 2005	Mar 2006	Mar 2006	Aug 2006	Oct 2007	
2004/05	Landscape Architecture (Ext. Accred.)	Winter 05	Nov 2004	2005	Nov 2005	Mar 2006	Jun 2006	Oct 2007	
	Philosophy	Feb 2005	Oct 2005	May 2006	Sep 2006	Oct 2006	Jul 2007	Oct 2007	
	Religion	Mar 2005	2005	May 2006	Sep 2006	Oct 2006	Jan 2007	Oct 2007	
	Education (Ph.D.)	Jun 2005	Sep 2006	Nov 2006	Mar 2007	Apr 2007	Jul 2007	Oct 2007	
2005/06									
	Physical Education & Recreation Studies	Oct 2005	Sep 2006	Feb 2007	Apr+Feb 07				
	Pharmacology & Therapeutics	Nov 2005	Jul 2006	Jan 2007	Apr 2007				



GRADUATE PROGRAM REVIEWS									
Status As Of 09 Oct 2007									
Year	Graduate Program	Scheduled to Begin	Self-Study Report	Review Team's Report	Program Reply	Budget Dean's Comments	FGS Dean's Comments	Provost's Report to SCAR	
( 01 July - 30 June)									
	Immunology	Dec 2005	Dec 2006	Jun 2007	Sep 2007				
	Social Work (MSW Accred.)	2006	2006	2007					
	Medical Rehabilitation ( MSc)	Jan 2006	2006	Mar 2007	Jul 2007	Sep 2007			
	Biochemistry & Medical Genetics	Feb 2006	Jan 2007	Apr 2007					
	Community Health Sciences	Mar 2006	Jan 2007	Apr 2007	Jul 2007	Sep 2007			
	Human Anatomy & Cell Science	Apr 2006	Dec 2006	Jul 2007					
	Human Nutritional Science (MSc)	May 2006	Jan 2007	Aug 2007					
	Foods and Nutritional Science (PhD)	May 2006							
2006/07	Computer Science	Oct 2006							
	Mathematics	Nov 2006							
	Biosystems Engineering	Dec 2006							
	Civil Engineering	Dec 2006							
	Electrical & Computer Engineering	Dec 2006							
	Mechanical & Manufacturing Engineering	Dec 2006							
	Sociology	Jan 2007							
	Geological Sciences	Feb 2007							
	Psychology	Feb 2007							
	History	Mar 2007							
	Linguistics	Apr 2007							
	City Planning (Ext. Accred.)	Spring 07							
	German	May 2007							
	Native Studies	May 2007							
2007/08	Asper School of Business	Fall 07							
	Political Studies	Oct 2007							
	Public Administration	Oct 2007							
	Canadian Studies (CUSB)	Nov 2007							
	Education (CUSB)	Nov 2007							
	Social Work (PhD)	Dec 2007							
	NRI	Jan 2008							
	Environment & Geography	Feb 2008							
	Music	Apr 2008							
	Disability Studies	May 2008							
	Statistics	May 2008							
	Family Social Sciences	Jun 2008							
	Nursing	2009							
	Textile Sciences	2012							

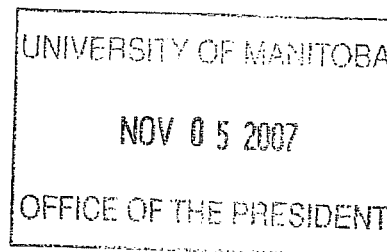
<b>UNDERGRADUATE PROGRAM REVIEWS</b>	
As at 09 Oct 2007	
	<b>REVIEW STATUS</b>
<b>FACULTY OF AGRICULTURAL AND FOOD SCIENCES</b>	
<b>Undergraduate Programs</b>	
Bachelor of Science in Agriculture	Next Accreditation 2009
Bachelor of Science in Agribusiness	Next Accreditation 2009
Bachelor of Science in Agorecology	Next Accreditation 2009
Bachelor of Science in Food Science	Next Accreditation 2009
Diploma in Agriculture	2009
<b>FACULTY OF ARCHITECTURE</b>	
Bachelor of Environmental Design	Scheduled to begin Sep 2011
<b>SCHOOL OF ART</b>	
Bachelor of Fine Arts in Art (Hon)	Scheduled to begin Sep 2010
Bachelor of Fine Arts in Art History (Hon)	Scheduled to begin Sep 2010
Bachelor of Fine Arts in Art	Scheduled to begin Sep 2010
Bachelor of Fine Arts in Art History	Scheduled to begin Sep 2010
Diploma in Art	Scheduled to begin Sep 2010
<b>FACULTY OF ARTS</b>	
<b>Anthropology</b>	
Minor, BA (Gen), BA (Adv)	Scheduled to begin 2009
<b>Classics</b>	
Classical Studies: Minor, BA (Gen), BA (Adv)	Scheduled to begin 2009
Greek: Minor, BA (Adv)	Scheduled to begin 2009
Latin: Minor, BA (Ad)	Scheduled to begin 2009
<b>Economics</b>	
Economics: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2007
Joint Economics - Mathematics Honours Program	Scheduled to begin Sep 2007
Joint Economics - Statistics Honours Program	Scheduled to begin Sep 2007
<b>English</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin July 2007
<b>French, Spanish, and Italian</b>	
French: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2008
Italian: Minor, BA (Gen), BA (Adv)	Scheduled to begin Sep 2008
Spanish: Minor, BA (Gen), BA (Adv)	Scheduled to begin Sep 2008
<b>German and Slavic Studies</b>	
German: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin May 2009
Polish: Minor	Scheduled to begin May 2009
Russian: Minor, BA (Gen), BA (Adv)	Scheduled to begin May 2009
Ukrainian: Minor, BA (Gen), BA (Adv)	Scheduled to begin May 2009
<b>History</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	"After 2007"
<b>Icelandic</b>	
Minor, BA (Gen)	In progress: began Sep 2006
<b>Interdisciplinary Studies</b>	
Asian Studies: Minor, BA (Gen)	In progress: began Winter 2007
Canadian Studies: Minor, BA (Hon)	To be determined
Catholic Studies: Minor	To be determined
Central & East European Studies: BA (Gen), BA (Adv), BA (Hon)	To be determined
Drama: BA (Gen), BA (Adv)	To be determined
Film Studies: Minor, BA (Gen), BA (Adv)	To be determined
Global Political Economy: BA (Gen), BA (Adv)	To be determined
History of Art: Minor, BA (Gen)	To be determined
Labour and Workplace Studies: Minor, BA (Gen), BA (Adv)	To be determined
Latin American Studies: Minor	To be determined
Medieval & Renaissance Studies: Minor, BA (Gen), BA (Adv)	To be determined
Near Eastern & Judaic Studies: Minor	To be determined
Theatre: Minor	To be determined
Ukrainian Canadian Heritage Studies: Minor, BA (Gen), BA (Adv)	To be determined
Urban Studies: Minor	To be determined
Women's Studies: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2008

<b>UNDERGRADUATE PROGRAM REVIEWS</b>	
As at 09 Oct 2007	
	<b>REVIEW STATUS</b>
<b>Linguistics</b>	
Minor, BA (Gen), BA (Adv)	To be determined
<b>Native Studies</b>	
Native Languages: Minor	In progress: began Sep 2006
Native Studies: Minor, BA (Gen), BA (Adv)	In progress: began Sep 2006
<b>Philosophy</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	To be determined
<b>Political Studies</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2008
<b>Psychology</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2007
<b>Religion</b>	
Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2009
<b>Sociology</b>	
Criminology: BA (Gen), BA (Adv)	Scheduled to begin Jan 2008
Sociology: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Jan 2008
<b>ASPER SCHOOL OF BUSINESS</b>	
Bachelor of Commerce (Hon)	Next Accreditation 2008/09
<b>FACULTY OF DENTISTRY</b>	
Dental Hygiene Diploma	Next Accreditation Feb 2008
Doctor of Dental Medicine	Next Accreditation Feb 2008
<b>FACULTY OF EDUCATION</b>	
After-Degree Bachelor of Education	In progress: began Jan 2007
Integrated Degree: Music and Education	In progress: began Jan 2007
Post-Baccalaureate Diploma in Education	To be determined
<b>FACULTY OF ENVIRONMENT, EARTH, AND RESOURCES</b>	
Environmental Science: BEnvSc (Minor), (Gen), (Major), (Hon)	Scheduled to begin Sep 2010
Environmental Studies: BEnvSt (Minor), (Gen), (Major), (Hon)	Scheduled to begin Sep 2010
Geography: Minor, BA (Gen), BA (Adv), BA (Hon)	Scheduled to begin Sep 2010
Geology: BSc (Major), BSc (Hon)	Scheduled to begin Sep 2009
Geophysics: BSc (Major), BSc (Hon)	Scheduled to begin Sep 2009
<b>FACULTY OF ENGINEERING</b>	
<b>Biosystems Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>Civil Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>Computer Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>Electrical Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>Manufacturing Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>Mechanical Engineering</b>	
BSc	Completed 2007 (Next Accred 2010)
<b>FACULTY OF HUMAN ECOLOGY</b>	
Bachelor of Health Sciences	To be determined
Bachelor of Health Studies	To be determined
Bachelor of Human Ecology	Scheduled to begin 2009
Bachelor of Human Ecology (Family Social Sciences)	Scheduled to begin 2008
Human Nutritional Sciences: BSc	Next Accreditation Visit 2009
Textile Sciences: BSc	Scheduled to begin 2009

<b>UNDERGRADUATE PROGRAM REVIEWS</b>	
As at 09 Oct 2007	
	<b>REVIEW STATUS</b>
<b>FACULTY OF KINESIOLOGY &amp; RECREATION MANAGEMENT</b>	
Bachelor of Physical Education: BPE	Scheduled to begin Spring 2009
Bachelor of Kinesiology: BKIN	Scheduled to begin Spring 2009
Bachelor of Recreation Management & Community Development: BRMCD	Scheduled to begin Spring 2009
<b>FACULTY OF LAW</b>	
Bachelor of Laws: LLB	Scheduled to begin Sep 2008
<b>FACULTY OF MEDICINE</b>	
Doctor of Medicine: MD	Next Accreditation Visit 2011
Physical Therapy: BMR (PT)	Next Accreditation Visit 2008
Respiratory Therapy: BMR (RT)	Next Accreditation Visit 2008
<b>FACULTY OF MUSIC</b>	
Bachelor of Music	Scheduled to begin Sep 2010
Bachelor of Music (Composition)	Scheduled to begin Sep 2010
Bachelor of Music (History)	Scheduled to begin Sep 2010
Bachelor of Music (Performance)	Scheduled to begin Sep 2010
Post-Baccalaureate Diploma in Music Performance	Scheduled to begin Sep 2010
<b>FACULTY OF NURSING</b>	
Bachelor of Nursing: BN	Accreditation 2006 (Next Accred 2010)
<b>FACULTY OF PHARMACY</b>	
Bachelor of Science in Pharmacy	Completed 2007 (Next Accred 2013)
<b>FACULTY OF SCIENCE</b>	
<b>Actuarial Mathematics (with the Asper School)</b>	
Actuarial Mathematics: BSc (Hon)	Scheduled with Asper Accreditation, 2008/09
Joint Mathematics - Actuarial Mathematics Honours: BSc (Hon)	Scheduled with Asper Accreditation, 2008/09
Joint Statistics - Actuarial Mathematics Honours: BSc (Hon)	Scheduled with Asper Accreditation, 2008/09
<b>Biological Sciences</b>	
Biology: BSc (Major)	Scheduled to begin Sep 2009
Botany: BSc (Major), BSc (Hon), BSc (Hon) Double	Scheduled to begin Sep 2009
Ecology: BSc (Major), BSc (Hon)	Scheduled to begin Sep 2009
Zoology: BSc (Major), BSc (Hon), BSc (Hon) Double	Scheduled to begin Sep 2009
<b>Chemistry</b>	
Chemistry: BSc (Major), BSc (Hon)	In progress: began 2007
Joint Microbiology - Chemistry Program in Biochemistry: BSc (Major), BSc (Hon)	In progress: began 2007
Joint Microbiology - Chemistry Program in Biotechnology: BSc (Hon)	In progress: began 2007
<b>Computer Science</b>	
Computer Science: BCS (Major), BCS (Hon)	Completed 2007 (Next Accred 2012)
Joint Computer Science - Mathematics Program: BSc (Hon)	Scheduled with Math to begin 2008
Joint Computer Science - Physics & Astronomy Program: BSc (Hon)	Scheduled to Physics begin 2009
<b>Genetics</b>	
BSc (Hon)	Scheduled with Biology to begin 2009
<b>Mathematics</b>	
Mathematics: BSc (Major), BSc (Hon), BSc (Hon) Double	Scheduled to begin 2008
Applied Mathematics with Options: BSc (Major)	Scheduled to begin 2008
Joint Mathematics - Actuarial Mathematics Honours: BSc (Hon)	Scheduled to begin 2008
Joint Computer Science - Mathematics Program: BSc (Hon)	Scheduled to begin 2008
Joint Mathematics - Physics & Astronomy: BSc (Hon)	Scheduled to begin 2008
Joint Statistics - Mathematics Program: BSc (Hon)	Scheduled to begin 2008
Joint Economics - Mathematics Honours Program: BSc (Hon)	Scheduled to begin 2008
<b>Microbiology</b>	
Microbiology: BSc (Major), BSc (Hon), BSc (Hon) Double	In progress: began 2007
Joint Microbiology - Chemistry Program in Biochemistry: BSc (Major), BSc (Hon)	In progress: began 2007
Joint Microbiology - Chemistry Program in Biotechnology: BSc (Hon)	In progress: began 2007

<b>UNDERGRADUATE PROGRAM REVIEWS</b>	
As at 09 Oct 2007	
<b>Physics &amp; Astronomy</b>	<b>REVIEW STATUS</b>
Physics & Astronomy: BSc (Major), BSc (Hon)	Scheduled to begin 2009
Joint Computer Science - Physics & Astronomy Program: BSc (Hon)	Scheduled to begin 2009
Joint Mathematics - Physics & Astronomy: BSc (Hon)	Scheduled to begin 2009
<b>Statistics</b>	
Statistics: BSc (Major), BSc (Hon), BSc (Hon) Double	Scheduled to begin 2008
Joint Statistics - Actuarial Mathematics Honours: BSc (Hon)	Scheduled to begin 2008
Joint Statistics - Mathematics Program: BSc (Hon)	Scheduled to begin 2008
Joint Economics - Statistics Honours Program: BSc (Hon)	Scheduled to begin 2008
<b>Other</b>	
Psychology: BSc (Major), BSc (Hon)	With Arts: Scheduled Sep 2007
<b>FACULTY OF SOCIAL WORK</b>	
Bachelor of Social Work: BSW	Completed Accreditation 2007
<b>ST BONIFACE COLLEGE</b>	
Undergraduate Programs	To be determined

October 30, 2007



Dr. Richard Lobdell  
Vice-Provost (Programs)  
University of Manitoba  
208 Administrative Building  
Winnipeg MB R3T 2N2

Dear Dr. Lobdell: *Richard*

**Re: Statement of Intent for: Bachelor of Science (Hon) Forensic Science**

The Council on Post-Secondary Education has reviewed the above noted statement of intent submitted by the University of Manitoba.

Please feel free to proceed with developing the full program proposal which must be submitted to the Council for consideration.

As you know, approval of the statement of intent does not necessarily mean that the program will ultimately be approved.

Should you have any questions or concerns, please do not hesitate to contact me at 945-4779.

Sincerely,

A handwritten signature in dark ink, appearing to read "Susan Deane".

Susan Deane  
Manager, University Relations

c. Sid Rogers

## **PRESIDENT'S REPORT: December 5, 2007**

My last report to Senate was submitted for its meeting on October 3, 2007. Part A of this report is organized into sections on General, Academic, Research, Administrative, and External matters. Part B contains a list of significant external engagements during the time period of this report.

### **I. GENERAL**

#### **1. Expert Panel on Federal Laboratories**

The Federal Government (Treasury Board) has established an independent expert panel to consider options for transferring non-regulatory Federal laboratories to universities or the private sector. The panel is to “advise the government on options for managing non-regulatory federal laboratories so that Canada benefits from a strong and collaborative science and technology sector”. The panel is chaired by Dr. Arnold Naimark (President Emeritus, University of Manitoba), with the following members: Dr. Kevin Keough, (former Vice-President of Research and International Relations at Memorial University and current President of the Alberta Heritage Foundation); Dr. Kelvin Ogilvie, (Past-President of Acadia University who went to Acadia following appointments as Professor of Chemistry, first at the University of Manitoba, then at McGill); and Dr. Clive Willis, (former Vice-President of Research at the National Research Council of Canada).

The government notes that there is already interaction between federal scientists and universities and industry, but wants to explore options for even greater synergy. “Transfer” should not imply “take-over” but rather could include models such as collaboration and joint management. The panel is to report to the President of the Treasury Board by late fall 2007 identifying up to five laboratories that could be considered as candidates for new models. The panel is organizing six regional round tables. A round table was held October 16 in Winnipeg (for Manitoba and Saskatchewan), and was attended by representatives of the University including Dr. Joanne Keselman, Vice-President (Research), and representatives of industry and federal laboratories. Discussions are underway with representatives of federal labs in Winnipeg to determine what models might be possible and to prepare submissions to the panel. There are four non-regulatory federal laboratories in Winnipeg: Institute for Biodiagnostics (NRC), Freshwater Fisheries Institute (Environment, Fisheries and Oceans), National Microbiology Laboratory (Health Canada) and Cereals Research Centre (Agriculture Canada).

#### **2. “It’s My Future”**

The University’s Fall marketing campaign is on the theme “It’s My Future”. The focus of the campaign is to promote the University of Manitoba’s role in the lives and successes of a diverse cross-section of students and young alumni, and by extension, its broader role in the success of the community and province. In addition to the more traditional media such as billboards, transport bus posters and radio and newspaper ads, the web component of the

campaign features profiles and blogs of 17 students and alumni on the *itsmyfuture.ca* website. The web component will have a presence through the end of the academic year with the bloggers remaining active. Promotional materials on the same theme have also been developed for Enrolment Services to use in school visits and recruitment fairs. Data show that each visitor to the website is viewing an average of 12 pages per visit which is an indication of the interest in the information. Further a significant number of visitors come to the site via Facebook accounts of the bloggers. This approach is an example of marketing based on today's media preferences of young people.

### **3. Estimates Meeting**

Members of the Council on Post-Secondary Education (COPSE) visited the University on September 25, 2007 to review the estimates of operating and capital requirements for 2008/2009. Representing the University were Ms. Shirley Van Schie, Vice-Chair of the Board of Governors, the President, and the Vice-Presidents. The Vice-Presidents presented an overview of their portfolios, including some challenges with the Vice-President (Administration) outlining the financial requirements for 2008-09 and indicating that if the tuition freeze remains in force, the University would require a 10.7% increase for *status quo*. I concluded by summarizing the important role the University plays in the Province in the form of "if the University of Manitoba did not exist then the Province would..."

### **4. "Take Our Kids to Work" Program**

The "Take Our Kids to Work" (TOKTW) program has been in place in Canada since 1994. The traditional approach is for grade 9 students to spend the day at the University shadowing a parent/host staff member. One disadvantage of this approach is that in some instances, students are unable to spend the day with their hosts for safety and related reasons such that the "shadowing" had to be taken in a different department. The day could also be long for some students. In this respect I am reminded of the son of a colleague in administration who after shadowing his parent through the day of non-stop meetings, said on his evaluation form: "I found the day very helpful. I soon concluded that I do not want to be a University Administrator!"

The 2007 program, held on November 7, 2007, adopted a new approach where grade 9 students could choose from three streams with a number of activities in each to augment the visit to the actual work place. These activities included: nursing lab skills (Faculty of Nursing), physical activities e.g. rock climbing (Kinesiology and Recreation Management), cool computer skills (micro-computer centre), earth rocks (tour of Geological Sciences), retail management (the Bookstore), a day in the life of a student, snake show (Biological Sciences), how today's learner uses the library. I extend my appreciation to Dr. Lynn Smith, Executive Director of Student Services and Mr. Terry Voss, Executive Director of Human Resources, who co-chaired the committee developing this new approach, and to all those who assisted in this new endeavour.



## **II. ACADEMIC MATTERS**

### **Faculty of Agricultural and Food Sciences**

- Dr. Trust Beta, Food Science, was an invited international speaker at the 19<sup>th</sup> South African Association for Food Science and Technology Biennial Congress and Exhibition held at the International Convention Centre, Durban, South Africa, in early September.
- A team of Food Science students won first place at the Association of American Cereal Chemists International (AACCI) food product development competition held in early October in San Antonio, TX. The competition invites students to create a new product containing at least one major cereal ingredient. The students designed a new snack food called Globix using wheat and bean flours and a variety of global flavours including jalapeno, mild curry, wasabi and creamy dill. This was the first year a Canadian team was invited to the competition.
- Dr. Dilantha Fernando, Plant Science was invited by the United Nations Development Program and the University Grants Commission of the Ministry of Higher Education in Sri Lanka to work at the University of Peradeniya as a UN expert for one month to train, teach and research pesticide-free methods of disease and pest management.
- The Faculty's AgCentennial publication "*Times of their lives - Milestones, memories and mischief*" which documents the Faculty's significant events and notable people over the last 100 years is now available. The 232-page softcover book includes over 10,000 names of faculty and graduates.
- The Faculty, along with the Manitoba Institute of Agrologists and Manitoba Labour and Immigration, announced the launch of the Internationally Educated Agrologist pilot program. This new program will help integrate internationally-trained agrologists into their chosen fields through eight months of study and four months paid work experience with an agricultural company in Manitoba. Currently, 13 students are enrolled in the program.

### **Faculty of Architecture**

- Interior Design Master's student Celeste Brunel has been chosen as a student winner in the 10th Annual Best in Canada Design Competition. Her submission, called *Extending the limits: design through motion*, was taken from her practicum.

### **School of Art**

- Dr. Marilyn Baker, (Art History) is the curator for the exhibition "FitzGerald in Context", using original art works, photographs, letters, archival materials and publications about this last member of the Group of Seven. The School of Art building is named after Lionel

LeMoine FitzGerald, who was principal of the Winnipeg School of Art from 1929 to 1949, a predecessor of the current School.

## Faculty of Arts

- On September 14<sup>th</sup>, the annual Arts Celebrating Arts luncheon was held in conjunction with Homecoming. This year the celebrated alumni were:

Elaine G. Ali, O.M., Senior Vice-President, CTV Stations Group and advocate for women, received her B.A. from the University of Manitoba in 1974. Past President of Women's Television Network (WTN) and Vice-President and General Manager of CKY-TV, Winnipeg's CTV affiliate, she has been a passionate developer of opportunities for women in the broadcast industry.

John C. Courtney, Professor Emeritus, Political Studies (Saskatchewan), received his B.A. from the University of Manitoba (1958) before completing his M.B.A. (Western Ontario), M.A. and Ph.D. (Duke, USA), and earning his Doctor of Letters (Saskatchewan).

Muriel A. Smith, Manitoba politician, educator, and human rights advocate, received her B.A. from the University of Manitoba and continued her studies at the Oxford Institute of Education (England).

- Dr. Murray Singer, Psychology, was selected as Faculty of Arts Professor of the Year, and Lea Stirling, Classics and Canada Research Chair in Roman Archaeology, received the Faculty of Arts Award in Internationalization.
- Dr. Paul Thomas, Duff Roblin Professor in Government, was awarded the 2007 Pierre De Celles/IPAC Award for Excellence in Teaching Public Administration, at the Institute of Public Administration of Canada's annual conference.
- Guy Maddin, filmmaker in residence, Theatre Program, was awarded the Best Canadian Feature Film at the Toronto International Film Festival for his documentary *My Winnipeg*.

## Books

Dr. Klaus Klostermaier, Distinguished Professor Emeritus, Religion, *A Survey of Hinduism*, 3rd ed. Albany: State University of New York Press (2007).

Dr. Neil McArthur, Philosophy, *David Hume's Political Theory: Law, Commerce, and the Constitution of Government*. Toronto: University of Toronto Press (2007).

Dr. Ravi Vaitheespara, History, *Theorizing the National Crisis: Sanmugathason, the Left and the Ethnic Conflict in Sri Lanka*. Sri Lanka: Social Scientists' Association (2007).

## **Faculty of Dentistry**

- The periodontics division of Dental Diagnostic and Surgical Sciences received a grant of \$97,000 from Online Biopharma Inc. to support clinical trials evaluating the use of lasers in the treatment of periodontal disease. Dr. Edmond Ghiabi will lead the team that includes Drs. Vijay Pruthi, Anastasia Kelekis-Cholakis and Catalena Birek.

## **Faculty of Law**

- For the 2007-2008 academic year, the Honourable Madam Justice Laurie P. Allen, a justice of the Manitoba Court of Queen's Bench (Family Division), is visiting the Faculty of Law as a Professional Affiliate (Judge in Residence). She is currently teaching one section of the Profession and Professional Responsibility course to third year students.
- The third edition of *The Law of Torts* by Professor Philip Osborne has just been published by Irwin Law. The book is widely used in law schools across Canada and cited by the courts.
- Professor Roland Penner has written a book of memoirs (*A Glowing Dream: A Memoir*, with a foreword by the Honourable Howard Pawley, P.C., J. Gordon Shillingford Publishing Inc.). Manitoba's former Attorney General, Professor Penner was appointed as a Member of the Order of Canada for his contribution to human rights. He served as Dean of Law between 1989 and 1994.

## **Faculty of Nursing**

- Dr. Lesley Degner, received the University of Texas, M.D. Anderson Cancer Centre Palliative/Hospice Lifetime Achievement Award during the 11th Annual Interdisciplinary Approach to Symptom Control, Palliative and Hospice Care Conference held in Houston, Texas.

## **Faculty of Science**

- The RoboCup team (Drs. John Anderson, Jacky Baltes and students Barrett Ens and Michal de Denus) won third place for their demonstrations in two separate events at the 11<sup>th</sup> RoboCup International Competition and Conference in Atlanta.
- Dr. Peter Loly, Physics and Astronomy was invited to give the leading keynote address at the 16th International Workshop on Matrices and Statistics in Windsor, Ontario.

## **St. John's College**

- St. John's hosted the fourth prairies conference September 27-29 entitled "The Prairies in 3-D: disorientations, diversities, dispersals". The keynote speakers were Dr. Len Findlay and Dr. Valerie Korinek from the University of Saskatchewan. Papers were presented in seven sessions.
- On November 4th, St John's College held its 141st Annual Convocation. Honorary degrees were awarded to Dr. David Bright (Doctor of Canon Law), Mrs. Janice Filmon (Doctor of Canon Law), and the Reverend E. Timothy Sale (Doctor of Divinity).

## **III. RESEARCH MATTERS**

### **Honours and Distinctions**

- On September 7, 2007, one University of Manitoba faculty member was awarded a new Canada Research Chair, and another had his existing Chair renewed. This brings the total number of Canada Research Chairs at the University of Manitoba to 48.

Dr. Samar Safi-Harb, Physics and Astronomy, was awarded a Tier 2 Canada Research Chair in Supernova Astrophysics. Dr. Safi-Harb is an expert on supernova remnants, which are the pieces that remain after a supernova explodes. Her research is focussed on understanding how these remnants contribute to the dynamics, evolution and enrichment of our galaxy.

Distinguished Professor Frank Hawthorne, Geological Sciences, had his existing Tier 1 Canada Research Chair in Crystallography and Mineralogy renewed for another seven years. Dr. Hawthorne specializes in the crystal structures of complex, rock-forming minerals, as well as the chemical reactions involved in a wide range of processes that have a significant impact on the environment.

The two awards represent an investment of more than \$2 million for the University of Manitoba. The Canada Research Chairs program will contribute \$1.9 million, and the Canada Foundation for Innovation (CFI) will provide an additional \$125,000 for infrastructure support.

- Two University of Manitoba faculty members have been elected as Fellows of the Canadian Academy of Health Sciences (CAHS).

Psychiatry professor Harvey Chochinov holds a Canada Research Chair in palliative care, and is director of the Manitoba Palliative Care Research Unit at CancerCare Manitoba. Physiology professor Grant Pierce is executive director of research at St. Boniface

General Hospital. Both were inducted into the Academy at a special ceremony in Montreal on September 18.

Election to Fellowship in the CAHS is considered to be one of the highest honours for individuals in the Canadian health sciences community. Fellows are elected by their peers in recognition of outstanding career accomplishments and exceptional leadership, creativity and commitment to advancing academic health sciences.

- On October 16, 2007, University of Manitoba President and Vice-Chancellor, Dr. Emőke J. E. Szathmáry, was awarded the 2007 Lieutenant Governor's Medal for Excellence in Public Administration.

The award, established in 1987, recognizes public sector practitioners whose careers exhibit the highest standard of excellence, dedication and accomplishment. Past recipients include: Dr. Ron Duhamel, former MP for Saint Boniface and Veterans Affairs minister; Dr. Paul Thomas, University of Manitoba professor of political studies and Dr. Arnold Naimark, former President and Vice-Chancellor of the University of Manitoba.

### **Grants Received**

- Dr. John O'Neil and Dr. Catherine Cook, Community Health Sciences, have been awarded a CIHR Network Environments for Aboriginal Health Research grant of \$1,760,000 over three years for the project, "Manitoba Network Environment for Aboriginal Health Research."
- Dr. Ying Chen, Biosystems Engineering, was awarded an NSERC Strategic Project grant of \$314,860 over three years for her project, "Bio-Fiber Materials and Fiber Decorticating Processes - Modeling and Measurements."
- Dr. Rick Holley, Food Science, was awarded an NSERC Strategic Project grant of \$515,900 over three years for his project, "Use of Deheated Yellow Mustard to Control E.Coli 0157:H7 in Uncooked Fermented Sausages and Dry Cured Ham."
- Dr. Digvir Jayas, Biosystems Engineering, was awarded an NSERC Strategic Project grant of \$485,081 over three years for his project, "Design, Fabrication and Evaluation of an Integrated CO<sub>2</sub>-Odour Sensor for Grain Quality Monitoring."
- Dr. Jelena Misic, Computer Science, was awarded an NSERC Strategic Project grant of \$553,000 over three years for her project, "Application of Wireless Sensor Networks in Healthcare and Environmental Monitoring."

- Dr. Lotfollah Shafai, Electrical and Computer Engineering, was awarded an NSERC Strategic Project grant of \$462,000 over three years for his project, “Active and Smart Surfaces for Sensor and Millimeterwave Components.”

### **Program Initiatives**

- On September 25, 2007, close to 180 people attended the first presentation in this year’s *Get to Know Research at Your University* speaker series. The featured speaker was Dr. Charles Bernstein, Internal Medicine, who described his population-based studies of inflammatory bowel disease (IBD). His presentation was titled, “The Burden of Inflammatory Bowel Disease.”
- The first lecture in the 2007-2008 *This Lunch Hour Has 33 Minutes* speaker series was held on October 19, and featured Dr. Gordon Robinson, Biological Sciences, Director of the Centre for Research in Youth, Science Teaching and Learning (CRYSTAL) on the topic “Improving Success in Science and Math: Collaboration is Key” was well received by 45 attendees from various University faculties and departments.

### **Related Initiatives**

- On October 24, Dr. Chad Gaffield, President of the Social Sciences and Humanities Research Council of Canada (SSHRC), visited the University of Manitoba to announce \$1 million in new funding over the next five years for the Centre on Aging. The funding is part of SSHRC’s Community-University Research Alliances (CURA) program. Dr. Verena Menec, Canada Research Chair in Healthy Aging, is leading a CURA project looking at ways Manitoba can adapt to an aging population.

While on campus, Dr. Gaffield held an open-forum discussion with faculty members to discuss the future role of SSHRC in funding research projects. The discussion was attended by about 40 faculty members. Dr. Gaffield also spoke at a luncheon hosted by Dr. Joanne Keselman, Vice-President (Research).

## **IV. ADMINISTRATIVE MATTERS**

### **Vice-President (Administration)**

- To support the 2008/09 resource allocation process, units have been requested to develop their strategic resource plans with a particular focus on the relationship between the units’ priorities and University strategic priorities as communicated in the document “*Building for a Bright Future, a Strategic Academic Plan for the University of Manitoba*”. As part of the review process, the President and Vice-Presidents will meet with the Deans and Directors to review and discuss the unit submissions beginning in January 2008. Administrative units will meet with the Vice-President to whom they

report. Copies of the submissions will be provided to the members of the Budget Advisory Committee to assist them in advising on the University's operating budget and related resource allocation issues.

### **Ancillary Services**

- The Residences partnered with Investor's Group to assist in breaking the world record for food collected in a 24 hour period. Over 75 students from Residence, the PRAXIS groups, Peers and the International Centre for Students participated in the World Record Event. Over 176 tons of non-perishable food items were collected for Winnipeg Harvest.

### **Human Resources**

- The hazardous waste program is working closely with the Winnipeg Fire Department Hazardous Materials team to have four mock emergencies occur at the Environmental Safety Building.

### **Information Services and Technology**

- Human Resources and Graduate Studies are piloting imaging projects which will incorporate electronic imaging and storing of documents.
- The Mainframe Jazz Funeral to mark the decommissioning of the mainframe is scheduled for November 21.

### **Physical Plant**

- **Status of Building Projects:**
  - **Aboriginal Student Centre** - Work is in progress on the steel stud walls. Concrete portion of the roof is complete. Substantial completion is scheduled for February 1, 2008 with occupancy taking place in early March 2008.
  - **Buller Building Redevelopment** - Level 500 has been reoccupied. Users have moved back into Level 300 and partial Level 400. Level 200, 400 and 500 window installation is complete. Overall project is 80% complete.
  - **Clinical Learning Simulation, Faculty of Medicine** - On September 14 and 15, an Alumni Reunion was held for graduates of the School of Medical Rehabilitation and the Faculty of Medicine. Dr. Bruce Martin, Associate Dean for Undergraduate Medical Education conducted tours of the Clinical Learning & Simulation Facility for 150 alumni. Steel stud wall framing, and drywall boarding is 99% complete. Painting, installing

frames, doors and acoustic ceilings are all in progress. Project completion is scheduled for November 23, 2007.

- **Elizabeth Dafoe Library Storage Annex** - Foundation walls, concrete beams, columns, formwork for stair concrete walls and basement slabs are complete. Occupancy is anticipated for the third week in December.
- **Pharmacy (Apotex Centre)** - The roof/penthouse floor concrete slab is complete. Concrete floor grinding is complete in the basement and on the 1<sup>st</sup> floor. The 2<sup>nd</sup> floor is about 75% complete with the 3<sup>rd</sup> floor started. Excavation for the new service tunnel is done and the concrete floor was poured on October 29. Aluminum window frames and glazing are installed on the 1<sup>st</sup> to 3<sup>rd</sup> floors. Main electrical distribution panels are installed. Roofing has just begun. The scheduled completion date is June 30, 2008 but the project is currently about six weeks behind schedule.
- **St. John's College - Theatre Addition** - Foundation wall installation on the high walls is complete and low walls and basement slab are about to start. Building occupancy is scheduled for May 8, 2008, approximately five weeks behind schedule.
- **Outfall Pumping Stations** - Outfall #1 project completion date is expected to be late November 2007 and Outfall #4 pumping station should be complete by mid December 2007.
- Sustainability Update:
  - As of September 2007, 32 tonnes of wood waste was diverted from the landfill using the woodchipper.
  - Confirmation of funding for recycling programs was received on October 12, 2007 from Green Manitoba.
  - Paper recycling diverted 179 metric tonnes and beverage container recycling diverted 11.8 metric tonnes for the period April 1, 2007 to September 21, 2007.
  - The year to date metric tonnes diverted from April 1<sup>st</sup> to October 23, 2007 are: 2.14 (steel), 8.62 (glass), 1.96 (aluminum), 3.54 (#1 plastic).
  - Financial Services has negotiated a price for recycled copy paper to match the regular copy paper pricing.

## Security Services

- Staff from Security Services, including Patrol Officers and Student Patrols, assisted the University of Winnipeg with security issues related to the threatening message written on a bathroom wall.
- A tabletop "Active Shooter" exercise was held on campus on November 7, 2007 involving the Winnipeg Police Service.



## **Smart Park**

- The Eureka project has founded the Association of Manitoba Business Incubators (AMBI) and hosted its inaugural meeting on October 3. It also hosted the national launch of Small Business Week on October 12 featuring politicians from three levels of government, business and the University. Following the launch, the Manitoba New Media Symposium took place.
- “Meet Smartpark’s Tenants” is a new feature added to the website in October. The purpose of the feature is to give visitors to the website a quick overview of the types of tenants Smartpark has, and to provide a brief history of those organizations.

## **V. EXTERNAL MATTERS**

### **Special Events**

- The annual Remembrance Day Ceremony was held on November 9 in the Marshall McLuhan Hall in University Centre.

### **Alumni Affairs and Alumni Association Inc.**

- The Alumni Association is sponsoring the University Singers' Holiday Concert in Brodie Centre on Thursday, December 6. The concert has traditionally been held only at the Fort Garry campus, but this year choir director Dr. Elroy Friesen and the singers will also sing at the Bannatyne Campus from noon to 1:00 pm in Brodie Centre. The Fort Garry noon hour concert will be held on Friday, December 7 in the Administration Building.
- Dr. Ian C.P. Smith, B.Sc.(Hons)/61, M.Sc./62, received the 2007 Distinguished Alumni Award during fall Convocation. He is Director General of the Institute for Biodiagnostics. He has served on the Board of the Alumni Association, was President from 1998-99, and was alumni representative on the Board of Governors for two terms beginning in 2000. His many scientific and research achievements have been recognized by the Royal Society of Canada, of which he is a fellow and a recipient of the Flavelle Medal. He was awarded the 2004 Star of Romania for his work over decades in training scientists in the former communist country.
- Approximately 100 graduates and guests attended an alumni reception in Los Angeles at the Consul General's residence on October 11, 2007, with special guest Monty Hall, B.Sc./46, LL.D/87.
- The Alumni Association has created a group on the social networking site Facebook as a new way of reaching graduates. To date, close to 300 alumni have joined. Pictures from Homecoming have been posted and are a popular feature.

## **Public Affairs**

- The 2006-2007 Annual Report, was released at the Annual General Meeting. An eight-page full colour community version of the Annual Report was distributed on November 18, 2007 as an insert in the *Winnipeg Free Press* to over 200,000 households in Winnipeg.

## **Development and Advancement Services**

- Total funds raised as of October 31, 2007: \$13,018,665.99
- President and Vice-Chancellor, Dr. Emőke Szathmáry hosted the 2007 Isbister Legacy Society Luncheon on Thursday, September 13. Dr. Arthur Mauro, Chancellor Emeritus was the keynote speaker. The event recognized those who have informed the University of Manitoba of their planned giving arrangements for the University, primarily through bequests, life insurance, charitable annuities and other planned gifts.
- Bison Sports, in conjunction with University of Manitoba Athletes' Council, is embarking on the third year of the anti-bullying campaign called "Bisons Against Bullying" with a \$6,500 grant from The Winnipeg Foundation. The grant will be instrumental in increasing the profile and presentation of the program throughout the community.

**PART B - Notable Events (External)**  
**Emőke J. E. Szathmáry**  
**September 16, 2007 - November 7, 2007**

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**Monday, September 17, 2007**

- Present remarks at the sod-turning event for the Indoor Soccer Complex, joining Premier Doer, Mayor Katz, Rod Bruinooog, MP for Winnipeg South, and Mr. Keith Ferbers, President, Winnipeg Soccer Association.

**Wednesday, September 19, 2007**

- Host Leader's Breakfast, in Montréal, along with Friends of the CIHR and the Canadian Academy of Health Sciences, in honour of Dr. John Evans, the 2007 recipient of the Henry Friesen Prize in International Health Research. The breakfast was sponsored by Power Corporation of Canada.

**Friday, September 21, 2007**

- Present a paper on the educational experiences of graduate and undergraduate students, reflecting Canada's interest in this issue, at the Third Canada-China Agri-Science Forum held in Edmonton, Alberta.

**Sunday, September 23, 2007**

- Attend the installation of Dr. Denis Bracken, as Rector of St. Paul's College.

**Monday, September 24, 2007**

- Attend meeting of the St. Boniface General Hospital Board of Directors.
- Meet with Dr. Changyou Li, President, Inner Mongolia Agricultural University.
- Telephone meeting with Dr. Andy Greenshaw, Vice-Chair, UArctic Board.

**Friday, September 28, 2007**

- Bring greetings to the Canadian Ethnic Studies Association 19<sup>th</sup> Biennial Conference.
- Present remarks at the BioMedical Imaging Announcement, joining Honourable Steve Ashton, Minister of Intergovernmental Affairs, Mr. Steven Fletcher, Parliamentary Secretary to the Minister of Health, and City Councillor Jeff Browaty.

- Attend the 2007 Western Canadian Deans of Arts and Science Conference dinner, with Mr. Ovide Mercredi, the keynote speaker.

#### **Monday, October 1, 2007**

- Present remarks at the Internationally Educated Engineering Qualification Program announcement, joining Dr. Diane McGifford, Minister of Advanced Education and Literacy and Nancy Allan, Minister of Labour and Immigration.
- Host luncheon at 37 King's Drive for Bison athletes who have received the RBC Academic All Canadian Athlete designation.
- Bring greetings at the Faculty of Law's reception in honour of the Pitblado Scholars.

#### **Tuesday, October 2, 2007**

- Present remarks at the Manitoba Chambers of Commerce Speaker Series Breakfast sponsored by the University of Manitoba, with Dr. Diane McGifford, Minister of Advanced Education and Literacy, the keynote speaker.

#### **Wednesday, October 3, 2007**

- Present remarks at the news conference on the undertaking of community-identified research needs in Sanikiluaq, Nunavut, supported by Nycomed Canada Inc.
- Present remarks at the Faculty of Medicine's Welcome Dinner for new faculty.

#### **Friday, October 5, 2007**

- Present remarks at a reception honouring the first cohort of student in the University's Ph.D. Studies for Aboriginal Scholars (PSAS) initiative.

#### **Tuesday, October 9, 2007**

- Attend meeting of the Council of Presidents of Universities in Manitoba.
- Meet with Dr. Stephen Johnson, Head of St. John's Ravenscourt School.
- Host reception at Marshall McLuhan Hall for 2006 Teaching Award recipients.

**Monday, October 15, 2007**

- Host reception at the Winnipeg Art Gallery for recipients of Entrance Scholarships and their guests.

**Tuesday, October 16, 2007**

- Present remarks on receiving the 2007 Lieutenant Governor's Medal for Excellence in Public Administration in Manitoba.

**Wednesday, October 17, 2007**

- Provide remarks and host Convocation banquet for Honorary Degree and other Convocation award recipients and special guests.

**Thursday, October 18, 2007**

- Provide remarks at a reception honouring Dr. Ian Smith, recipient of the 2007 Distinguished Alumni Award.

**Monday, October 22, 2007**

In Ottawa:

- Meet with Ms. Yaprak Baltacioglu, Deputy Minister of Agriculture and Agri-Food, along with Mr. John Alho, Associate Vice-President (External).
- Meet with Mr. Rod Bruinooge, MP, Winnipeg South and Mr. James Rajotte, MP for Edmonton-Leduc and Chair of the Industry, Science and Technology Committee of Parliament, along with Mr. John Alho, Associate Vice-President (External).
- Meet with Mr. Matthew King, Assistant Deputy Minister of Science and Innovation, Feyrouz Kurji, Director of Higher Education RD Policy Directorate University Based Policy Issues, Prichya Sethchindapong, Special Advisor Science and Innovation Sector Industry Canada, along with Mr. John Alho, Associate Vice-President (External).
- Attend the Canada Foundation for Innovation 10<sup>th</sup> Anniversary Celebration banquet.

## **Tuesday, October 23, 2007**

In Ottawa:

- Attend meeting of the Association of Universities and Colleges in Canada (AUCC) Board of Directors.
- Attend meeting with The Honourable Paul Martin and some members of the Association of Universities and Colleges in Canada regarding a proposed private educational initiative.
- Attend President's Welcome Reception at the Association of Universities and Colleges in Canada (AUCC) Semi Annual Meeting.

## **Wednesday, October 24, 2007**

In Ottawa:

- Attend a meeting of the Ad hoc Committee on AUCC Membership Issues.
- Attend Annual Business Meeting of the Association of Universities and Colleges in Canada.
- Attend AUCC Membership Dinner.

## **Thursday, October 25, 2007**

- Attend joint meeting of AUCC's Standing Committee on University Research and Standing Committee on International Relations.
- Dinner meeting with University benefactor in Toronto.

## **Sunday, October 28, 2007**

- Attend reception and dinner at the home of Professor Harvey Sector, Dean of Law, in honour of The Honourable Madam Justice Rosalie Silberman Abella and Jon Allen, Canadian Ambassador to Israel.

## **Tuesday, October 30, 2007**

- Meet with University benefactor, accompanied by Dr. Cheryl Dueck, Head, Department of German and Slavic Studies.

#### **Thursday, November 1, 2007**

- Bring Greetings to the first national conference on Plug-In Hybrid Electric Vehicles (PHEV), Delta Hotel, Winnipeg.

#### **Friday, November 2, 2007**

- Attend luncheon as guest of Dr. Richard Sigurdson, Dean of Arts, with Gunnlaugur Sigmundsson, Chairman of the Board, Icelandair and his wife Sigríður Sigurbjörnsdóttir, Einar Sveinsson, Board member, Icelandair and his wife Birna Hrólfsdóttir, Átli Asmundsson, Consul General for Iceland, Mr. Neil Bardal, Dr. Ken Thorlakson, Ms. Sigrid Johnson, Ms. Helga Hilmisdóttir and Mr. John Alho, Associate Vice-President (External).

#### **Friday, November 2, 2007**

- With Dr. Henry Duckworth, present awards to University of Manitoba Bison and University of Winnipeg Wesmen volleyball team members at the conclusion of the men's and women's games at the Duckworth challenge.

#### **Saturday, November 3, 2007**

- Bring greetings to the Metropolitan Ilorian (Ivan Ohienko) International Conference held at St. Andrew's College.
- Attend St. John's College Convocation Dinner in honour of Honorary Degree recipients, Dr. David Bright, Mrs. Janice Filmon, the Rev. E. Timothy Sale.

#### **Sunday, November 4, 2007**

- Attend the St. John's College Convocation luncheon as guest of Warden Dr. Janet Hoskins.
- Attend St. John's College Convocation Ceremony as member of the platform party.

#### **Monday, November 5, 2007**

- Chair the University of Manitoba Foundation USA Inc. Annual General Meeting, via teleconference.

#### **Tuesday, November 6, 2007**

- Participate by teleconference in the meeting of the Council of Presidents of Universities in Manitoba.

November 21, 2007

## **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 Susan Prentice will be the Speaker for the Executive Committee for the December 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. Emőke Szathmáry, 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)

/mb



## REPORT OF THE SENATE COMMITTEE ON AWARDS – PART B

### 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 Scholarships, Bursaries or Fellowships*, such offers shall be submitted to Senate for approval. (Senate, April 5, 2000)

### Observation

At its meeting of October 31, 2007 the Senate Committee on Awards reviewed two new offers that appear to be discriminatory according to the *Policy for Non-Acceptance of Discriminatory Scholarships, Bursaries or Fellowships*. The committee received a letters of support for the *Frank and Margie Silver Bursary* from Ms Kali Storm, Director of the Aboriginal Student Centre (Appendix A, Attachment I), and from Dr. Rae Bridgman, Acting Dean, Faculty of Architecture (Appendix A, Attachment II). Letters of support for the *George Swinton Memorial Scholarship* were received from Ms Storm (Appendix A, Attachment I) and from Dr. Celia Rabinovitch, Director of the School of Art (Appendix A, Attachment III).

### Recommendation

The Senate Committee on Awards recommends that Senate and the Board of Governors approve the establishment of two new offers as set out in Appendix A of the *Report of the Senate Committee on Awards – Part B* (dated October 31, 2007).

Respectfully submitted,

Professor R. Baydack  
Chair, Senate Committee on Awards

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

## **Appendix A**

### **MEETING OF THE SENATE COMMITTEE ON AWARDS October 31, 2007**

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

##### **Frank and Marjorie Silver Bursary**

On the occasion of her birthday and their anniversary, Mr. William Aaron (LL.B/71) has made a gift to the University of Manitoba, in honour of his wife, Randi Aaron (M.Arch./78). The endowment fund, established with an initial gift of \$10,000, is named in memory of Randi's parents and is intended to encourage Aboriginal students to pursue graduate studies in the Faculty of Architecture. The Manitoba Scholarship and Bursary Initiative has made a contribution to the fund. The available annual interest on the fund will be used to offer a bursary to a graduate student who:

- (1) is Aboriginal (Status, non-Status, Métis, Inuit);
- (2) is enrolled full-time, in any year of study, in the Faculty of Graduate Studies, in one of the following programs: Master of Architecture, Master of City Planning, Master of Interior Design or Master of Landscape Architecture;
- (3) (i) as an entering student, has achieved a minimum cumulative grade point average of 3.0 in their undergraduate program or (ii) as a continuing student, has achieved a minimum cumulative grade point average of 3.0 (or equivalent) based on the last two years of full-time study;
- (4) has demonstrated financial need on the standard University of Manitoba bursary application form.

In any year that no student meets the selection criteria set out in the preceding paragraphs, the scholarship will then be offered to a student who:

- (1) is Aboriginal (Status, non-Status, Métis, Inuit);
- (2) is enrolled full-time, in any year of study, in any Masters or Doctoral program in the Faculty of Graduate Studies;
- (3) (i) as an entering student, has achieved a minimum cumulative grade point average of 3.0 (or equivalent) in their undergraduate program or (ii) as a continuing student, has achieved a minimum cumulative grade point average of 3.0 (or equivalent) based on the last two years of full-time study;
- (4) has demonstrated financial need on the standard University of Manitoba bursary application form.

The selection committee shall be named by the Director of Financial Aid and Awards.

##### **George Swinton Memorial Scholarship**

Family and friends of George Swinton have established an endowment fund at the University of Manitoba to offer scholarships to Aboriginal students in the School of Art. George Swinton was a painter, a printmaker, and an art instructor who served as a faculty member in the School of Art from 1954 – 1974. George was an authority on Inuit art and this scholarship honours his connection with Canada's northern artists. One scholarship valued at \$750 will be offered to a student who:

- (1) is Aboriginal (Status, Non-Status, Métis, Inuit);

- (2) is enrolled full-time (minimum 60% course load) or part-time (minimum 40% course load), in any year of study, in the Bachelor of Fine Arts (Honours), the Bachelor of Fine Arts, or the Diploma in Art;
- (3) a. has been successfully admitted to the School of Art; OR  
b. as a continuing student, has achieved a minimum degree grade point average of 3.0;
- (4) shows promise of continuing to complete work of merit in any art field.

Preference will be given to a student who grew up in northern Canada (Yukon, Northwest Territories, and Nunavut).

The selection committee will be named by the Director of the School of Art.



UNIVERSITY  
OF MANITOBA

## Aboriginal Student Centre

July 24, 2007

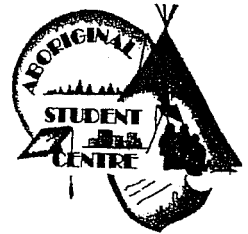
Dr. Rick Baydack

Chair of the Senate Committee on Awards

C/o Ms. Shannon Coyston, Awards Establishment Coordinator

Awards Establishment Coordinator

422 University Centre



537 University Centre  
Winnipeg, Manitoba R3T 2N2  
Telephone (204) 474-8850  
Fax (204) 275-3142  
Toll Free in Manitoba  
1-800-432-1960 ext. 8850  
asc@umanitoba.ca

Dear Dr. Baydack & Senate Committee:

Please accept this letter as formal support for the proposed George Swinton Memorial Scholarship and the Frank and Margie Silver Bursary designed to assist Aboriginal students in the School of Art and graduate studies in the Faculty of Architecture respectively.

As the Director of the Aboriginal Student Centre, I can verify that financial strain is the leading cause for Aboriginal students leaving school before graduation. It is common knowledge that many Aboriginal peoples live in poverty and whereas a university education can help rectify this, most cannot afford to do so. Aboriginal students cannot often afford university due to generations of poverty in the families – this is true of both Metis and First Nations. Whereas First Nations have a chance at obtaining financial support to attend school the waiting lists are an increasing barrier. Also, many First Nations communities are no longer able to assist second degrees and/or graduate degrees because of the growing demand for funding assistance. Metis students have even fewer resources and lack access to any specified funds designed for university studies.

The number of Aboriginal students attending the University continues to increase and, I believe, is partially due to the financial assistance made available through programs, faculties and community donations, such as the two being supported here. I trust this information is satisfactory and the attached scholarship and bursary proposals will attain Senate approval and will soon be made available. I thank you in advance for your continued support to the Aboriginal student retention efforts offered at the University of Manitoba.

In education, miigwetch!

Kali Storm, Director

Aboriginal Student Centre

Aboriginal Peoples comprise 11.7% of the Manitoba population (the highest in Canada!)

Aboriginal Peoples comprise 8.4% of the city of Winnipeg population

Aboriginal Peoples comprise approximately 6% of the University of Manitoba population

2.9% of the Aboriginal population in Manitoba complete university vs. 12.6% of the non-Aboriginal population.

There are 18 self-declared Aboriginal students in the School of Art, or 1.1% of the population.

There are 9 self-declared Aboriginal students in the Faculty of Architecture, or 0.5% of which only 2 are in the graduate program

\* Statistics are from the Government of Canada 'Aboriginal People in Manitoba' and from Institutional Analysis 'A Profile of Canadian Aboriginal Students at The University of Manitoba'.



UNIVERSITY  
OF MANITOBA

## Faculty of Architecture

Architecture  
City Planning  
Environmental Design  
Interior Design  
Landscape Architecture

Office of the Dean  
Winnipeg, Manitoba  
Canada R3T 2N2  
Telephone (204) 474-6433  
Fax (204) 474-7532

Date: July 13, 2007

To: Senate Committee on Awards

From: Dr. Rae Bridgman, Acting Dean, Faculty of Architecture

Subject: Frank and Margie Silver Bursary

The Faculty of Architecture is committed to growth in Aboriginal Architectural Education. Consistent with this priority, I am writing in support of the Frank and Margie Silver Bursary.

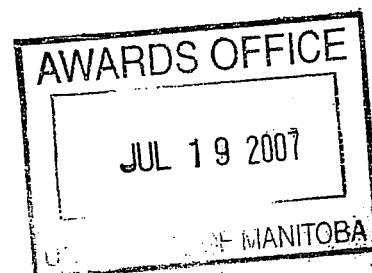
During Regular Session 2006-2007, a total of 3 aboriginal students are studying in the Master's level in the Faculty of Architecture, approximately 0.01% of our total student population of 259 full and part time students. As aboriginal peoples represent 13.6% of Manitoba's population\*, aboriginal students are under-represented at the Faculty of Architecture in comparison to the general population.

Over the past five years, the ratio of aboriginal students enrolled in the Faculty of Architecture relative to the total number of Architecture students (full and part time) was: 2002-2003 one (1) out of 261 students; 2003-2004 two (2) out of 265 students (0.01%); 2004-2005 (less than 3) 3/251 (0.01%) and in 2005-2006 (less than 3) 3/279 (0.01%). Clearly, aboriginal students have a history of being under-represented relative to the total Architecture student population.

The Frank and Margie Silver Bursary will provide support to aboriginal students enrolled full-time in the Faculty of Graduate Studies, in the first year of any Faculty of Architecture master degree program. Given the University of Manitoba's commitment to the growth of Aboriginal education, and given the under-representation of aboriginal students in the Faculty of Architecture, I strongly support the offering of this bursary.

BMB/pa

\*Statistics Canada, 2001 Census.





UNIVERSITY  
OF MANITOBA

School of Art

203 FitzGerald Building  
Winnipeg, Manitoba  
Canada R3T 2N2  
Telephone (204) 474-9367  
Fax (204) 474-7605

## memo

To: Senate Committee on Awards  
c/o Ms Shannon Coyston, Awards Establishment Coordinator  
Financial Aid & Awards

From: Dr. Celia Rabinovitch, Director *Celia Rabinovitch*

Date: July 10, 2007

Re: **George Swinton Memorial Scholarship**

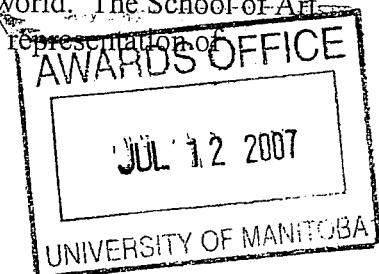
The School of Art is committed to growth in Aboriginal Fine Art Education. Consistent with this priority, I am writing in support of the George Swinton Memorial Scholarship.

During the coming Regular Session 2007-2008, the School of Art will admit a total of 7 aboriginal students. Currently we have over 12 Aboriginal students in our Bachelor of Fine Art programs. With an overall base of 460 students, this is a small, but very important component of our student population.

Over the past 5 years, the ratio of Aboriginal students enrolled in the School of Art has been less than .02% each year.

Aboriginal students have a history of being under-represented relative to the total School of Art student population, even though aboriginal artists are prominent in Canadian art and culture, and form a much higher percentage of artists relative to the Canadian art world. The School of Art strongly supports this scholarship initiative to create a more equitable representation of aboriginal students.

CR/daht



**Report of the Senate Committee on Course and Curriculum Changes Part B – Submitted to Senate for Ordinary Debate**

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**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. This part of the report contains observations and recommendations on course change proposals for units where the net increase is more than nine credit hours. The Senate Planning and Priorities Committee was provided with copies of these proposals as well.

**Observations**

**1. Faculty of Arts**

History

The department is proposing the following five course introductions in response to new faculty hires: **HIST 2AAA The Shaping of Modern Ireland, 1500 – Present (E)(6)**, **HIST 2XXX History of Africa (R)(6)**, **HIST 3AAA History of Winnipeg from 1870 – 2000 (C)(3)**, **HIST 3XXX History of Medieval Italy, 568-1300 (D)(3)**, **HIST 3YYY History of Medieval Italy, 1300-15—(D)(3)**; and the modification of two courses: **HIST 2650 Modern China and Japan (B)(6)** to update the course description to more accurately reflect the course content and **HIST 3140 Medieval Italy (D)(6)** to add the ‘may not be held with’ restriction in light of the course introductions.

**Recommendation**

The Senate Committee on Curriculum and Course Changes recommends THAT Senate approve the curriculum and course changes from the units listed below:

**1. Faculty of Arts**

Department of History

Respectfully submitted,  
Professor J. Welsh, Chair  
Senate Committee on Curriculum and Course Changes

/mb

**Comments of the Senate Executive Committee:**  
The Senate Executive Committee endorses the report to Senate.

1. **Faculty of Arts**

History

Course introductions:

HIST 2AAA The Shaping of Modern Ireland, 1500 – Present (E) Cr.Hrs. 6 +6  
The history of Ireland from 1500 to the end of the twentieth century focusing on changes in political, social, religious, economic and cultural relationships in shaping Modern Ireland.

HIST 2XXX History of Africa (R) Cr.Hrs. 6 +6  
A broad survey of African history from pre-colonial times through colonialism to the post-colonial present.

HIST 3AAA History of Winnipeg from 1870 – 2000 (C) Cr.Hrs. 3 +3  
A study of the social history of the city of Winnipeg from its origins through to the Aboriginal Justice Inquiry (1991). Students may not hold credit for both HIST 3AAA and HIST 3790 (011.379) with the topic "History of Winnipeg". Prerequisite: [a grade of "C" or better in six credit hours of history] or written consent of department head.

HIST 3XXX History of Medieval Italy, 568 – 1300 (D) Cr.Hrs. 3 +3  
An examination of the political, social, economic and cultural history of the Italian peninsula from the arrival of the Lombards to the development of city republics. Prerequisite: a grade of "C" or better in six credit hours of history or written consent of department head. Students may not hold credit for both HIST 3XXX and HIST 3140.

HIST 3YYY History of Medieval Italy, 1300 – 1500 (D) Cr.Hrs. 3 +3  
An examination of the political, social, economic and cultural history of the Italian peninsula during the later Middle Ages. Prerequisite: a grade of "C" or better in six credit hour of history or written consent of department head. Students may not hold credit for both HIST 3YYY and HIST 3140.

Course modifications:

HIST 2650 Modern China and Japan (B) Cr.Hrs. 6  
(formerly 011.265) An examination of the major developments in East Asian history from the mid-1800s to the present. Topics to be studied include Western imperialism in East Asia, the Chinese revolutions, Japanese and Chinese approaches to modernization, democracy movements in Japan and China, and how Sino-Japanese relations shape the history of the region.

HIST 3140 Medieval Italy (D) Cr.Hrs. 6  
A study of topics in the history of the Italian peninsula between the 6<sup>th</sup> and 15<sup>th</sup> centuries with emphasis on urban life, gender and religious culture. Students may not hold credit for HIST 3140 and any of: HIST 3XXX or HIST 3YYY. Prerequisite: a grade of C or better in six credit hours of history or written consent of department head.

**NET CHANGE IN CREDIT HOURS: +21 HOURS**



September 24, 2007

**Report of the Senate Planning and Priorities Committee on Undergraduate Changes with Potential Resource Implications or Course Changes Beyond Nine Credit Hours**

**Preamble**

1. SPPC has the responsibility to report to Senate on curriculum changes with significant resource implications, including additions to departmental curricula of more than nine credit hours.
2. The committee reviewed a proposal from the Faculty of Arts to introduce a total of 21 credit hours in the Department of History.

**Observations**

1. The Department of History proposes to introduce several new courses, in response to the research and teaching interests of recent hires. The resources are in place to offer these courses as a part of the department's current program.
2. Two six-credit hour courses and three three-credit hour courses will be introduced, as follows: The Shaping of Modern Ireland, 1500 –Present (6), History of Africa (6), History of Winnipeg from 1870-2000 (3), History of Medieval Italy, 568-1300 (3), and History of Medieval Italy, 1300 – 1500 (3).
3. Statements from University of Manitoba Libraries (UML) indicate that these courses can be supported adequately with the acquisitions budget presently allocated to history. An investment of \$3746.25 for The Shaping of Modern Ireland (78 titles), \$1296.50 for History of Africa (27 titles), and \$144.05 for Medieval Italy (3 titles) will be acquired over the next three years to complement existing resources.

**Recommendation**

THAT Senate approve the course changes from the Department of History as presented by the Faculty of Arts.

Respectfully submitted,

Norm Hunter, Chair  
Senate Planning and Priorities Committee

/mb

**Comments of the Senate Executive Committee:**  
The Senate Executive Committee endorses  
the report to Senate.

October 15, 2007

**Report of the Senate Committee on Curriculum and Course Changes on a Proposal from the Collège universitaire de Saint Boniface for the addition of a Major in Accounting to the Bachelor of Business Administration**

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**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. This report contains observations and recommendations on curriculum and course changes for CUSB where the net increase is more than nine credit hours. The Senate Planning and Priorities Committee was provided with copies of this proposal as well.

**Observations**

1. This proposal recommends the addition of an Accounting Major to the four existing majors: Human Resources Management and International Relations, International Business, Management of Organizations, and Marketing. There is also an existing Generalist option.
2. Introduction of the Major will require the introduction of four new courses: **ACC 2011 Compatabilité intermédiaire – Actifs (3)**, **ACC 2021 Compatabilité intermédiaire – Passifs et capitaux propres (3)**, **ACC 3041 Comptabilité de coûts (3)**, and **ACC 4031 Théorie comptable (3)**.
3. The requirements for this Major are exactly the same as those of the Asper School of Business. The proposal was considered and approved by the Faculty Council of the Faculty of Management at its meeting of September 28, 2007.

**Recommendation**

The Senate Committee on Curriculum and Course Changes recommends that the proposed Accounting Major for the Bachelor of Business Administration at the Collège universitaire de Saint-Boniface be approved by Senate.

Respectfully submitted,

Professor J. Welsh, Chair  
Senate Committee on Curriculum and Course Changes

/mb

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

## **Collège universitaire de Saint Boniface**

### Course introductions:

ACC 2011 Comptabilité intermédiaire – Actifs Cr.Hrs. 3 +3  
Cadre théorique de la comptabilité relatif aux principes et procédures d'analyse et mesure des actifs. Analyse comptable approfondie des postes de l'actif: encaisse, créances, stocks, placements, immobilisations corporelles et incorporelles et amortissement. Préalable: ACC 1101 (ou l'ancien 009.110) avec une note minimale de C+.

ACC 2021 Comptabilité intermédiaire – Capitaux propres et passifs Cr.Hrs. 3 +3  
Cadre théorique de la comptabilité relatif aux capitaux propres avec une considération du traitement comptable des passifs à court et à long termes, régimes de retraite, locations, impôts sur les bénéfices, actions, droits, etc. Modifications comptables. Préalable: ACC 2011 (ou l'ancien 009.201).

ACC 3041 Comptabilité de coûts Cr.Hrs. 3 +3  
Utilité de la comptabilité de management et prise de décision, concepts de coûts, systèmes de coût de revient, répartition des coûts, budgets, contrôle budgétaire, gestion décentralisée, analyse de la performance financière. Préalable: ACC 1111 (ou l'ancien 009.111).

ACC 4031 Théorie comptable Cr.Hrs. 3 +3  
Évolution de la théorie comptable, processus de normalisation et influence du milieu sur son cheminement, étude des modèles de mesure des bénéfices, théorie d'agence, hypothèse de l'efficacité des marchés de capitaux, etc. Préalable: ACC 2011 (ou l'ancien 009.201) et ACC 2021 (ou l'ancien 009.202) ou avec l'approbation du représentant de secteur.

**NET CHANGE IN CREDIT HOURS:**

**+12 HOURS**

**Report of the Senate Planning and Priorities Committee on the proposal to Add The Accounting Major to the Bachelor of Business Administration in the Faculty of Arts, Science and Business Administration at the Collège universitaire de Saint-Boniface**

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**Preamble**

1. The terms of reference of the Senate Planning and Priorities Committee (SPPC) are found on the website at:  
[http://www.umanitoba.ca/admin/governance/governing\\_documents/governance/sen\\_committees/508.htm](http://www.umanitoba.ca/admin/governance/governing_documents/governance/sen_committees/508.htm), wherein SPPC is charged with making recommendations to Senate regarding proposed academic programs.
2. The Faculty Council of Arts, Science and Business Administration of the Collège Universitaire de Saint-Boniface (CUSB) have approved the proposal to add The Accounting Major to the Bachelor of Business Administration and recommend that Senate approve the proposal.

**Observations**

1. The committee noted that the addition of the proposed Accounting Major to the Bachelor of Business Administration is being proposed to meet a growing demand for bilingual accountants in Manitoba and other parts of the country. It would add a fifth Major to Bachelor of Business Administration at CUSB which currently provides following four majors: Human Resources Management and International Relation, International Business, Management of Organizations, and Marketing.
2. The proposed major is designed to be compatible both academically and professionally with the current Major in Accounting offered by at the Asper School of Business. Students would receive instruction at and graduate from CUSB and would receive a Bachelor's degree in Business Administration with a Major in Accounting from the University of Manitoba.
3. The Faculty Council of the Asper School of Business, Faculty of Management has approved this proposal to add The Accounting Major to the Bachelor of Business Administration offered by CUSB.
4. The committee noted that the proposal will require additional funding of 1 FTE academic position to deliver the additional 12 credit hours of new courses and 6 credit hours of required introductory courses for this major, the financial responsibility for which is exclusively the responsibility of the Collège.

**Recommendation:**

THAT Senate approve and recommend to the Board of Governors that it approve the introduction of the Accounting Major to the Bachelor of Business Administration, Faculty of Arts, Science and Business Administration at the Collège universitaire de Saint-Boniface.

Respectfully submitted,

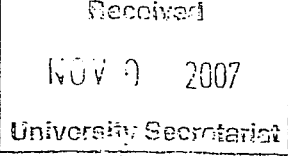
Norman Hunter, Chair  
Senate Planning and Priorities Committee

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



UNIVERSITY  
OF MANITOBA

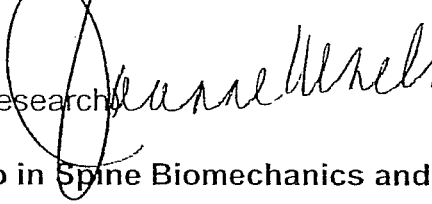
OFFICE OF THE  
VICE-PRESIDENT (RESEARCH)



207 Administration Building  
Winnipeg, Manitoba  
Canada R3T 2N2  
Telephone (204) 474-6915  
Fax (204) 474-7568  
[www.um. Manitoba.ca/vpresearch](http://www.um. Manitoba.ca/vpresearch)

November 8, 2007

TO: Mr. Jeff Leclerc, University Secretary

FROM: Joanne C. Keselman, Vice-President (Research) 

SUBJECT: **Proposal to Establish a Professorship in Spine Biomechanics and Human Neurophysiology**

Attached, please find a proposal for the establishment of a Professorship in Spine Biomechanics and Human Neurophysiology in the Faculty of Medicine, School of Medical Rehabilitation. The purpose of this proposed professorship is to support the recruitment of an academic staff member in the School of Medical Rehabilitation (SMR) on a contingent appointment at the Assistant Professor level.

The proposal is supported by the Senate Committee on University Research (SCUR) along with Dr. Robert Kerr, Vice-President (Academic) and Provost. Accordingly, I would ask that you place this proposal on the next agenda of Senate for its consideration. Please feel free to contact me should you require any further information.

Thank you.

JCK/wc

Encl.

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

Proposal to Establish a Professorship in Spine Biomechanics and Human  
Neurophysiology  
in  
the Faculty of Medicine, School of Medical Rehabilitation

Background

The Canadian Chiropractic Research Foundation (CCRF) has, as part of its mission, the facilitation of research relevant to the practice of chiropractic. To this end CCRF has supported the development of university-based research positions at the University of Alberta, the University of Toronto, University of British Columbia and Université du Québec à Trois-Rivières. CCRF is now providing funds to support the establishment of a Professorship in spine biomechanics and human physiology at the University of Manitoba, in the School of Medical Rehabilitation, Faculty of Medicine.

Name of the Professorship

Professorship in Spine Biomechanics and Human Neurophysiology

Purpose of the Professorship

The Professorship will be used to support the recruitment of an academic staff member in the School of Medical Rehabilitation (SMR) on a contingent appointment at the Assistant Professor level.

Relationship of Professorship to Goals of the SMR

The professorship addresses the mutual interests of the donor and the School of Medical Rehabilitation to advance research related to client interventions specifically related to spinal manipulation and pain management. The professorship will increase research capacity in the School by facilitating the hiring of a researcher who will collaborate with researchers currently in the School.

Funding

The CCRF has offered to establish this professorship by providing a gift of \$500,000 to the University to be paid to the University over a period of 5 years.

Qualifications

The successful applicant for this professorship must have a Doctor of Chiropractic degree (D.C.) and an earned doctorate in Human Kinetics, Rehabilitation Science, or a closely related field, with a background in spine biomechanics and human neurophysiology, and a promising publication record,

with outstanding potential, in research and teaching. Postdoctoral training and a proven record of external funding is highly desirable. Expertise in the area of human motor and sensory integration is strongly preferred. The ability to teach spine physiology, biomechanics and neuromusculoskeletal pathophysiology is preferred.

#### Term of Appointment

The term of the appointment will be for 5 years.

#### Other Provisions

1. The selection and appointment of an individual to the proposed Professorship shall be conducted in accordance with section 2.2 of University Policy 428.
2. The duties and responsibilities of the individual appointed to the proposed Professorship will be in accordance with Section 2.3 of University Policy 428. The holder of the Professorship will develop a well-defined program of research; secure external research funding; teach graduate courses; and supervise graduate students in their area of specialty. Additional responsibilities will include contributing to the SMR and may include some teaching of undergraduate students.
3. Annual reporting requirements shall also be in accordance with University Policy 428.
4. In accordance with University Policy 428, the performance of the Professorship holder shall be reviewed annually in the same manner as other faculty members. A copy of the performance review shall be provided to the Director of the SMR and the Dean of Medicine.



UNIVERSITY  
OF MANITOBA

Office of the  
Vice-President (Academic) & Provost

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

August 9, 2007

TO: Joanne Keselman, Vice-President (Research)  
FROM: Robert Kerr, Vice-President (Academic) & Provost *RAC/fv*  
SUBJECT: Canadian Chiropractic Research Foundation Professorship

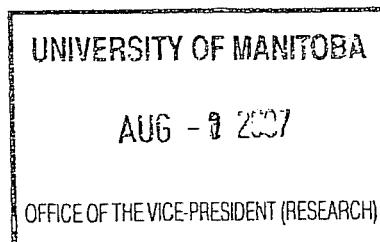
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I have received from Dr. Emily Etcheverry, Director of Medical Rehabilitation, a proposal for the establishment of a professorship to be named the Canadian Chiropractic Research Foundation Professorship in Spine Biomechanics and Human Neurophysiology. Also, attached is a support letter from Dr. Sandham, Dean, Faculty of Medicine.

I am in support of this proposal and request that you present it to the Senate Committee on University Research for consideration and recommendation to Senate. If you have any questions or concerns with the attached, I would be pleased to meet with you to discuss.

encl.

c. Dr. J. Dean Sandham  
Dr. E. Etcheverry  
Mr. J. Leclerc







UNIVERSITY  
OF MANITOBA

Faculty of Medicine

Office of the Dean  
Room 260 Brodie  
727 McDermot Avenue  
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Telephone (204) 789-3557  
Fax (204) 789-3928

June 20, 2007

Dr. Robert Kerr, VP (Academic) and Provost  
208 Administration Building  
Fort Garry Campus

**Re: Canadian Chiropractic Research Foundation Professorship in Spine  
Biomechanics and Human Neurophysiology – School of Medical Rehabilitation**

Dear Dr. Kerr:

On behalf of the Faculty of Medicine I am writing this letter of support for the proposal to establish a Professorship in Spine Biomechanics and Human Neurophysiology within the Faculty of Medicine, School of Medical Rehabilitation.

The establishment of the Professorship in the School of Medical Rehabilitation will be a great asset to the school and the Faculty and will enhance our endeavours to advance research and increase research capacity.

Yours truly,

J. Dean Sandham, MD, FRCPC, FACP  
Dean

Dr. E. Etcheverry, Associate Dean, Director, School of Medical Rehabilitation  
Ms. Barbara Becker, Associate Director, Private Funding, External Relations, Bannatyne

/md



UNIVERSITY  
OF MANITOBA

School of Medical Rehabilitation  
Faculty of Medicine

*file  
cert*

June 12, 2007

Dr. Robert Kerr, VP (Academic and Provost)  
208 Admin Bldg.  
Fort Garry Campus

**RE: REQUEST TO ESTABLISH A PROFESSORSHIP**

Dear Dr. Kerr

Attached is a proposal to establish a professorship to be named the Canadian Chiropractic Research Foundation Professorship in Spine Biomechanics and Human Neurophysiology within the School of Medical Rehabilitation in the Faculty of Medicine.

The appointment would be contingent on receipt of funds from the Canadian Chiropractic Research Foundation (CCRF) as noted in the proposal. A gift agreement has been signed with (CCRF) subject to receipt of approval for establishment of the professorship from Senate.

This proposal has been reviewed and approved in principle by the School of Medical Rehabilitation Council Executive (November 20, 2006) and the Faculty of Medicine Council Executive (March 7, 2007).

Please let me know if further information is required in order to have this request reviewed by Senate.

Sincerely

Dr. E. Etcheverry  
Professor and Director  
School of Medical Rehabilitation

Attach.

cc. Dean Sandham  
B. Becker

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R106-771 McDermot Avenue  
Winnipeg, Manitoba  
Canada R3E 0T6  
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Fax (204) 789-3927

Department of Physical Therapy  
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Winnipeg, Manitoba  
Canada R3E 0T6  
Telephone (204) 789-3897  
Fax (204) 789-3927

Department of Respiratory Therapy  
NA617-700 McDermot Avenue  
Winnipeg, Manitoba  
Canada R3E 0T2  
Telephone (204) 787-2900  
Fax (204) 787-4862