

Office of the Senate Secretariat

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Dear Member of Senate:

I advise you that a meeting of the Senate of Acadia University will occur at 4:00 pm on Monday February 8, 2010 in BAC 132.

The agenda follows:

- 1) Minutes of the Meeting of January 11, 2010
  - 2) Announcements and Communications
  - 3) Business Arising from the Minutes
    - a) Notice of Motion – A. Mitchell - Whereas Acadia University received a substantial gift approximately 10 years ago for the purpose of establishing the Foulis chair in Engineering and no chair has yet been created, I move that the chair of senate be directed to write to the secretary of the board of governors of Acadia University expressing concern over the delay in carrying out this Donor's wishes and requesting information regarding future plans for the establishment of a chair. I would further ask the senate chair to request that the board (if it has not done so already) develop a long range management plan for the Foulis endowment that is designed to generate a stable income to support the chair, and share with us the details of what that anticipated income might be and when it is expected to become available. **(910-44-END)**
  - 4) New Business
    - a) Curriculum Committee motion to accept proposed curriculum changes (document attached) **(910-45-CRE)**
    - b) Motion regarding the inclusion of minors on the transcript (motion attached) **(910-41-CCT)**
    - c) Research and Graduate Studies motion – appointments to the Research ethics Board (motion attached) **(910-46-REB)**
    - d) Honorary Degrees Committee – Honorary Degree and Professors Emeriti Nominations (information provided) **(910-47-HOD)**
- Other Business
- a) Curriculum Committee – notice of motion **(910-48-CRE)**  
Motion # 1  
On p. 7 of the Calendar, under the section entitled “Acadia’s technology-rich environment,” one can read the following statement: “Students will be able to download class notes.” The Senate Curriculum Committee moves that the

statement be altered to read: “Faculty members may opt to make lecture notes available to students through downloading.”

**Motion # 2 (910-49-CRE; 910-50-GRD)**

According to the Senate By-Laws, the duties of the Graduate Studies Committee include the following: “To consider graduate curriculum submissions from Departments, Schools and Faculties and to make recommendations to Senate. Such submissions include changes in existing programs, courses and degree requirements and proposals for new courses, degree requirements and programs” (VIII, ii, b).

On this basis, the Senate Curriculum Committee moves that its chair be a member of the Senate Graduate Studies Committee so as to ensure coordination in curriculum course proposals where undergraduate courses are also offered as graduate courses.

**Motion # 3 (910-51-CRE)**

The Senate Curriculum Committee moves that Senate determine the role of the Senate Curriculum Committee in the creation of interdisciplinary programs.

Sincerely,

ORIGINAL SIGNED

Rosemary Jotcham  
Registrar and Secretary of Senate

Curriculum Committee recommendations to Senate February 2010

## From the Faculty of Arts

### Economics Department:

(change in title and course description)

ECON 3883 Special Topics in Economics I  
becomes

ECON 3883 Special Topics in Economics

Selected topics in the area to allow students to take advantage of the expertise of visiting or current faculty. Topics may include theory of specialization in marriage, gender segregation in the labour market, and the status of women in the Canadian labour market.

(change in course description)

ECON 4013 History of Economic Thought

Readings in the evolution of economic thought from classical times to the present.

becomes

ECON 4013 History of Economic Thought

The course explores the ideas of the principal writers of the classical school of economic thought, particularly Smith, Malthus, Ricardo, Mill and Marx. Attention will also be given to the surrounding intellectual, political, and economic context within which these ideas were developed and the reasons why classical thought evolved into modern, neoclassical economics.

(change in course title)

Econ 3313 Theory of Labour Economics

Microeconomic aspects of the labour market. Topics include labour supply and demand, market structure and efficiency, human capital theory, and sexual and racial discrimination with reference, where possible, to Canada.

becomes

Econ 3313 Labour Economics

### English and Theatre Department:

(program modification)

The Honours program will be modified to include a course-based option. Students will be able to choose between a thesis-based honours program and a course-based honours program.

Bachelor of Arts with Honours in English

English Honours is attained through either a thesis-based or course-based program of study:

Option A: Thesis-based Honours:

The English core; 3h from Engl 3163, 3173, 3073 or Wgst 3023; Engl 4996; Engl 4060; 21h of English at the 2000/3000/4000 level (of which 6 hours must be 4000-level seminar courses exclusive of 4060 and 4996) (60h)

Option B: Course-based Honours:

The English core; 3h from Engl 3163, 3173, 3073 or Wgst 3023; Engl 4060; 27h of English at the 2000/3000/4000 level (of which 12 hours must be 4000-level seminar courses exclusive of 4060) (60h)

(Program modification)

Bachelor of Arts with Major in Theatre (Design and Production)

Thea 1483, Thea 2823, 2833, ~~2883, 2893~~, 4833, 4843, 3 h from Thea 2883, 2893, 12 h from Thea 2803, 2813, 3133, 3243, 3293, 3973; ~~Art 1113, 1123~~; plus 12 h from APSC 1223, Art 1113, 1123, 2013, 2023, 2033, 2043, 3013, 3023; plus 3h from Engl 2286\*; plus 3 6 h Engl 3883, 3893; 6 h from MUSI 1063,1073, 1253, 2163; plus a minimum of 9 6 credit hours from Thea 1001 (1h) and 2002 (2h) (63h).

\* The extra 3h in a 6h course will be subsumed in the 30 h of electives.

(Program modification)  
Bachelor of Arts with Major in Theatre (Performance)

Thea 1483, 2213, 2223, ~~Thea 1013, 1023, 2013, 2023~~, 2753, 2763, 2823, 2833, 2853, 2863, ~~2883-2893, 3013, 3023~~, 3313, 3323, 3853, 3863, 4413, 4423, 4833, 4843; 3 h from 2883, 2893, 3h from Engl 2286\*, 3h from Engl 3883, 3893, plus a minimum of 3 ~~6~~ credit hours from Thea 1001 (1h) and 2002 (2h) (~~66~~ 63 h).

\* The extra 3h in a 6h course will be subsumed in the 30 h of electives.

(change in description, prerequisite and level)

Thea 1013 Acting & Performance 1

A practical introduction to the basic principles of performance and acting. Prereq: Theatre major or permission of the Theatre faculty becomes

Thea 2213 Acting & Performance 1

Development of the basic principles of performance and acting. Prereq: Thea 1483 and Theatre major or permission of the Theatre faculty

(change in description, prerequisite and level)

Thea 1023 Acting & Performance 2

Continuing introduction to the basic principles of performance and acting. Prereq: Thea 1013 becomes

Thea 2223 Acting & Performance 2

Continuing development of the basic principles of performance and acting. Prereq: Thea 2213

(change in title and description)

Thea 1483 Introduction to Theatre1: Plays, Acting and Directing

This course introduces students to the various arts that define the theatrical experience, with a special focus on plays and playwriting, acting and directing. The course aims to develop an understanding and appreciation of the theatre arts through lectures, group discussion, practical labs and attendance at theatre productions. Course work includes presentations and written assignments including reviews. becomes

Thea 1483 Introduction to Theatre

This course provides students with a practical introduction to the basic principles of acting and performance.

(change in prerequisite and level)

Thea 2013 Acting & Performance 3

Intermediate development and training in performance and acting. Prereq: Thea 1023 or permission of the Theatre faculty

becomes

Thea ~~2013~~ **3313** Acting & Performance 3

Intermediate development and training in performance and acting. Prereq: Thea ~~1023~~ **2223** or permission of the Theatre faculty

(change in prerequisite and level)

Thea 2023 Acting & Performance 4

Continued intermediate development and training in performance and acting. Prereq: Thea 2013

becomes

Thea 3323 Acting & Performance 4

Continued intermediate development and training in performance and acting. Prereq: Thea 3313

(change in prerequisite)

Thea 2753 Voice and Speech 1

Introductory exploration of voice and speech for the actor. Prereq: Thea 1023 or permission of the instructor

becomes

Thea 2753 Voice and Speech 1

Introductory exploration of voice and speech for the actor. Prereq: Thea 1483 or permission of the instructor

(change in course number and prerequisite)

Thea 3013 Acting and Performance 5

Advanced techniques and development in training for performance and acting. Prereq: Thea 2023 or permission of the Theatre faculty

becomes

Thea 4413 Acting and Performance 5

Advanced techniques and development in training for performance and acting. Prereq: Thea 3323 or permission of the Theatre faculty

(change in course number and prerequisite)

Thea 3023 Acting and Performance 6

Continued advanced techniques and development in training for performance and acting. Prereq: Thea 3013

becomes

Thea 4423 Acting and Performance 6

Continued advanced techniques and development in training for performance and acting. Prereq: Thea 4413

### **Environment and Sustainability Studies**

(program modification)

The only change is the addition of the last sentence to # 1 below

The Environmental and Sustainability Studies (ESST) Major develops environmental leaders, managers, and professionals who are critical and insightful thinkers as well as creative problem solvers skilled in leading transformational change toward a more sustainable and just society.

1. 18h prescribed below that represent the Core in Environment and Sustainability Studies:

ESST 1003; RECR 1163; ESST 1023; ESST 2003; ESST 3003; ESST 4003. **Credit cannot be obtained for both Esst 1003 and Recr 1183**

2. 3h Core Concentration Course based on a choice of concentration area;

BUSI 2763 for concentration in Innovation & Entrepreneurship for Sustainability

ESST 2013 for concentration in Environmental Advocacy, Education & Activism

PHIL2303 for concentration in Environmental Thought & Practice

RECR 2033 for concentration in Sustainable Community Development

3. 12 hours of concentration courses based on choices for the concentration according to the following lists.

• Innovation & Entrepreneurship for Sustainability: Busi1703, Busi 2753, Busi 2733, Busi

3753, Busi 4553, Busi 4613, Busi 4633, Busi 4643, Busi 4963, Idst 2706, Esst 3103, Educ 4891, Esst 2013, Esst 2003, Econ 2713, Econ 3313, Idst 3103, Idst 3213, Idst 2213, Envs 2643, Envs 3113

• Environmental Advocacy, Education & Activism: Crel 2413, Educ 4890, Educ 4891, Hist 2283, Idst 3103, Pols 3213, Pols 3483, Phil 2303, Pols 3883, Pols 4843, Recr 3563, Econ 2713, Econ 3713, Envs 3423, Soci 2233, Soci 2563, Soci 3223

• Environmental Thought & Practice: Idst 3103, Crel 2413, Econ 2713, Engl 3523, Engl 3533, Envs 2643, Envs 3113, Envs 3313, Hist 2283, Hist 3383, Phil 2303, Pols 3883, Pols 3213, Pols 4843, Recr

1163, Recr 3563, Recr 4263, Soci 3223, Srmk 3573

• Sustainable Community Development: Econ 3713, Hist 2283, Hist 3383, Idst 3103, Idst 3213, Phil 2303, Pols 3213, Pols 3483, Pols 3543, Pols 4603, Pols 4843, Soci 2413, Soci 2563, Biol 2033, Biol 3363, Biol 4423, Envs 2643, Envs 3423, Nutr 1503, Busi 2753, Busi 3723, Recr 1233, Recr 2563, Recr 3453 Recr 3563, Recr 4083, Srmk 3573

4. 9 h of courses selected from the lists for the other three concentrations listed above.

5. Students must take a minimum of 6h from each of the Faculties of Arts, Professional Studies and Pure and Applied Science in their degree.

6. We have plans to propose an honours component to this program and will be submitting application for that during the first year of this new program.

### **History and Classics Department:**

(change in calendar description and course title)

Hist 2123: History of Women and Gender in Europe to 1789

A study of the role of women from the early civilizations to 1789. This course examines women from two perspectives. The first is the social, political, economic and scientific roles that women played in different societies. The second examines women of historical prominence who moved outside the traditional spheres and helped to define the roles of women in society.

becomes

Hist 2123: Gender and Sexuality in Europe to 1789

A study of the role of gender from the early civilizations to 1789. This course examines gender relations and societal expectations of women and men from the earliest civilizations to 1789.

(change in calendar description and course title)

Hist 2133 History of Women and Gender in Europe from 1789

A study of the role of women from 1789 to the present. This course provides an examination of the issues that defines women's roles socially, economically and politically including the rise of feminism, suffrage, equality and participation in the public and private spheres.

becomes

Hist 2133: Gender and Sexuality in Modern Europe

A study of the role of gender from 1789 to the 1960s. This course examines gender relations and societal expectations of women and men from the French Revolution to the mid-twentieth century. A discussion of the cultural and political dimensions of gender and sexuality.

(change in calendar description and course title)

Hist 2303 The Founding and Fracturing of the American Republic

This course will examine the forging of the United States in revolution and slavery. While exploring the Puritan settlements, the movement toward independence, and the expansion of democracy in the nineteenth century, close attention will be paid to the contradiction between American liberty and slavery. This course culminates in the Civil War and Reconstruction.

becomes

Hist 2303 America and the Age of Revolution

A series of revolutions rocked the eighteenth-century Atlantic World and transformed western society. This course explores those revolutions and the social and cultural forces that produced them. We focus on the American Revolution and its impact on the Caribbean and Latin America, where slave uprisings and national liberation movements challenged European colonial control.

(change of calendar description and course title)

Hist 2313 The Promise of Modern America

The course examines the American encounter with industrialization, imperial expansion, racial conflict, and the social upheaval in the twentieth century. Exploring the 1880s to 1980s, students will consider the ways

in which Americans struggled to expand democratic freedoms at the same time that the nation became a world superpower. The Civil Rights Movement, Cold War, the tragedy of Vietnam figure prominently. becomes

History 2313 The Dilemma of Modern America

This course examines the American encounter with industrialization, imperial expansion, popular culture, and movements for social reform. Covering the 1880s to the early 21<sup>st</sup> century, students will consider the tensions between the protection of democratic freedom and the emergence of the United States as a superpower. Our examination of the American past will emphasize a comparative and international perspective.

(change in course title)

Clas 3573 Classical Tradition 2 A study of the classical tradition in Medieval times, focussing on Saint Augustine's *Confessions* and Dante's *Divine Comedy*, with special attention paid to the classical model of the heroic quest and its medieval interpretation in light of Christian doctrine. May be offered for major credit in English.

becomes

Clas 3573 Classical Tradition 3

(The course description remains unchanged)

(new course)

Clas 2583 Classical Tradition 2

A study of the Classical tradition in modernity. Texts might include but are not limited to: Herodotus' *Histories* and Ondaatje's *The English Patient*, Plato's *Republic* and Atwood's *The Handmaid's Tale*, Apuleius' *Golden Ass* and Faulkner's *The Reivers*, Sophocles' *Oedipus the King* and Murakami's *Kafka on the Shore*. May be offered for major credit in English.

(new course)

Hist 2263 Canadian Women's History

A thematic survey of the history of women in Canada from Contact to the present. Special attention will be given to the diversity of women's cultures, the changing roles of women in industrial society, and efforts by women to achieve economic, political and social equality.

(new course)

Hist 2513 America in the Civil War Era

The defining moment of the American experience in the 19<sup>th</sup> century was the Civil War. Examining the emergence of slavery as a social system, the changing nature of antebellum society, and the growing split between the North and the South, this course examines why the Civil War happened and its tragic aftermath.

(new course)

Hist 2533 Introduction to Europe: the Middle Ages, c. 400-1500

The medieval period saw tremendous developments and upheavals. It involved Germanic migrations, development of kingdoms, feudalism and urbanisation. It is characterised by religious vitality and conflict as the Christian Church expanded, changed, and clashed with kingdoms, heretics and other religions.

Cultural achievements, including art, architecture, and learning, will be discussed.

(new course)

Hist 2543 Introduction to Europe: Since 1500

European history surveyed from 1500 to the present. Topics include the rise of religious division; the impact of reason and revolution; the evolution of the European nation-state; the rise and fall of European cultural, economic, and political dominance globally; the division of the continent and the establishment of the federal "super-state" after 1945.

(new course)

Hist 3393 Women & Gender in Canadian History

An in-depth examination of selected topics in Women's and Gender history in the Canadian context. Topics may include paid and unpaid work, health, parenthood, feminism, sexuality, social welfare, immigrant women, Native women, relations to the state, the military, popular culture and education. Prerequisite: HIST2263, 2433 or 2443 or permission of instructor

(new course)

Hist 3433 The Turbulent Era: America in Depression and War

The Great Depression represented the United States' most daunting challenge since the Civil War. Explores the labor upheavals and unemployed movements, the major political and cultural innovations of the period, and the American response to this crisis. The war and its impact on American society is critical to our investigation.

(new course)

Hist 3543 Power and Prestige in Medieval Europe

What was the nature of power and prestige in medieval Europe? How did these concepts differ? Who held authority and why? Kings, Queens, Popes, Saints, Merchants? Topics covered may include: regional variation; strength of the Church and its representatives; gender differences; knights and monarchs; landscape of power; and material representations of power.

(new course)

Hist 3673 Canadian Working-Class Culture

Seminar course on Canadian working-class culture from 1830 to 1980. Topics may include race, gender, sexuality, art, food and drink and rituals. Prereq: HIST 2773 and 2783.

(deleted courses)

Hist 2163 England to 1603

Hist 2173 England since 1603

Hist 2183 Russia to 1917

Hist 2193 Russia since 1917

Hist 2433 Women in Canada From 1500-1867

Hist 2443 Women in Canada since 1867

Hist 2713 The Birth of Europe, 300-1000 A.D.

Hist 2723 Medieval Europe: Gateway to the Modern World, 900-1500 A.D.

Hist 3523 Moonlight, Magnolias, and Myths: The South in American History

### **Department of Languages and Literatures:**

(course modification)

Fran 4103 Initiation aux méthodes de recherche

Ce cours aidera les étudiants à formuler un sujet de recherche, à se servir de différentes bibliographies et bases de données électroniques, et à préparer une bibliographie selon le format MLA. On examinera quatre perspectives majeures pour l'étude de la littérature : le texte lui-même, le texte et son auteur, le texte et son contexte, le texte et son lecteur / traducteur.

becomes

Fran 4103 Introduction aux méthodes d'analyse littéraire

Ce cours a pour but l'exploration de différentes méthodes pour analyser les textes littéraires. On examinera quatre perspectives majeures: le texte lui-même, le texte et son auteur, le texte et son contexte, le texte et son lecteur / traducteur / adaptateur. On mettra l'accent sur une variété de genres différents : poème, roman, théâtre, et scénario de film.

(change to program)

Bachelor of Arts with Major in Spanish



Span 1013, 1023, 2013, 2023, 2113, 2123, 24h Spanish electives **at the 3000 or 4000 level** (Span 3103/3203 or equivalent is required ~~is recommended~~) (42h)

Bachelor of Business Administration with a Major in Spanish

Span 1013, 1023, 2013, 2023, 2113, 2123, 24h Spanish electives **at the 3000 or 4000 level** (Span 3103/3203 or equivalent is required ~~is recommended~~) (42h)

See entry for the School of Business

Bachelor of Arts with Spanish as a Second Major

Span 1013, 1023, 2013, 2023, 2113, 2123, 24h Spanish electives **at the 3000 or 4000 level** (Span 3103/3203 or equivalent is required ~~is recommended~~) (42h)

Students with some knowledge of Spanish should check with faculty to determine their entrance level. (update for the calendar concerning study abroad)

International exchanges and study at a Spanish-speaking university

Students in each of the above programs must successfully complete an approved course of study ~~in each of the above programs~~, for a minimum of one semester (15h) ~~must be taken in Spanish~~ at a Spanish-speaking university. Acadia has an exchange program with the Universidad de La Rioja, Spain; but students may choose a university in any Spanish-speaking country with the permission of the department. The department will help students make the necessary arrangements for attending another institution. Students who are accepted into the direct exchange program with the Universidad de La Rioja will take 4 or 5 courses in Spanish at the university each semester. In addition to the 4 courses at the university, students participating in the direct exchange program may choose to take one course each semester with The Language Centre of University of La Rioja. This centre, or Fundación, offers Spanish language courses to help exchange students improve their language skills and make the most of their exchange experience. There are currently two levels of language courses: intermediate and advanced. Students who are placed at the advanced level will receive credit for Spanish 3103 and 3203. Students who are placed at the intermediate level will receive elective credits and will be required to take Spanish 3103 and 3203 upon return to Canada. Students who take all 5 courses at the university may also receive credit for Spanish 3103 and 3203, provided they have taken an advanced language course, such as 2092001 and 2092005, Conocimiento y uso de la Lengua Española I and II, or 2091010 and 2092013 Gramática Española I and II.

Students who are not accepted into the direct exchange program may study at the Foundation of the University of La Rioja (La Fundación) if a letter of permission is issued by Acadia University. This program offers 3 hours of Spanish Language instruction per day from Monday to Friday. Students may also take complementary courses in Spanish culture and civilization. The choice of complementary courses must receive prior approval from the Department. Students who take courses at the Fundación who are placed at the advanced level will receive credit for Spanish 3103 and 3203. Students who are placed at the intermediate level will receive elective credits and will be required to take Spanish 3103 and 3203 upon return to Canada.

**Philosophy Department:**

(new course)

Phil 4113 Topics in Social and Political Philosophy

This course examines selected concepts, themes, or traditions within the field of social and political philosophy. Specific course content in any given year will be available from the Philosophy department.

**Political Science Department:**

(change in calendar description and course title)

Pols 2683 International Relations I

This course examines International Relations (IR), the study of politics among states, intergovernmental organizations, and non-state actors. We explore patterns of conflict, war, peace, and cooperation among states and societies. We also study global governance organizations like the United Nations in addition to the foreign policies of states in relation to basic objectives like security, rights, and justice. becomes

Pols 2683 Global Politics

This course examines tensions between states and globalization. We review historical and changing patterns of conflict and cooperation in the international system. We study global governance organizations like the United Nations and processes of international law. We discuss issues like terrorism, nuclear proliferation and peacekeeping and humanitarian intervention.

(change in calendar description and course title)

Pols 2783 International Relations II

This course covers the new generation of global issues and problem solving in areas including debt, trade, the environment, population, food, health. We discuss security issues arising from terrorism, human rights and peacekeeping. We study "actors" such as peace groups, environmentalists, international organizations, and transnational corporations. We survey regional security in Africa, Asia and the Middle East.

becomes

Pols 2783 Global Issues

This course covers the new generation of global issues and problem-solving processes involving states and other actors beginning with the global economy: trade, development, aid and debt. We then study actors and processes in other global regimes including human security, the environment, gender and human rights.

(change in calendar description)

Pols 4293 Politics of Development

This seminar course critically explores politics and development in the global South. The geographic focus is on Asia, Africa, and Latin America, with comparisons to post-communist Europe. Topics covered include: legacies of colonialism, strategies of industrialization and their political impact regional economic integration, military coups, revolutions, transitions to democracy, and the role of religion and ethnicity in politics. Prereq: 54 credit hours and 3.00 or better CGPA

Becomes

Pols 4293 Politics of Development

This seminar course critically explores politics and political economy in the Third World, beginning with discussion of "development." Subsequently, it explores legacies of colonialism, strategies of economic development and their political impact, violent and peaceful political transitions, and factors mobilizing global and local civil society. Prereq: 54 credit hours and 3.00 or better CGPA

(change in calendar description)

Pols 4643 Critical Political Theory

An investigation into current literature in Marxist, feminist, psycho-analytic and poststructuralist approaches to the study of politics. Prereq: Pols 2346 or 2643 with B or higher, or permission of the instructor.

becomes

Pols 4643 Critical Political Theory

"Critical theory" refers to a tradition of holistic, interdisciplinary political theory grounded in a critique of domination. Thinkers studied may include Adorno, Baudrillard, Benjamin, Butler, Derrida, Foucault, Haraway, Jameson, and Marcuse. Emphasis on close reading and discussion of primary texts. Prereq: Pols 2346 or 2643 with B or higher, or permission of the instructor.

**Sociology Department:**

(new course)

Soci 2263 City, Space, Society

Introduction to key concepts and ideas in the social scientific study of cities. Examination of cities as spaces of intense contradictions, between equality and discrimination, wealth and poverty, and individuality and conformity.

(new course)

Soci 3593 Pacifism, Violence and Substantive Change

Many states, social movements, and sectors of civil society have long applauded pacifist ideas and motives to facilitate progressive social change. This course contextualizes and deconstructs whether such measures support structural transformation.

(new course)

Soci 4413 Class, Gender and Racialization

This capstone course examines exemplary analyses of the intersection of class, gender and racialization in a variety of social settings. Prereq: Sociology majors with fourth-year standing

(course deletions)

Soci 2653 Sociology of Youth

Soci 4173 Seminar in Aging and Gerontology

(change in calendar description)

Soci 1013 Introduction to Canadian Society

This course introduces sociological concepts, principles, and approaches through a focus on Canadian Society.

becomes

SOCI 1013 Introduction to Canadian Society

This course introduces sociological concepts, principles, and approaches through a focus on issues of relevance to Canadian society such as political economy, aboriginal rights, ethno-cultural diversity, and immigration, among others.

(change in calendar description)

Soci 1023 Intro to Human Societies

This course introduces sociological concepts, principles and approaches through a focus on the diversity of human societies, past and present.

Becomes

Soci 1023 Intro to Human Societies

An introductory cross-cultural approach to some basic anthropological and sociological concepts, principles, theories, and issues designed to foster understanding of human diversity, past and present.

(change in calendar description)

Soci 1033 Introduction to Sociology: Social Problems

This course introduces sociological concepts, principles and approaches through a focus on social problems in contemporary societies.

becomes

Soci 1033 Introduction to Sociology: Social Problems

This course introduces sociological concepts, principles and approaches through a focus on social problems in contemporary societies. Problems to be explored include but are not limited to: Consumerism, population growth, hunger, poverty, economic development, environment, disease, Indigenous groups and ethnic conflict, peasant protests and resistance, intimate violence, drug use, immigration and sexual orientation.

(change in calendar description)

Soci 1106 Introductory Anthropology

The study of human social and cultural organization with emphasis upon the wide variety of adaptation to be found in non-Western societies.

becomes

Soci 1106 Introductory Anthropology

A general introductory course in the study of humans from both a biological and cultural perspective, with a focus on socio-cultural anthropology. Attention will be given to the four-fields of anthropology and to how understanding diverse cultural practices can foster communication in our global world.

(change in calendar description)

Soci 1113 Introduction to Cultural Anthropology

This course introduces cultural anthropological concepts and approaches through a focus on the diversity of cultural practices around the world.

becomes

Soci 1113 Introduction to Cultural Anthropology

As an introductory course in cultural anthropology, the course is intended to familiarize students with customs, beliefs, behaviours and institutions held by people throughout the world. Emphasis is placed on understanding and interpreting cultural behaviour, and the meanings humans assign to cultural phenomena, in order to facilitate communication and dialogue.

(change in calendar description)

Soci 2003 Introduction to Social Research

An introduction to the ways sociologists conduct research. Students will develop an understanding of qualitative and quantitative methodological principles, with an emphasis on qualitative research.

becomes

Soci 2003 Introduction to Social Research

An introduction to the ways sociologists and socio-cultural anthropologists conduct research. Students will develop an understanding of qualitative and quantitative methodological principle with an emphasis on qualitative research.

(change in calendar description and course title)

Soci 2103 Intro to Social Theory

An overview of varieties of sociological theorizing through a focus on major nineteenth and twentieth-century sociological theorists.

becomes

Soci 2013 Introduction to Classical Social Theory

An overview of varieties of social theorizing through a focus on major theorists from the Enlightenment to the twentieth century, examined in social and historical context.

(change in calendar description)

Soci 2113 Issues in Developing Societies

Current issues confronting the former colonies of the imperial systems of western Europe. A reappraisal of the study of small-scale traditional societies. Topics include urbanization, agricultural and industrial development, the effects of the imposition of colonial rule, international power relationships and the distribution of resources, overpopulation and food shortage, and revolutionary movements.

becomes

Soci 2113 Issues in Developing Societies

Current development issues confronting the peoples of the majority world are introduced. Topics may include: conventional and alternative models of societal development; imperialism; wealth creation and impoverishment; class, ethnic and gender dimensions of international development; forced migration and displacement; reform and revolution.

(change in calendar description)

Soci 2123 Ethnic and Race Relations: A Canadian Introduction

A review of fundamental concepts and models pertinent to ethnic relations in Canada, followed by case studies of linguistic, national, racial and religious groups. Special topics include multiculturalism, affirmative action, and ethnic inequality. Prereq: second year standing

becomes

Soci 2123 Ethnic and Race Relations: A Canadian Introduction

A brief review of fundamental concepts and models is followed by case studies of linguistic, ethnic, racial and religious groups. Special topics include immigration policy, multiculturalism and employment equity.

Prereq: second year standing

(change in calendar description)

Soci 2153 Social Inequality Major theoretical explanations and empirical evidence will be used to explore why there are those who "have" and those who "have-not," in terms of income, wealth, power, and status. Topics may include: the magnitude of social inequality globally and in Canada, trends in social mobility; inequality by sex, race, and other ascribed characteristics; selected consequences of social inequality.

becomes

Soci 2153 Social Inequality

Major theoretical explanations and empirical evidence will be used to explore why there are those who "have" and those who "have-not," in terms of income, wealth, power, and status. Topics may include: the magnitude of social inequality, trends in social mobility; inequality by gender, race, and other ascribed characteristics; selected consequences of social inequality.

(change in calendar description)

Soci 2223 The Sociology of Work

The categorization of work in terms of occupations. The professional, the skilled, the unskilled, and the processes of professionalization and occupational specialization. The sociological implications of how the social structure defines and reflects occupational categories.

becomes

Soci 2223 The Sociology of Work

Examines the history of work, inequalities between workers, and how work is structured and carried out from both descriptive and critical perspectives. Focusing on paid and unpaid work, the course also explores how work is a mechanism of social control and a cause of alienation, and how people resist these forces.

(change in calendar description)

Soci 2233 Technology and Society

This course introduces key issues and debates in the sociology of technology. The focus will be on the interplay between technology, social practices and cultural values.

becomes

Soci 2233 Technology and Society

This course introduces key issues and debates in the sociology of technology. The focus will be on the interplay between technology, social practices and cultural values. Topics include the impact of social networking sites on friendship, how ideas about technology shape and direct social relations, and the social influences of emerging technologies.

(change in calendar description and prerequisite)

Soci 2323 Sociology of Families

This course provides a sociocultural overview of family life. Topics covered may include the response of families to economic and social change and variations in practices and values of families related to differences in cultural origin, class, sexuality and religion. Prereq: 6 h of 1000 level sociology

becomes

Soci 2323 Sociology of Families

A theoretical and empirical review of the changing nature of families in response to social and economic forces over time. The issues will include partnering, parenting, intimate relations, gender roles, divorce, socioeconomic inequalities, work and family violence. Topics will be cross-cultural and Canadian.

(change in calendar description)

Soci 2333 Sociology of Religion

The major perspectives and themes in the sociology of religion. The basic theoretical approaches and a number of contemporary issues are explored. Topics include: conservative versus revolutionary functions of religion; the influence of class on **religion; sectarianism; the** Protestant ethic debate; new religious movements; secularization. Prereq: second year standing  
becomes

Soci 2333 Sociology of Religion

An introduction to the sociology of religion, paying particular attention to trends and current issues in Canada. Topics include: grand theories of religion's universality; religion vs spirituality; modern sects; secularization; Conservative vs. Mainline Protestants; Catholics inside & outside Quebec; sexism in Christianity; new religious movements.

Prereq: second year standing  
(change in calendar description)

Soci 2363 Women and Aging

Women's experiences of aging are exacerbated by a variety of issues such as sexism, the feminization of poverty, and the double standard of aging and their roles as life long care providers. This course will explore the sociological relevance of issues related to the social, demographic, and economic factors, which are major determinants to the well being of aging women. Prereq: Soci 2343 or 2353

becomes

Soci 2363 Women and Aging

This course will explore the sociological relevance of issues related to the social, demographic, political and economic factors, which are major determinants to the well being of aging women. Prereq: Soci 2343 or 2353

(change in calendar description)

Soci 2403 Gender and Sexuality I

A survey of socio-cultural perspectives and research findings in the areas of gender differences, gender inequalities, gender relations and sexualities. Prereq: 6 hours of Introductory Sociology

becomes

Soci 2403 Gender and Sexuality I

A survey of socio-cultural perspectives and research findings in the areas of gender differences, gender inequalities, gender relations and diverse sexualities.

(change in calendar description)

Soci 2413 First Nations and Aboriginal Peoples of Canada

The political, economic and social condition of native peoples in Canada and their relations with the rest of Canadian society. Where possible, particular attention will be paid to the Maritimes. Topics include: special status and government policy; land claims and aboriginal rights; the reserve system; the growth of Indian and Inuit organizations; Metis and other non-recognized Indians; urbanization. Prereq: second year standing

becomes

Soci 2413 First Nations and Aboriginal Peoples of Canada

The conquest and subsequent (ill) treatment of First Nations by Canada followed by a review of current issues. Particular attention is paid to the Maritimes. Topics include: poverty/economic dependency; modern treaties ;the status of Aboriginal women; residential schools; over-representation in jail; Aboriginal rights; self government & Nunavut. Prereq: second year standing

(change in calendar description and course title)

Soci 2533 Cultural Studies

A survey of approaches to popular cultures as an arena of domination and resistance

becomes

Soci 2533 Popular Culture and the Media

A survey of approaches to popular culture as an arena of domination and resistance. Focus is on representation, identity and difference in a variety of popular media forms.

(change in calendar description)

Soci 2563 Social Movements

Organized attempts to promote social change. Emphasis is on substantive investigation of the impact of social class on the social origins, development and success or failure of a variety of social movements.  
becomes

Soci 2563 Social Movements

Organized attempts to promote social change. Emphasis is on substantive investigation of the impact of social class, gender, and racialization on the social origins, development and success or failure of a variety of social movements.

(change in calendar description)

Soci 2633 Sociology of Health and Healthcare

An investigation of the nature of health as a social issue and the impact of illness on social behaviour; a consideration of the socialization and socio-psychological process of coping with illness as well as an examination of the professions involved in the provision of health services.

becomes

Soci 2633 Sociology of Health and Healthcare

An investigation of social factors and forces that affect health, illness and health care. The roles of health care providers, the state, and corporate interest groups in shaping experiences of health and illness and in determining the provision of healthcare will be analyzed in a socio-historical context.

(change in calendar description)

Soci 2723 Canadian Criminal Justice

The criminal justice system and the structure of formal social control in Canada. Topics may include policing, court processes, modes of punishment, youth justice, and minority groups in the justice system.

becomes

Soci 2723 Canadian Criminal Justice

The criminal justice system and the structure of legal regulation and enforcement in Canada. Topics may include policing, court processes, modes of punishment, youth justice, wrongful convictions, and minority groups in the justice system.

(change in course title and prerequisite)

Soci 2853 Belief Systems in Cross Cultural Perspective

An examination of how belief systems and their symbolic representations give meaning to the universe and one's place in it. Topics to include the nature of ritual, the structure of myth, magic, witchcraft and how these beliefs contribute to social and cultural change. Prereq: 6h of 1000-level sociology with a grade of C- or better

becomes

Soci 2853 The Anthropology of Magic and Religion

An examination of how belief systems and their symbolic representations give meaning to the universe and one's place in it. Topics to include the nature of ritual, the structure of myth, magic, witchcraft and how these beliefs contribute to social and cultural change.

(change in calendar description and course title)

Soci 3033 Theories of Cultural Radicalism

An examination from a sociological perspective of the origins and expressions of imperatives for social transformation expressed in the theoretical paradigms of anarchist, critical, and humanist traditions. Prereq: Soci 2103 or permission of dept.

becomes

Soci 3033 Theorizing Culture

An introduction to the main paradigms for the analysis and interpretation of culture. Emphasis is on processes of meaning making, identity formation, materialism, idealism, and the relative autonomy of culture. Prereq: Soci 2103 or permission of dept.

(change in calendar description and course title)

Soci 3093 20th Century Social Thought

An examination of the emergence and development of Western social thought in the twentieth century, in its social and historical context. Topics may include Decadence, Revolutionary Marxism, Fascism, the Cold

War, Existentialism, cultural rebellion, Feminism, Black Power, Structuralism, and Post-Modernism.

Prereq: Soci 2103 or permission of dept.

becomes

Soci 3093 Modern Social Thought

An examination of the emergence and development of modern, Western social thought, in its social and historical context. Topics may include Decadence, Revolutionary Marxism, Fascism, the Cold War, Existentialism, cultural rebellion, Feminism, Black Power, Structuralism, and Post-Modernism. Prereq: Soci 2103 or permission of dept.

(change in calendar description)

Soci 3113 Qualitative Approaches to Social Analysis

A presentation and analysis of several qualitative methodological approaches to research in social science including life-history, ethnography, contextual and constructive study, case-study, and participant observation. Emphasis is on connection of theory and method. Prereq: SOCI 2003 and 2013 or equiv; restricted to sociology majors, third year standing.

becomes

Soci 3113 Qualitative Approaches to Social Analysis

A presentation and analysis of several theoretical issues and qualitative approaches to research in the social sciences, including hands-on methods projects, such as interviewing, participant observation and ethnography. Prereq: SOCI 2003 and 2013 or equiv; restricted to sociology majors, third year standing.

(change in calendar description, course title and prerequisite)

Soci 3253 Sociology of Work 2

An in-depth examination of selected topics drawn from recent research within the field of the social organization of work. Topics may include: work intensification, paid and unpaid labour, globalization and worker responses, and the education-jobs gap. Prereq: One of Soci 2223, 2233, or Idst 2253

becomes

Soci 3253 Work, Family, and Gender

Examines how work in both formal and informal economies have been gendered over time and across societies. Topics explored may include the gender wage gap, occupational sex segregation, balancing work and childcare, the outsourcing of housework, and worker, state, and employer responses to these changing dynamics. Cross-listed with WGST. Prereq: Soci 2223 or 2323

(change in calendar description and course title)

Soci 3433 Community Ethnographies

The intensive study of one ethnographic area. Focus will be on description, interpretation, and analysis of behaviour to draw relevant comparisons between ourselves and others.

becomes

Soci 3433 Ethnography: Writing Cultures

An ethnographic (ethnos Greek for 'nation' or culture, graphy used to refer to the 'writing of') investigation of a particular culture or region of the world. Focus is on the description, interpretation and analysis of experience to draw relevant comparisons between ourselves and others to foster understanding and better communication.

(change in calendar description and course title)

Soci 3453 Economic Anthropology

Analysis of the processes and systems around which economic life is organized in the pre-literate, archaic and modern societies. Theoretical and methodological issues will be addressed and ethnographic data will be used to illustrate principles and concepts.

becomes

Soci 3453 Reciprocity, Redistribution and Exchange

Analysis of the processes and systems around which economic and social life is organized in societies past and present. Theoretical and methodological issues addressed will include understanding the economy as



embedded in social relationships and how surplus and scarcity, among other economic processes, are social constructs. Cross cultural examples will be used.

(change in calendar description and course title)

Soci 3553 Sociology of the Arts

This course provides an introduction to the sociology of the visual and performing arts. The focus will be on the social practices and organizational frameworks related to artistic production/creation, mediation processes and the reception of artworks (and artists).

becomes

Soci 3553 Sociology of the Arts and Artists

An introduction to the sociology of the arts and artists, through the examination of multiple sites and scenes of artistic production and consumption, from operas to homemade movies, and rock stars to folk artists.

The arts will be treated as a set of social practices through which meaning is produced and contested.

(change in calendar description)

Soci 3613 Sociology of Education

The role of schooling in society with particular focus on the question of who gets what type and amount of schooling, the internal workings of the school systems, and the effects of education on other aspects of an individual's life.

Becomes

Soci 3613 Sociology of Education

The role of schooling in society with particular focus on who gets what type and amount of schooling, the formal and informal workings of school systems and cultures, the social consequences of schooling, and progressive education.

(change in calendar description and course title)

Soci 4113 Seminar in Cultural Studies

Selected topics may include native studies, food, ethnicity, religion, medicine and culture, peoples of Asia, Chinese society. Restricted to Sociology majors; fourth year standing

Becomes

Soci 4113 Seminar in Contemporary Culture

Selected topics in cultural studies. Restricted to Sociology majors; fourth year standing.

(program modification)

Anthropology: 1106, 1113, 2113, 2533, 2853, 3223, 3433, 3453, 4113

Social research/methodology: 2003, 2013, 3103, 3113, 3153, 4133

Social theory: 2103, 3013, 3033, 3043, 3053, 3093, 4143, Idst 3023

Political economy/development: 2113, 2533, 3253, 3523, 4123

Work and occupations: 2223, 2253, 3253, 4153

Gender and feminism: 2363, 2853, 2806, 3803, 4163, Idst 2906

Criminology: 2713, 2723, 2753, 3703, 3733, 3743, 4183

becomes

Anthropology: 1106, 1113, 2113, 2533, 2853, 3223, 3433, 3453, 4113

Social research/methodology: 2003, 2013, 3103, 3113, 3153, 4133

Social theory: 2103, 3013, 3033, 3043, 3093, 4143, Wgst 3023

Political economy/development: 2113, 2533, 3253, 3523, 4123

Work and occupations: 2223, 2253, 3253, 4153

Gender and feminism: 2363, 2853, 2806, 3803, 4163, Wgst 2906

Criminology: 2713, 2723, 2753, 3703, 3733, 3743, 4183

Culture and Media: 2243, 2533, 3033, 3553, 4113

(program modification)

In all 4 lists of programme requirements, Soci 3053 is listed as an optional requirement (one of ... 3053 ...). 3053 no longer exists as a course; the inclusion of 3053 is in error.

**Bachelor of Arts with Honours in Sociology**

6h from Soci 1006, 1106, or two of 1013/1023/1033/1113 (only 6h from 1006/1013/1033; only 6h from 1106/1023/1113); 2003 and 2013; 2103; 3013, one of 3033, 3043, 3093, Wgst\_3023; one of 3103, 3113, 3163; 4003; one of 4113, 4123, 4133, 4143, 4153, 4163, 4173, 4183 or 4193; Programs of Study - Page 43

**Bachelor of Arts with Honours in Sociology with 2nd Major**

6h from Soci 1006, 1106, or two of 1013/1023/1033/1113 (only 6h from 1006/1013/1033; only 6h from 1106/1023/1113); 2003 and 2013; 2103; 3013, one of 3033, 3043, 3093, Wgst\_3023; one of 3103, 3113, 3163; 4003; one of 4113, 4123, 4133, 4143, 4153, 4163, 4173, 4183 or 4193; 4996 and 18h additional sociology (54h), no more than 6 hours at the 1000 level. 4996 and 24h additional sociology (60h), no more than 6 hours at the 1000 level

**Bachelor of Arts with Major in Sociology**

6h from Soci 1006, 1106 or two of 1013/1023/1033/1113 (only 6h from 1006/1013/1033; only 6h from 1106/1023/1113); 2003 and 2013; 2103; one of 3013, 3033, 3043, 3093, Wgst\_3023; one of Soci 3103, 3113, 3163; 4413; and 24h additional sociology (48h), no more than 6 hours at the 1000 level

**Bachelor of Arts with Double Major in Sociology**

6h from Soci 1006, 1106 or two of 1013/1023/1033/1113 (only 6h from 1006/1013/1033; only 6h from 1106/1023/1113); 2003 and 2013; 2103; one of 3013, 3033, 3043, 3093, Wgst\_3023; one of Soci 3103, 3113, 3163; 4413; and 18h additional sociology (42h), no more than 6 hours at the 1000 level.

Co-op option available – see program description on page 33.

The prerequisite to all 2000-level courses is 6h from Soci 1006, 1106 or 6 hours from 1013/1023/1033/1113 or equivalent unless otherwise noted; a C- or better is required to register in Soci 2003 and 2013 and Soci 2103; a grade of C- or better is required in Soci 2003 and 2013 and 2103 to register in other courses that have these courses as pre-requisites; Soci 2343, 2353, 2633, and 3363 are open to those registered in the Health Sciences Option without the usual prerequisites; to 3000-level courses, 12h Soci completed including 1006 or 1106 or 6h from 1013/1023/1033/1113; to 4000-level courses, 21h Soci completed including 1006, 1106, or 6h from 1013/1023/1033/1113, 2003, 2013, and 2103; 4000-level courses are restricted to Sociology majors; additional prerequisites noted below.

\* Students are encouraged to take Soci 2003 and 2013 in their second year.

(program modification)

Delete Idst 2913 and 2923 from list of Idst courses given as credit in sociology

Major credit is also given for Crel 2443, 3123, 3693, Idst 2253, 2913, 2923, 2906, 3023, 3123, Pols 4793, and Psyc 2103.

becomes

Major credit is also given for Crel 2443, 3123, 3693, Idst 2253, 3123, Wgst 2906, 3023, Pols 4793, and Psyc 2103.

(program modification)

To require Soci 4413-Class, Gender and Racialization in place of one 3-hour elective. To provide a capstone course for 4<sup>th</sup> year majors

Sociology elective (total hours required for Major does not change).

As recommended by the recent external review, a 4<sup>th</sup> year capstone course has been added.

**Women's and Gender Studies:**

(new course)

Wgst 3703 Special Topics in Women's and Gender Studies

In depth study of a selected topic in the area. Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty. Topics may include domestic violence, women in film, women and food, or women in science. Prereq: at least second year standing.

(change in course title and prefix)

Idst 1413 Introduction to Women's Studies

As a general introduction to women's studies, this course will provide a multi-disciplinary focus on feminist principles and approaches to scholarship. Topics to be presented include, but are not limited to women's

sexuality, the body and health, aging, socialization, economic and political roles, spirituality and women throughout history.

becomes

Wgst 1413 Introduction to Women's and Gender Studies

As a general introduction to women's studies, this course will provide a multi-disciplinary focus on feminist principles and approaches to scholarship. Topics to be presented include, but are not limited to women's sexuality, the body and health, aging, socialization, economic and political roles, spirituality and women throughout history.

(change in course title and prefix)

Idst 2906 Women in the Modern World

The nature, status, image and changing role of women in the modern world. Emphasis is on the study of women from a cross-cultural perspective, although comparisons with women in Canada and the US will be made. The course may be offered for major credit in sociology. Prereq: second year standing or equivalent

becomes

Wgst 2906 Women and Gender in the Modern World

This interdisciplinary course analyzes the nature, status, image and changing roles of women and men in the world today, placing gender at the forefront of analysis from a cross-cultural perspective, with comparisons to Canada. May be taken for major or minor credit in Canadian Studies and Sociology.

Prereq: second year standing or equivalent

(change in calendar description and prefix)

Idst 3023 Feminist Theory

This course examines the principal components of feminist theory through the study of works by central feminist thinkers, who cross the boundaries of standard academic disciplines. The course will begin with a review of the feminist critique of conventional social, political, and literary theory and go on to consider such topics as: feminist analysis of science and nature, the gendered subject debate, sexual/textual politics, psychoanalytic and linguistic work which has influenced literary theory and modern political theory in the areas of feminism and neo-pluralism and feminism and contemporary democratic theory. May be offered for major credit in English, political science, and sociology.

becomes

Wgst 3023 Feminist Theory

The course examines feminist theory through the analysis of feminist texts across academic disciplines. Topics of discussion vary but include key concepts such as identity and class, race, and gender; identity politics; sexuality and heteronormativity; intersectionality; and language and subjectivity. May be offered for major credit in English, political science, and sociology.

(change in calendar description and prefix)

Idst 3503 History of Ideas About Women

Major writings by and about women in the history of Western civilization. Students will read excerpts from classical texts (Plato and Aristotle) to modern treatises by authors such as Mary Wollstonecraft, Virginia Woolf, Simone de Beauvoir, and Betty Friedan. The writings by these authors will be examined in their historical context and their significance for women's lives will be considered. May be offered for major credit in history.

becomes

Wgst 3503 Making Men and Women: Gender Through the Ages.

Major writings which contributed to or were about the construction of gender throughout history. Students may read excerpts from classical texts to modern treatises and their significance for men's and women's lives will be considered. May be offered for major credit in English, history, and sociology.

On p. 43-44 of the Calendar:

**WOMEN'S AND GENDER STUDIES** Room 302, Beveridge Arts Centre

*Coordinator: Dr. Phyllis L. F. Rippeyoung*

Women's and Gender Studies emphasizes gender as a criterion of analysis in areas such as scholarly activity, social relations, cultural expression, and politics. Students are encouraged to develop critical analyses of established theoretical frameworks, institutions, ideologies, history, identity, science, language and culture while exploring feminist alternatives. Students should note that some of the courses have prerequisites within their individual departments.

(program modification)

These changes are to correct a number of changes in the course calendar based on other submitted course changes, additions, and deletions.

On p. 31 of the Calendar:

Interdisciplinary studies courses

COOP Co-operative Education

IDST Interdisciplinary studies

WGST Women's and Gender Studies

On pages 122, 147, 180, and 197—WGST 3023 Feminist Theory

Page 147—WGST 1413 Introduction to Women's and Gender Studies

Page 149, 196—WGST 2906 Women and Gender in the Modern World

Pages 144 and 150—WGST 3503 Making Men and Women: Gender Through the Ages

On page 213 of the Calendar:

Women's and Gender Studies

Rippeyoung, Phyllis, BA(McGill), MA, PhD(Iowa), Assistant Professor

On p. 32 of the Calendar:

Bachelor of Arts with Honours (Major)

1. The arts core (30h)

2. A minimum of 48h in one arts subject, mathematics, or psychology, including at departmental option a thesis, to satisfy honours major requirements. (Departments may require more than 48h).

3. A minimum of 24h to satisfy minor requirements in a single subject or in multidisciplinary studies. Only 6h at the 1000-level may be offered towards minor requirements in one subject.

4. Electives to complete a total of 120h.

5. 96h must be taken in the faculties of arts and science

Arts subjects that may be offered for honours are classics, economics, English, French, German, history, Latin, philosophy, political science, sociology, and Women's and Gender Studies. Each course offered towards the major must be completed with a grade of B- or better. Either the major or the minor must be in an arts subject. In exceptional cases students may be permitted by the Dean of Arts to offer honours in other science subjects.

Bachelor of Arts with Major in Women's and Gender Studies

1. The arts core (30h)

2. 42h of Women's and Gender studies courses including Wgst 1413, 2906; 3023; at least 12h of the courses must be at the 3000/4000 level

3. 24h to satisfy minor requirements

4. Electives to complete a total of 120h

Bachelor of Arts with Honours in Women's and Gender Studies

1. The arts core (30 h)

2. 48h of Women's and Gender studies courses including Wgst1413, 2906; 3023; at least 12h of the courses must be at the 3000 level

3. 24h to satisfy minor requirements
4. 6h at the 4000-level and 4996 (thesis)
5. Electives to complete a total of 120h

#### Women's and Gender Studies as a Minor

A minor in Women's and Gender Studies consists of 24h, including the three required courses of the program. With the exception of Idst or Wgst courses, no more than 12h can be in a single discipline. Some upper-level courses have pre-requisites. See the relevant listing under "Multidisciplinary Minors" at [www.arts.acadiau.ca](http://www.arts.acadiau.ca) or check the Women's and Gender Studies website at <http://womenstudies.acadiau.ca>

Women's and Gender Studies Courses:

Wgst 1413, 2906, and 3023 are required

- Art 3513
- Busi 3753
- Clas 2663, 3123, 3443
- Crel 2533, 2553
- Econ 3883
- Educ 4633
- Engl 3553, 3833, 3843, 3983
- Fran 3203
- Hist 2123, 2133, 2263, 2553, 3393, 3493, 3643
  - Idst 3123
- Kine 3353
- Phil 2233
- Pols 3013, 3513, 4883
- Psyc 2163, 2183
- Soci 2323, 2343, 2363, 2403, 3253, 3403, 3803, 4163
- Thea 3973
- Wgst 3123, 3503

Women's and Gender Studies as a Second Major

Wgst 1413, 2906; 3023; 30h from the Women's and Gender Studies option courses. (42h)

#### **School of Music:**

(new course)

Musi 2383 – Introduction to Gamelan

A hands-on introduction to the playing techniques and repertoire of gamelan - the traditional tuned percussion orchestra of Indonesia. The course is presented in weekly "laboratory" sessions, which are supplemented by the independent study of readings and audio-visual material. The gamelan class will also participate in a year-end performance demonstration.

(course deletions)

Musi 3156 Composition

Musi 4156 Advanced Composition

(change in calendar description)

Musi 1013 Understanding Music for Non-Music Majors 1

A history of musical style from the Middle Ages to the present day examining selected masterpieces of Western music. Emphasis is upon developing an understanding and appreciation of style through listening and selected reading; requires no previous formal training in music. This course is not available to music majors for credit in the degree.

becomes

Musi 1013 Understanding Music for Non-Music Majors 1

A history of musical style in Western music from the Middle Ages to the 18<sup>th</sup> century. Emphasis is upon developing an understanding and appreciation of style through listening to select master pieces and reading. No previous formal training in music is required but essential knowledge of fundamentals of music and the art of listening will be introduced. This course is not available to music majors for credit in the degree.

(change in course description and prerequisite)

Musi 1023 Understanding Music for Non-Music Majors 2

Focusing on 20<sup>th</sup> century music this course examines the business of music and many of the contemporary styles that flourish in today's pop culture. Emphasis is upon creating a broad and critical understanding of music culture through recording, listening, reading, and in class discussions. Prereq: Musi 1013 with C- or better

becomes

Musi 1023 Understanding Music for Non-Music Majors 2

A history of musical style in Western music from the 18<sup>th</sup> century to the 20<sup>th</sup> century. Emphasis is upon developing an understanding and appreciation of style through listening to select master pieces, reading and awareness of essential modern art movements. No previous formal training in music is required but essential knowledge of fundamentals of music and the art of listening will be introduced. This course is not available to music majors for credit in the degree.

(change in course description and prerequisite)

Musi 1353 Guitar Class

An introduction to the guitar and skills related to playing guitar. Topics covered include: rudimentary theory, scales, technique, strumming, finger picking, learning to read music, chord diagrams, and other various forms of tablature. Throughout the course various styles of music are used including classical, folk and blues. No previous guitar knowledge is required. Note: there is a \$200 surcharge for non-music majors. This course cannot be used for credit if the student has received credit for Continuing Education's Musi 2903 "Introductory Guitar."

becomes

Musi 1353 Guitar Class

Introduction to the guitar and skills related to playing guitar. Topics covered include: rudimentary theory, scales, strumming, finger picking, learning to read music, chord diagrams, and other various forms of tablature. Various styles of music are used including classical, folk and blues. No previous guitar knowledge required. Note: there is a \$200 surcharge for non-music majors. Students may not also be concurrently enrolled in principal or secondary applied guitar.

(change in calendar description and course title)

Musi 2163 Music Technology 1

Music technology for Music Education and Music Therapy majors. Music technology tools for the classroom and individual therapy. MIDI ensemble improvisation. Digital music instruments, computer music notation, basic MIDI/audio sequencing, editing and recording. Includes practical laboratory in the Acadia MIDI Lab.

becomes

Musi 2163 Introduction to Music Technology

An introduction to Digital music instruments, computer music notation, basic MIDI/audio sequencing, editing and recording. Includes practical laboratory in the Acadia MIDI Lab.

(change in calendar description)

Musi 2870 Concert Credit

All music majors are required to attend concerts in the Performing Arts Series in each year that they are enrolled in a music degree program for Concert Credit. A minimum of 75% of the scheduled concerts must be attended in order to receive credit.

becomes

#### Musi 2870 Concert Credit

All music majors are required to attend concerts in the Performing Arts Series. A minimum of 50% of the scheduled PAS concerts must be attended in order to receive credit. In addition, students must attend the School of Music's weekly recital and lecture series.

(change of prerequisite)

#### Musi 3660 Third Year Recital

Public recital requirement for third year Bachelor of Music in Performance majors.  
becomes

#### Musi 3660 Third Year Recital

Public recital requirement for third year Bachelor of Music in Performance majors. Pre-requisite:  
Permission of the School.

(change in prerequisite)

#### Musi 4943 Graduation Recital.

Students must be concurrently enrolled in the final year of Principal Applied Study.  
becomes

#### Musi 4943 Graduation Recital

Students must be concurrently enrolled in the final year of Principal Applied Study. Pre-Requisite: Music 3660 with B+ or higher.

(change to a program)

Music Therapy students will now play in School of Music ensembles and not pursue music therapy – specific ensembles. Material previously covered in the music therapy ensembles has been absorbed into other courses and labs.

#### Bachelor of Music Therapy (126h)

This program provides students with the opportunity to gain an understanding of music therapy theory and research, as well as proficiency in clinical practice. The program requires a high level of musicianship on more than one instrument. The supervised clinical placements provide experience working with diverse clinical populations. Following graduation a 1000-hour (six month) internship is required to be eligible for accreditation with The Canadian Association for Music Therapy.

1. Musi 1133, 1130L, 1143, 1140L, 1253, 1263, 2133, 2130L, 2143, 2140L, 2163 (21h)

2. Music 1563, 2573, 3563, 3560L, 3573, 3570L, 4563, 4560L, 4573, 4570L (18h)

3. Music 1663, 2663 (Secondary Applied Keyboard), Music 4663 (Secondary Applied Guitar) (9h)

4. Music 1333, 1353, 2083, 4553 (12h)

5. 6h English and 6h History (12h)

6. Psyc 1013, 1023, 2113, 2153 plus 6h additional Psychology; Biol 1813 (21h)

7. 18h music electives (18h)

8. 9h non-music electives (9h)

9. First year music therapy students will take Musi 1600 and one section of either Musi 2701 or 2800. Students in each subsequent year will take one section of Musi 2701. Students must successfully complete both the fall and winter terms of each ensemble. (6h)

(change to a program)

The senior composition courses in this program are currently conducted as independent lessons similar to instrument lessons in the School of Music. We are simply asking to change the course numbers to reflect this course delivery.

#### Bachelor of Music with Concentration in Composition (126h)

1. Bachelor of Music Core (54h + 6h)

2. Music 2183, 3666 (Principal Applied Study [Composition]), 4666 (Principal Applied Study [Composition]) 4953 (18h)

3. 18h from Music 2193, 3133, 3163, 3193, 3223, 3233, 3283, 4103, 4113, 4123, 4213, 4223, Idst 3173, 3183, 4173 (18h)
4. 9h music electives
5. 21h non-music electives

(program change)

Expand the choice of the required history courses in the Bachelor of Music Core and Bachelor of Arts in Music to include HIST 1413/1423 – Global History.

Bachelor of Music Core

1. Musi 1133, 1130L, 1143, 1140L 1253, 1263, 1666, , 2133, 2130L 2143, 2140L 2163 2263, 2283, 2666, 3203. Each of these courses must be completed with a grade of C- or better ( 42h)
2. 6h Engl at 1000 level (6h)
3. Hist 1103, 1113 or Hist 1413, 1423.
4. First year music students will take Musi 1600 and one section of either Musi 2701 or 2800. Students in each subsequent academic level will take one section of Musi 2701 and one section of Music 2800. Students must successfully complete both the fall and winter terms of each ensemble. (6h or 8h)
5. Music majors must complete Musi 2870, Concert Credit, in each year of their program.

Bachelor of Arts in Music (120h)

1. Musi 1133, 1130L, 1143, 1140L 1253, 1263, 2133, 2130L 2143, 2140L, 2163 2263, 2283, 3203. ( 30h)
2. Hist 1103, 1113 or Hist 1413, 1423.(6 h)
3. 6h Engl at 1000 level (6h)
4. 30h music electives (30h)
5. First year music students will take Musi 1600. Students in each subsequent academic level will take one section of either Musi 2701 or 2800. Students must successfully complete both the fall and winter terms of each ensemble.

## **Faculty of Professional Studies**

### **School of Business Administration:**

(new course)

BUSI 3233 International Finance

This course develops ability to understand and analyze issues in financial management in an international context. Emphasis is on decision-making skills in international capital markets and the financial function in the multinational corporation. Prereq: BUSI 2233 with a C- or better.

(new course)

Busi 3763 Cross-Cultural Management.

This course introduces students to important frames of reference, theories and concepts to understand the behavioural and social implications of managing culturally diverse organizations.

Prereq: Busi 2733 Organizational Behaviour

(change in calendar description and prerequisite)

Busi 2213 Introductory Finance

An introduction to finance for non-business students, this course is designed for students with little or no accounting background. It will introduce the students to the basic financial statements, cash flows, ratio analysis, time value of money, budgeting, and sources for financing. Prereq: Busi 1703 with C- or better  
Note: This course is not recognized within the BBA program or any other program that requires Busi 3013. Credit may not be obtained for both Busi 2223 and Busi 2213 or equivalent.

becomes



Busi 2213 Introductory Finance

An introduction to finance for non-business students. The course introduces students to the basic financial statements, cash flows, ratio analysis, time value of money, budgeting, and sources for financing. Prereq: Busi 2053 or Busi 1013 with C- or better. Note: This course is not recognized within the BBA program or any other program that requires Busi 2223. Credit may not be obtained for both Busi 2223 and Busi 2213 or equivalent.

(change in calendar description and course title)

Busi 2223 Managerial Finance 1

A combination of lecture, case study, group interaction and field research to introduce students to the theory and practice of finance. The course will focus on the basic concepts and frameworks in finance. Topics covered will include: the goals and functions of financial management; financial analysis; financial forecasting; operating and financial leverage; working capital management; and the time value of money. (2h studio) Prereq: Econ 1013, 1023, and 2613, Math 1613 or 1013, each with C- or better and Busi 2013 as a corequisite.

becomes

Busi 2223 Fundamentals of Finance 1

A combination of lectures, problem-solving, case studies, group discussions, current events and field research are used to introduce students to the theory and practice of corporate finance. The course will focus on the basic concepts of securities markets, financial analysis, cost-benefit analysis and decision making under conditions of uncertainty. Prereq: Econ 1013, 1023, and 2613, Math 1613 or 1013, each with C- or better and Busi 2013 as a corequisite

(change in calendar description and course title)

Busi 2233 Managerial Finance 2

Lectures, case studies, group interaction and field research introduce students to the theory and practice of finance. The course focuses on basic financial concepts and frameworks. Topics include the time value of money; valuation and rates of return; cost of capital; capital budgeting; long-term financing; mergers and reorganizations; mergers; and international financial management. (2h studio) Prereq: Busi 2223 with C- or better.

becomes

Busi 2233 Fundamentals of Finance 2

A combination of lectures, problem-solving, case studies, group discussions, current events and field research are used to introduce students to the theory and practice of corporate finance. The course continues on from the Fundamentals of Finance 1 course to further explore financial decision-making under conditions of uncertainty and the risk-return trade-off in corporate finance. Prereq: Busi 2223 with C- or better.

(change in calendar description and course title)

Busi 3243 Cashflow Management

An in-depth look at the theory and practice related to cash flow management. Issues of bankruptcy and sources of financing are considered. Extensive use of cases. Prereq: Busi 2223 with C- or better

Becomes

Busi 3243 Intermediate Finance

Further coverage of the topics introduced in BUSI 2223, 2233 for students planning to major in Finance. Topics include working capital, capital budgeting, long and short term financing, dividend policy and valuation. This course prepares the student for upper level finance electives.

Prereq: Busi 2233 with C- or better, Busi 2033 (or as a co-requisite).

(change in prerequisite and course number)

Busi 3263 Derivative Securities and Risk Management

This course provides a comprehensive introduction to derivative securities such as futures, options, and swaps. Various trading strategies are discussed and applications to financial risk management are emphasized. Prereq: Busi 2233 with C- or better  
becomes

**Busi 4243 Derivative Securities and Risk Management**

This course provides a comprehensive introduction to derivative securities such as futures, options, and swaps. Various trading strategies are discussed and applications to financial risk management are emphasized. Prereq: Busi 3243 and Busi 3273

(change in prerequisite)

**Busi 3313 Human Resource Management**

The human problems of the management of all work situations, supervision by authority and motivation, communication and introduction of change, organization of work efforts, employee development, performance incentives, personnel policy, and management responsibilities. Prereq: Busi 2743, Econ 2613, each with a C- or better.

becomes

**Busi 3313 Human Resource Management**

The human problems of the management of all work situations, supervision by authority and motivation, communication and introduction of change, organization of work efforts, employee development, performance incentives, personnel policy, and management responsibilities. Prereq: Busi 2733 with a C- or better.

(change in calendar description, course title and prerequisite)

**Busi 3323 Managing Equity Legislation**

Equity legislation and its impact on today's manager/entrepreneur. Areas covered are employment and pay equity, human rights and occupational health and safety. The course is heavily case-oriented and will enable the student to examine compliance strategies. Prereq: Busi 2013, 2743, Comm 1213, Econ 1013 and 1023 each with C- or better

becomes

**Busi 3323 Employment Relations**

Employment relations refers to the nature, practice, and outcomes of relations between management and non-union employees under an individual employment contract. The course will consider: the nature of the non-union employment relationship; employee rights in the legislated and common law of Canada; ensuring fairness through employee voice, involvement, and communication; related issues such as discipline, dismissal, job security, and downsizing. Prereq: BUSI 3313 with a C- or better.

(change in course number)

**Busi 4213 Investment Analysis**

Financial assets and the markets in which they are traded. The analysis of common and preferred stock, bonds, warrants, and working knowledge of investing. Prereq: Busi 2233 with C- or better

becomes

**Busi 3273 Investment Analysis**

Financial assets and the markets in which they are traded. The analysis of common and preferred stock, bonds, warrants, and working knowledge of investing. Prereq: Busi 2233 with C- or better

(change in prerequisite)

**Busi 4223 Portfolio Management**

This course focuses on modern portfolio theory and the issues and mathematics involved in managing portfolios of securities. Theory is applied to the understanding of pension fund management in a simulation exercise. Throughout the course, students will have the opportunity to interact with outside experts. Prereq:

Busi 4213

becomes

**Busi 4223 Portfolio Management**

This course focuses on modern portfolio theory and the issues and mathematics involved in managing portfolios of securities. Theory is applied to the understanding of pension fund management in a simulation exercise. Throughout the course, students will have the opportunity to interact with outside experts. Prereq: Busi 3243 and Busi 3273

(change in calendar description, course title and prerequisite)

**Busi 4233 Financial Analysis**

Development of the skills necessary to assess the financial condition of a firm using financial statements to diagnose and recommend solutions to specific problems. Emphasis will be placed on the application of current financial analysis tools. Busi 2233 with C- or better becomes

**Busi 4233 Financial Analysis and Policy**

This course is a “capstone” course for students majoring in Finance. It is a case-based course. Through the analysis of finance cases, students will apply what they have learned in financial analysis, working capital management, capital budgeting, long term financing, and investments to real-life business situations.

Prereq: BUSI 3243

(change in prerequisite)

**Busi 4313 Labour Relations**

The structure, functions, attitudes, and philosophy of labour organizations in collective bargaining; consideration of the behaviour of the actors in the labour relations scene; and consideration of the basic stages of the labour relations process (organization, certification, negotiation, grievance, arbitration) from the viewpoint of labour, management, and the law. Prereq: Open to senior students or Busi 2013, 2743, Comm 1213, Econ 1013 and 1023 each with a C- or better becomes

**Busi 4313 Labour Relations**

The structure, functions, attitudes, and philosophy of labour organizations in collective bargaining; consideration of the behaviour of the actors in the labour relations scene; and consideration of the basic stages of the labour relations process (organization, certification, negotiation, grievance, arbitration) from the viewpoint of labour, management, and the law. Prereq: Busi 3313

(change in calendar description)

**Comm 1223 Communication 2**

A continuation of Comm 1213 although Comm 1213 is not a prerequisite to 1223. Instead of concentrating on grammar, the writing component focuses on the things that distinguish effective writing from poor writing: unity, concision, emphasis, and style. A series of writing assignments, some general and some career-oriented, help develop these qualities. Student write a formal report based on their own original research. They also give a presentation using basic visual aids and computer graphics.

becomes

**Comm 1223 Communication 2**

The course is designed to develop the skills necessary for effective oral communication. Basic communication concepts are introduced, stage-fright/anxiety management is addressed, and strategies for successful presentations and engaging public speeches are explored. A combination of written and oral presentation assignments will allow students to develop skills in writing for the spoken word. The emphasis is upon developing a clear and concise speaking style for both personal and professional purposes.

(course deletions)

**Busi 2253 Personal Financial Management**

**Busi 2753 Introductory Human Relations in Organizations**

(new program)

**Bachelor of Business Administration with Major in Employment Relations**

1. Required Business courses (45h): 1013, 1703, 2803, 2013, 2223, 2233, 2423, 2433, 2513, 2733, 2743, 3063, 3613, 4953, 4963, each completed with C- grade or better.

2. Required non-business courses (15h): Econ 1013, 1023, Math 1613 or Math 1013, Comm 1213, Econ 2613, each completed with a C- grade or better.
3. Additional required business course from the management discipline (9h): 3313 Human Resource Management , 3323 Managing Equity Legislation, 4313 Labour Relations
4. 15h business electives chosen from the following courses in management and related disciplines; 3483 Research Methods, 3623 Business Law 2, 3723 Organizational Change, 3733 Organizational Behaviour 2, 3753 Gender and Diversity in Organizations, 3763 Cross Cultural-Management (new course proposal), 4323 Seminar in Labour Relations, 4633 Ethics, Business and Society, 4933 / 4943 Projects in Business (or alternatives approved by the Business school).
5. 15 h of non-business electives chosen from among the following: ECON 3313 Labour Economics, ECON 3323 The Economics of Manpower and Employment, HIST 2403 Capital and Labour in Canada, PSYC 1013 Introductory Psychology: Experimental Area, PSYC 1023 Introductory Psychology: Application Area, PSYC 2123 Personality, SOCI 1006 Introductory Sociology, SOCI 2223 The Sociology of Work, SOCI 3253 Work, Family & Gender, SOCI 3543 Debates in Marxism, IDST 2253 Organized Labour in Canada, WGST 3023 Feminist Theory.
6. 15h non-business electives
7. 6h university electives (business or non-business). For those in the second-year Core program, Busi 2993 is required and university electives are reduced to 3h.  
(new program)  
Bachelor of Business Administration with Major in Finance
1. Required business courses (45h): 1013, 1703, 2803, 2013, 2223, 2233, 2423, 2433, 2513, 2733, 2743, 3063, 3613, 4953, 4963, each completed with C- grade or better.
2. Required non-business courses (15h): Econ 1013, 1023, Math 1613 or Math 1013, Comm 1213, Econ 2613, each completed with a C- grade or better.
3. Additional required business courses from the finance and related disciplines (12h): Busi 2033, 3073, 3243 and 3273 (formerly Busi 4213).
4. 12h business electives chosen from the following courses in the finance discipline: Busi 3213, 3233, 3253, 4223, 4233, 4243 (or equivalents approved by the Business school).
5. 6h non-business electives chosen from the following courses in the economics discipline: Econ 2113 (or 3913), 2623, 3133, 3143.
6. 24 h non-business electives
7. 6 h university electives (business or non-business). For those in the second-year Core program, Busi 2993 is required and university electives is reduced to 3h.
8. A minimum program GPA of 2.00 is required to be eligible to graduate.

#### **School of Education:**

(change in calendar description and course title)

Educ 40E3 – Social Studies: The Physical Environment

This course focuses on the teaching of physical geography. Emphasis is placed on the biosphere, especially on land and water use, and other linkages to human endeavours. Both local and global curricular issues are studied. Prereq: EDUC 4113 or EDUC 4243.

becomes

Educ 40E3 - Social Studies: Human Geography in the Secondary School Classroom

This course focuses on the teaching of human geography. Topics include population, cultural patterns and processes; political organization of space; agricultural and rural land use; industrialization and economic development; cities and urban land use. Prereq: Educ 4113 or Educ 4243

(change in prerequisite)

Educ 4793 Curriculum Issues in French as Second Language (FSL)

This course builds on the philosophical foundations of French as second language education developed in EDUC 4103. It offers an opportunity for students to examine carefully the specific curricula they will encounter as teachers in the secondary public school setting. Prereq: FRAN 4403 with minimum B- grade.

becomes

Educ 4793 Curriculum Issues in French as Second Language (FSL)

This course builds on the philosophical foundations of French as second language education developed in EDUC 4103. It offers an opportunity for students to examine carefully the specific curricula they will encounter as teachers in the secondary public school setting.

Prereq: FRAN 4403 or EDUC 4103 with minimum B- grade.

**School of Recreation Management and Kinesiology:**

(new course)

Recr 1183: Sustainability Concepts and Systems

This course introduces the current state of our world with respect to environmental and sustainability issues, including core sustainability and ecological concepts, theory and analytical tools. It will use experiential and problem-based learning to investigate current issues. Credit cannot be obtained for both Recr 1183 and Esst 1003. Co-req: RECR 1163.

(change in calendar description)

Recr 2113 History and Philosophy of Leisure

A historical overview of the philosophies, theories, and concepts of leisure, including classical and contemporary views of leisure, various perspectives on studying leisure, and ethics.

becomes

Recr 2113 History and Philosophy of Leisure

A historical and philosophical overview of the roots of leisure, the conditions in society that have affected leisure, and the societal and institutional responses to those conditions.

(change in course number and prerequisite)

Recr 2563 Ecotourism

An examination of ecotourism's impacts on host communities, natural resources, visitors, and community infrastructure as well as its influence on broader environmental, social/cultural, and economic sustainability processes. Illustrative case studies will be drawn from a broad range of Canadian and international examples (open to non- majors). Prereq: second year standing

becomes

Recr 3593 Ecotourism

An examination of ecotourism's impacts on host communities, natural resources, visitors, and community infrastructure as well as its influence on broader environmental, social/cultural, and economic sustainability processes. Illustrative case studies will be drawn from a broad range of Canadian and international examples (open to non- majors). Prereq: third year standing

(change in prerequisite)

Recr 4423: Recreation Resource & Environmental Management

The exploration of theory and issues in resource and environmental management with emphasis on outdoor recreation. The theoretical focus will be on policy decision making. Case studies will be drawn from the resource recreation, ecotourism, parks management, and land-use planning fields. Open to Recreation Management majors only

becomes

Recr 4423: Recreation Resource & Environmental Management

The exploration of theory and issues in resource and environmental management with emphasis on outdoor recreation. The theoretical focus will be on policy decision making. Case studies will be drawn from the resource recreation, ecotourism, parks management, and land-use planning fields. Prerequisite: third year standing

(program modification)

Bachelor of Recreation Management with Environment and Sustainability Studies:

- Leisure Studies core (45h). Can only take one of Recr 2523 or Esst 3003, Recr 1263 or Esst 2003 based on the advice of the school.
- Management Core (18h)
- Communication course: Comm 1213 (3h)

- Electives at the direction of the school (27h)
- Non-credit requirements: Recr 1210, 2020, 4010. Recr 1210 and 2020 must be completed during the first year of the program.
- Environment and Sustainability Studies Core Courses (12 h): Recr 1163, Esst 1003, Esst 1023, Esst 4003.
- Environment and Sustainability Studies Concentration Course (3 h) based on a choice of concentration area; Esst 2023, or Esst 2033, or Esst 2013, or Phil 2303.
- Environment and Sustainability Studies Concentration Courses based on a choice of concentration taken from concentration lists in the Environment and Sustainability Studies (12h)
- Students must successfully complete all Recr courses in the 1000, 2000, and 3000 levels to enter the core term or permission of the School.
- Grades of C- or better are required in the Leisure Studies Core, the Management Core and Comm 1213.
- A minimum program GPA of 2.00 is required to be eligible to graduate.

becomes

Bachelor of Recreation Management with Environment and Sustainability Studies:

- Leisure Studies core (45h). Can only take one of Recr 2523 or Esst 3003, Recr 1263 or Esst 2003 based on the advice of the school. RECR 1163 must be taken as part of the Leisure Studies core.
- Management Core (18h)
- Communication course: Comm 1213 (3h)
- Electives at the direction of the school (27h)
- Non-credit requirements: Recr 1210, 2020, 4010. Recr 1210 and 2020 must be completed during the first year of the program.
- Environment and Sustainability Studies Core Courses (12 h): Recr 1183 or Esst 1003, Recr 1263 or Esst 2003, Recr 2523 or Esst 3003, and Esst 4003. Credit cannot be obtained for both Esst 1003 and Recr 1183.
- Environment and Sustainability Studies Concentration Course (3 h) based on a choice of concentration area; Busi 2763, Esst 2013, Phil 2303 or Recr 2033.
- Environment and Sustainability Studies Concentration Courses based on a choice of concentration taken from concentration lists in the Environment and Sustainability Studies (12h)
- Students must successfully complete all Recr courses in the 1000, 2000, and 3000 levels to enter the core term or permission of the School.
- Grades of C- or better are required in the Leisure Studies Core, the Management Core and Comm 1213.
- A minimum program GPA of 2.00 is required to be eligible to graduate.

(change in calendar description, prerequisites and course number)

Kine 3493 Health Promotion and Wellness Practicum

This course will provide those students selected for the Health Promotion and Wellness specialization an opportunity to apply course material in a practical setting (in consultation with their advisor). Placements will be recognized government, educational, or social service agencies which are directly related to the field. Students will be expected to work in a number of situations on a weekly basis. Experiences will be recorded and discussed by the group. The practicum is supported by meetings, reading, and written papers. Prereq: KINE 2493 and permission of the instructor.

becomes

Kine 4293 Health Promotion and Wellness Practicum

This course will provide those students focusing on this area of study an opportunity to apply course material in a practical setting (in consultation with their advisor). Placements will be recognized government, educational, or social service agencies, but may also be self-directed experiences, which are

directly related to the field. Students will be expected to work in a number of situations on a weekly basis. Experiences will be recorded and discussed by the group. The practicum is supported by meetings, reading, and written papers. Prereq: Kine 3693 or permission of the instructor.

(change in prerequisite)

Kine 4333 Physiological Assessment

Field and laboratory techniques for exercise testing; performance testing of high performance athletes and fitness testing, interpretation and counselling are major topics. Particular emphasis on test protocols for endurance, strength, power, flexibility and anthropometry. The course features a blend of theory and practice. Students can apply this information to advanced fitness appraisal and prescription certifications. (3h lab) Prereq: KINE 3013 and permission of instructor.

becomes

Kine 4333 Physiological Assessment

Field and laboratory techniques for exercise testing; performance testing of high performance athletes and fitness testing, interpretation and counselling are major topics. Particular emphasis on test protocols for endurance, strength, power, flexibility and anthropometry. The course features a blend of theory and practice. Students can apply this information to advanced fitness appraisal and prescription certifications. (3h lab) Prereq: KINE 3013

(change in course number)

Kine 4493 Seminar in Health Promotion and Wellness

The course aims to increase the depth and breadth of students' knowledge of issues in health promotion and offers students the opportunity to expand and apply skills they have developed in the area of health promotion and wellness in practical settings. This will be done using a combination of readings and discussion, in class activities and practicum opportunities. Prereq: Kine 2493

becomes

Kine 3693 Seminar in Health Promotion and Wellness

The course aims to increase the depth and breadth of students' knowledge of issues in health promotion and offers students the opportunity to expand and apply skills they have developed in the area of health promotion and wellness in practical settings. This will be done using a combination of readings and discussion, in-class activities and practicum opportunities. Prereq: Kine 2493

## **Faculty of Pure and Applied Science**

### **Biology Department:**

(new course)

Biol 2563 Marine Biology

An introduction to the oceans of the world and marine organisms, their importance to humans and how they are impacted by society. The diversity and ecology of phytoplankton, zooplankton, invertebrates, fish, mammals, birds, and seaweeds are explored as they relate to ocean processes such as tides, currents, pollution, fisheries, aquaculture, and climate change. Local focus on the Bay of Fundy. Prerequisites: none. (deleted courses)

Biol 2123 Comparative Chordate Anatomy

Biol 2406 Field Biology

Biol 3233 Plant Physiology

Biol 3273 Mycology I

Biol 4473 Advanced Phycology

Biol 4483 Advanced Mycology

Biol 4853 Molecular Evolution and Bioinformatics

(change in prerequisite)

Biol 2073 Animal Biodiversity

An introduction to the diversity, evolution, structure, and function of vertebrates, invertebrates, and non-photosynthetic protista. The main objective of this course is to introduce students to major groups and

demonstrate the variety of relationships within, as well as between, these groups or organisms. (3h lab)  
Prereq: Biol 1113,1123 (can be taken concurrently with these with departmental permission)

becomes

#### Biol 2073 Animal Biodiversity

An introduction to the diversity, evolution, structure, and function of vertebrates, invertebrates, and non-photosynthetic protista. The main objective of this course is to introduce students to major groups and demonstrate the variety of relationships within, as well as between, these groups or organisms. (3h lab)  
Prereq: Biol 1113,1123 (or 1813, 1823 for Nutrition Majors ONLY) (can be taken concurrently with these with departmental permission)

(calendar description and course title)

#### Biol3413 Special Problems in Biology

Laboratory or field investigations into some particular problem in biology. The work must be sponsored by a member of the department. Students participate in planning the experiments and developing suitable procedures and techniques. Prereq: Permission of dept.

becomes

#### Biol3413 Research Topics

Laboratory or field investigations, or review of research topics in biology. Students participate in a research study which may include planning, developing suitable procedures and techniques, and/or undertaking a review or critical evaluation. Each student will write a research report and present findings. The research must be supervised by a member of the department. Prerequisites: Permission of supervisor and department.

(change in description and course number)

#### Biol 4463 Evolution

A critical analysis of concepts and analytical methods in evolutionary biology. Topics include basic population genetics, the analysis of adaptations, natural and sexual selection, species and speciation, systematics and phylogenetic methods. Recent developments in evolutionary biology (e.g. Darwinian medicine, evolution of infectious diseases) are discussed. (3h lab) Prereq: Biol 2023; 2033 recommended

becomes

#### Biol 3463 Evolution

A critical analysis of concepts and analytical methods in evolutionary biology. Topics include basic population genetics, the analysis of adaptations, natural and sexual selection, species and speciation, systematics and phylogenetic methods. Recent developments in evolutionary biology (e.g. Darwinian medicine, evolution of infectious diseases) are discussed. (~~3h lab~~) Prereq: Biol 2023; 2033 recommended (modification of a program)

Currently the Math requirements for the Biology Programs reads: Math 1013/1023 or 2233/2243 or 2213/2223 (6h) or Math 1013/1023 or Math 2233/2243 (6h) or Math 1013/1023 or 2233/2243 or 2213/2223 (6h)

This becomes:

Math 2233,2243 (6h) for the BSc Major in Biol., BScHonours and BSc Double Major.

#### Bachelor of Science with Major in Biology (120h)

The biology core and an additional 30h or 27h or 24h biology depending upon the Minor (18h of which are to be at the 3000-4000 level). Math 2233, 2243 (6h); 6h chemistry, all with a minimum grade of C-

#### Bachelor of Science with Honours in Biology (120h)

The biology core and Biol 4023 and 4996 (27h) and 21h additional biology (48h) 18h of which are to be at the 3000-4000 level completed with a minimum grade of B-; Math 2233, 2243 and 6h chemistry, completed with a minimum grade of C-. All students will take an oral comprehensive examination and defend a thesis during the fourth year of study.

#### Bachelor of Science with Double Major:

##### 1. Biology as first Major:

The biology core and 24h additional biology (18h of which are to be at the 3000-4000 level),



(42h); 6h chemistry; Math 2233, 2243 (6h)

2. Biology as second Major:

Biol 1113, 1123, 2013, 2073, 2043 or 2053 and 15h additional biology (12h of which are to be at the 3000-4000 level) (30h) 3. Biology with second Major in nutrition: Biology core; 18h additional biology (12h of which must be at the 3000-4000 level) (36h)

**Chemistry Department:**

(course title and prerequisite)

Chem 2103 Chemical Thermodynamics

Principles of chemical thermodynamics. Topics to be covered will include the first, second and third laws of thermodynamics and the applications of classical thermodynamics to chemical and phase equilibria and electrochemistry. (3h lab) Prereq: Chem 1123 or 1023 with C- or better, or with permission of the department, Math 2013 or 2753

becomes

Chem 2103 Physical Chemistry 1: Chemical Thermodynamics

Principles of chemical thermodynamics. Topics to be covered will include the first, second and third laws of thermodynamics and the applications of classical thermodynamics to chemical and phase equilibria and electrochemistry. (3h lab) Prereq: Chem 1123 or 1023 with C- or better, Math 2013 or 2753, Phys 1023, or permission of the department

(calendar description and course title)

Chem 2303 Structure and Bonding

A brief introduction to atomic structure and bonding leading to a discussion, with the use of group theory and molecular symmetry, of the various types of chemical bonds and related topics. (3h lab) Prereq: Chem 1123 or 1023 with C- or better; Coreq: Chem 2513

becomes

Chem 2303 Inorganic Chemistry 1 : Structure and Bonding

An introduction to atomic structure and bonding in inorganic compounds, with the use of group theory and molecular symmetry, a brief introduction to the coordination chemistry of the transition metals and related topics. (3h lab) Prereq: Chem 1123 or 1023 with C- or better

(change in course title)

Chem 3103 Chemical Dynamics

The principles governing chemical dynamics. Topics to be covered will normally include the kinetic molecular theory of gases, chemical kinetics, and electrochemistry. (3h lab) Prereq: Chem 2103 with C- or better, or permission of the department

becomes

Chem 3103 Physical Chemistry 2: Chemical Kinetics

The principles governing chemical dynamics. Topics to be covered will normally include the kinetic molecular theory of gases, chemical kinetics, and electrochemistry. (3h lab) Prereq: Chem 2103 with C- or better, or permission of the department

(calendar description, course title and prerequisite)

Chem 3113 Physical Chemistry 3

Principles of theoretical chemistry. The basic concepts of quantum mechanics are developed and applied to chemical bonding and molecular spectroscopy. The theory of point groups is used with quantum mechanical principles to provide a quantitative treatment of the energetics and geometry of chemical bonding through both the valence-bond and molecular orbital theories. (3h lab) Prereq: Chem 2103 with C- or better; Chem 3103, Math 2023 or permission of the department

becomes

Chem 3113 Physical Chemistry 3: Quantum Chemistry

Principles of theoretical chemistry. The fundamental concepts of quantum mechanics are developed and applied to chemical bonding and molecular spectroscopy. Basics of modern computational chemistry are introduced to study the geometry, energy and spectroscopy of molecules. (3h lab) Prereq: Chem 3103 with

C- or better, Math 2023 or Math 2723, or permission of the department  
(change in course title)

Chem 3303 Inorganic Chemistry 1

A survey of the main features of the main group elements and an introduction to transition metal chemistry.  
(3h lab) Prereq: Chem 2303

becomes

Chem 3303 Inorganic Chemistry 2: Main Group Chemistry

A survey of the main features of the main group elements and an introduction to transition metal chemistry.  
(3h lab) Prereq: Chem 2303

(change in prerequisite)

Chem 3523 Structure Determination

Investigation of molecular structure by modern spectroscopic methods. Special emphasis will be placed on mass spectrometry and nuclear magnetic resonance for structure elucidation. (3h lab) Prereq: Chem 2303 and 2533 each with C- or better.

becomes

Chem 3523 Structure Determination

Investigation of molecular structure by modern spectroscopic methods. Special emphasis will be placed on mass spectrometry and nuclear magnetic resonance for structure elucidation. (3h lab) Prereq: Chem 2533 with C- or better.

(calendar description, course title and prerequisite)

Chem 4313 Inorganic Chemistry 2

A survey of the chemistry of the transition metals, lanthanides and actinides, including organometallic chemistry and inorganic compounds of biological interest. (3h lab) Prereq: Chem 3303 and 3523

becomes

Chem 4313 Inorganic Chemistry 3: Transition Metal Chemistry

A survey of the chemistry of the transition metals, lanthanoids and actinoids, including organometallic chemistry and inorganic compounds of biological interest. (3h lab) Prereq: Chem 3303

### **School of Computer Science:**

(new course)

Comp 2923 Special Topics Prereq: Permission of school.

(new course)

Comp 3933 Special Topics Prereq: Permission of school.

(new course)

COMP 4443 Selected topics in Computer and Network Security This course will cover selected topics such as: authentication applications, data integrity and privacy, anonymity, security infrastructures and intrusion prevention, network attacks, and wireless Networks and Security Prereq: COMP 2523 and 4343, each with C- or better. Coreq or prereq of MATH 4333 or permission of the School.

(new course)

Comp 4553 Game Development The game development life cycle, game design and programming, graphics engines and game engines, game tools. Prereq: COMP 3553 and 3773, each with C- or better.

(change in prerequisite)

Comp 2903 Computers & Society

Topics include the technical, economic, legal, political, social, ethical, and professional issues related to the widespread use of computers. Prereq: 6h Comp with C- or better

becomes

Comp 2903 Computers & Society

Topics include the technical, economic, legal, political, social, ethical, and professional issues related to the widespread use of computers. Prereq: 3h Comp with C- or better

(program modification)

We are replacing a 4<sup>th</sup> year COMP course with a COMP elective.

We are giving students flexibility in their stats courses.

We are also strengthening the MATH elective requirement.

Bachelor of Computer Science with Honours

1. Comp 1113, 1123, 2103, 2113, 2203, 2213, 2663, 2903, 3403, 3343, 3413, 3613, 3703, 3713, 3753, ~~4223~~, 4996, and Math 1413 or 1313, and 2433, each with B- or better (~~60h~~) (57h)
2. ~~9h~~ 12h Comp at 3000/4000-level, with B- or better
3. Math 1013, 1023, ~~2213, 2223~~, (2213, 2223 or 2233, 2243), and 6h mathematics elective (~~not 2233 or 2243~~) at the 2000+ level, each with C- or better (18h)
4. 6h English or one language other than English
5. 9h of courses offered by the Faculty of Arts (not Econ 2613, 2623, or Soci 3103)
6. 12h from the Faculty of Pure and Applied Science (not mathematics or computer science) or from the School of Business Administration
7. 6h of elective courses.
8. A minimum CGPA of 3.0 is required to be eligible to graduate.

(new program)

Bachelor of Computer Science with Specialization (Security)

A new specialization stream called "Security" within our "Bachelor of Computer Science with Specialization" degree. The new stream will consist of 12 computer science and mathematics courses related to the security area.

**Security:** Comp 2513, 2523, 3413, 4343, 4443; Math (1323 or 1333), 2313, (3303 or 3513), 4333; 9h Comp/Math at the 3000+ level (36h).

**Department of Earth and Environmental Science:**

(course deletion)

GEOL 1070 Our Dynamic Earth Laboratory

(Change in prerequisite)

GEOL 2080 Field Methods

Held each spring locally and near Antigonish. Twelve days, focused on field work and processing of field data to familiarize students with techniques of geological mapping. Involves electronic and manual measurement of field data including use of GPS instruments and laptop computers and subsequent preparation of maps, sedimentary sections, and cross-sections in paper and digital form. Prereq: Geol 2033, Geol 2303.

becomes

Geol 2080 Field Methods

Held each spring locally and near Antigonish. Twelve days, focused on field work and processing of field data to familiarize students with techniques of geological mapping. Involves electronic and manual measurement of field data including use of GPS instruments and laptop computers and subsequent preparation of maps, sedimentary sections, and cross-sections in paper and digital form. Prereq: Geol 2043 or permission of the Department.

(change in calendar description)

ENVS 1013 Introduction to Environmental Science 1

This course will introduce students of environmental science to the interdisciplinary nature of the science and some of the skills necessary for success in the field. Topics covered will include the skill of information retrieval and assessment, communications, and critical analysis. In addition, the more substantive areas of environmental ethics, risk management and environmental policy will be studied. (3h lab) Prereq: Restricted to Envs majors.

becomes

**ENVS 1013 Introduction to Environmental Science 1**

This course introduces students to the interdisciplinary nature of environmental science and the skills necessary for success in the discipline. It integrates fundamental science concepts from a number of disciplines (e.g. earth science, chemistry, biology, atmospheric science) and examines current environmental issues (e.g. global warming, acidification, deforestation, contaminants) within a multidisciplinary scientific context. (3h Lab). Restricted to Envs majors.

(calendar description and prerequisite)

**ENVS 1023 Introduction to Environmental Science 2**

This course is a continuation of the introduction to environmental science presented in Envs 1013. Students will approach issues of current environmental concerns and develop interdisciplinary strategies for study and resolution. Students will be expected to build on their interdisciplinary coursework and the skills acquired in Envs 1013. (3h lab) Prereq: Envs 1013 with C- or better

becomes

**ENVS 1023 Introduction to Environmental Science 2**

This course is a continuation of the introduction to environmental science presented in ENVS 1013. Students approach issues of current environmental concern and develop interdisciplinary strategies for study and resolution. In addition, the overarching themes of environmental ethics, risk management and environmental policy are investigated. Prerequisite: Envs 1013 or permission of the instructor.

(calendar description and course number)

**ENVS 2643 Human Activity and the Environment**

An exploration and study of the relationships between humans and the environment. Topics covered will include the consumption of resources, the generation of wastes and changes *in the* conditions of land, water, air and other species. Prereq: second year university standing. Cannot be used for major credit by Envs majors

becomes

**ENVS 1643 Human Activity and the Environment**

A science-based exploration and study of the relationships between humans and the environment. Topics covered include the basics of ecosystems and natural resource management plus more detailed investigations of the impact of human practices such as consumption of resources, waste generation, and anthropogenic changes in the conditions of land, water, air and other species. Credit cannot be obtained for both Envs 1643 and Envs 1013.

(change in calendar description)

**ENVS 3313 The Environment and Human Health**

Course content will explore the interactions between human and environmental systems and their effects on human health. Students will identify and discuss the science involved in human and environmental systems through a case study analysis of selected examples. Topics may include climate change, pesticides, global health governance, ecosystem health, socioeconomic conditions and health, and alternative medicine practices (including traditional medicine and health promotion and prevention). Prereq: Biol 1123 or 1823

becomes

**ENVS 3313 The Environment and Human Health**

An exploration of the interactions between humans and the environment and the consequent effects on the health of each. Risk management is discussed in the context of public and environmental health as well as current regulatory initiatives. Topics include climate change, pesticides, water resources, global health governance, ecosystem health and socioeconomic conditions and health. Prereq: Biol 1123 or 1823

(change in calendar description and prerequisite)

**ENVS 3423 Environmental Impact Assessment**

An interdisciplinary approach to the principles, practices, and methods involved in environmental impact assessments. Impacts covered include socio-economic, soils and geology, ecology, air, water and climate, and noise. The legal and regulatory framework within which EIA's are conducted will also be included. (3h labs/field work) Prereq: Biol 2033, Chem 2813 or 2853, Envs 2643, Geol 2703, or permission of the department

becomes

ENVS 3423 Environmental Impact Assessment

An interdisciplinary approach to the principles, practices, and methods involved in environmental impact assessments. Impacts covered include socio-economic, soils and geology, ecology, air, water, climate, and noise. Prerequisite: 3<sup>rd</sup> year standing in Envs or permission of the instructor

(change in calendar description and prerequisite)

ENVS 3523 Field Course in Environmental Science

An examination of natural, urban, and industrial ecosystems based on integrative study from the biological, geological, management, social, and economic perspectives. Relationships among and between the physical environment, biota, and human populations will be illustrated and discussed. Sampling design and techniques, treatment of data, and interdisciplinary approaches to resource management will be incorporated in field work, labs, lecture-discussion, and projects. Prereq: permission of department.

Becomes

ENVS 3523 Field Course in Environmental Science

The course emphasizes field techniques in environmental science, data analysis, and communication skills. Interdisciplinary approaches to field work and environmental analysis are incorporated into all exercises and discussions. Specific skills include geological mapping, field sampling, quality assurance/quality control, water quality measurement, and development of final report for an environmental scenario. (10 day course at the end of the winter term) Prereq: Envs 3423 or permission of department.

(change in course number)

ENVS 3613: Contaminants in the Environment

This course will examine the historical release, fate, and risk assessment of chemicals in ecosystems. Lectures will cover: (i) the major classes of chemical contaminants; (ii) factors affecting contaminant fate in ecosystems (ii) methods of ecological risk assessment for contaminants (toxicity, persistence, bioaccumulation, and long range transport). Laboratory exercises will explore methods of assessing contaminant fate.

Prerequisites: Chem 2813 or 2853

becomes

ENVS 4613: Contaminants in the Environment – course description and prerequisites remain the same.

(Change in calendar description and prerequisites)

ENVS 4013 Environmental Science Project

Designed to encourage students to explore the interdisciplinary nature of environmental problems. Initial lectures will focus on an integrative approach to research in the environmental sciences. Students will then be encouraged to undertake project work from their major field of study, under the direction of a faculty member from that discipline, but concentrating on an environmental aspect of it. Cooperative work by several students working on the same problem but from different aspects will be encouraged. Final project papers will be presented in the project colloquium at term end. Prereq: permission of Assistant Dean

becomes

ENVS 4013 Environmental Science Project

An independent study course in which students conduct literature, laboratory or field investigations on some particular issue in Environmental Science. The work must be sponsored and supervised by a member of the department. Students participate in planning the experiments and developing suitable procedures and techniques. Prereq: Permission of dept.

(program modification)

This change is to accommodate the change in course number for Envs 2643

Environmental Geoscience Core:

The honours and Majors programs in environmental geoscience require the following core: 1013, 1023, 2043, 2080, 2133, 2213, 2703, 3103, 3303 or 3323, 3603, 3723, 3823, Envs 1643, 3113, 3423 (45h). No more than 3h non-lab geology courses at the 1000/2000-level may be offered towards the Major.

Bachelor of Science with Honours in Environmental Geoscience

1. The environmental geoscience core, Geol 4996 and 9h elective geology, each completed with a minimum grade of B- (57h).
2. Chem 1013, 1023 (6h)
3. 6h in Math
4. Phys 1053, 1063 or equiv. with lab (6h)
5. Biol 1113, 1123 (6h)
6. 6h from Chem, Math, Phys, Biol or Envs

Participation in departmental seminars is required. This program is career-oriented and preparatory to graduate study in environmental geoscience. It is needed for registration as a professional environmental geoscientist.

Bachelor of Science with Major in Environmental Geoscience

1. The environmental geoscience core, and 9h elective geology, each completed with a minimum grade of C- (51h).
2. Chem 1013, 1023 (6h)
3. 6h in Math
4. Phys 1053, 1063 or equiv. with lab (6h)
5. Biol 1113, 1123 (6h)
6. 6h from Chem, Math, Phys, Biol or Envs

This program is career-oriented and is needed for registration as a professional environmental geoscientist.

#### **Department of Mathematics and Statistics:**

(new course)

Math 1513 Truth in Numbers

The mathematical and statistical applications that appear in day-to-day media are discussed. Topics may include elections, fair division, climate change, environment, public health, epidemiology, finances, google searches, cryptography, and polls, and will be based on stories in the media. The course will teach numeracy skills to understand these topics. The course cannot be used to meet the Mathematical requirement for Math or other Science majors.

(new course)

Math 4773 Fluid Dynamics

Topics may include the Navier-Stokes equations, streamlines, circulation, vorticity, irrotational flow, potential flow, laminar flow, gravity waves, dimensional analysis, geophysical fluid dynamics, turbulence, hydrodynamic instability. Prereq/Coreq: Math 4753 or permission of instructor.

(course deletion)

Math 4733 Advanced mathematical Modelling

(change in prerequisite)

Math 1013 Introductory Calculus 1

Limits, tangent lines and derivatives. Applications of the derivative to rates, extrema and curve sketching. The definite integral and its application to determining area. (3h lecture, 1.5h studio) Prereq: 60% or better in each of NS Grade 11 and 12 Math and Precalculus (or equiv) OR 60% or better in Math 0120.

Satisfactory performance in diagnostic test is additionally required.

becomes

Math 1013 Introductory Calculus 1

Limits, tangent lines and derivatives. Applications of the derivative to rates, extrema and curve sketching. The definite integral and its application to determining area. (3h lecture, 1.5h studio) Prereq: 60% or better in NS Precalculus (or equiv) OR 60% or better in Math 0120. Satisfactory performance in diagnostic test is additionally required.

(change in calendar description and prerequisite)

Math 1213 Stats:Business/Behav Sci 1

Descriptive statistics, exploratory data analysis, correlation, least squares line, probability, random variables, normal distribution, sampling distributions, estimation and confidence intervals, elementary hypothesis testing, one-way analysis of variance using nonparametric and parametric tests. (3h lecture, 1.5h

studio) Prereq: NS Grade 11 and 12 Advanced Math (or equiv) OR Math 0120; OR NS Grade 11 and 12 Academic Math (or equiv) OR Math 0110

becomes

Math 1213 Stats:Business/Behav Sci 1

Descriptive statistics, exploratory data analysis, correlation, least squares line, probability, random variables, normal distribution, sampling distributions, estimation and confidence intervals, elementary hypothesis testing, one-way analysis of variance using nonparametric and parametric tests. (3h lecture, 1.5h studio) Prereq: NS Grade 11 Academic or Advanced Math OR Math 0110.

(change in prerequisite)

Math 1313 Foundations

Topics may include: Number systems. Complex numbers and De Moivre's theorem. Base arithmetic. Sets, set operations. Methods of proof, logic, truth tables, and quantifiers. Permutations and combinations. The binomial theorem. Relations and functions. One-to-one and onto mappings. Basic number theory. Equivalence relations. Congruences. Simple codes. Graph theory. Prereq: NS Grade 11 and 12 Advanced Math and Pre-calculus (or equiv); OR 60% or better in each of NS Grade 11 and 12 Academic Math (or equiv).

becomes

Math 1313 Foundations

Topics may include: Number systems. Complex numbers and De Moivre's theorem. Base arithmetic. Sets, set operations. Methods of proof, logic, truth tables, and quantifiers. Permutations and combinations. The binomial theorem. Relations and functions. One-to-one and onto mappings. Basic number theory. Equivalence relations. Congruences. Simple codes. Graph theory. Prereq: NS Grade 11 and 12 Academic or Advanced Math (or equiv); OR 60% or better in each of NS Grade 11 and 12 Academic Math (or equiv).

(change in calendar description and prerequisite)

Math 1323 Matrix Algebra

Systems of linear equations, matrices, determinants, vectors in two and three dimensions. Prereq: NS Grade 11 and 12 Advanced Math and Precalculus (or equiv) OR Math 0120; OR 60% or better in each of Grade 11 and 12 Academic Math (or equiv) OR 60% or better in Math 0110 .

becomes

Math 1323 Matrix Algebra

Systems of linear equations, matrices, vectors in two and three dimensions, row reduction and echelon forms, linear independence and span, linear transformations, matrix operations, Invertible Matrix Theorem, subspaces, determinants, Cramer's Rule, eigenvectors and eigenvalues; a computational approach, with applications. Prereq: NS Grade 11 and 12 Academic or Advanced Math (or equiv); OR Math 0120.

(change in calendar description and prerequisite)

Math 1333 Introduction to Linear Algebra

Matrices, vectors in two and three dimension, systems of linear equations, row reduction and echelon forms, elementary matrices, LU decomposition, linear independence and span, linear transformations, determinants and multilinear functions, vector spaces and subspaces, eigenvectors, the characteristic polynomial, applications. Prereq: 60% or better in each of NS Grade 11 and 12 Advanced Math and Pre-calculus (or equiv) OR 60% or better in Math 0120. Satisfactory performance in diagnostic test is additionally required.

becomes

Math 1333 Introduction to Linear Algebra

Systems of linear equations, matrices, vectors, row reduction and echelon forms, linear independence and span, linear transformations, matrix operations, Invertible Matrix Theorem, elementary matrices, LU Decomposition, subspaces, determinants and multilinear functions, Cramer's Rule, eigenvalues and eigenvectors, geometry of vector spaces, Singular Value Decomposition if time permits; a proof-based approach, with applications. Prereq: NS Grade 11 and 12 Academic or Advanced Math (or equiv); OR Math 0120.

(change in prerequisite)

Math 1613 General Lin Alg Calc for Busi & Econ

Linear equations and their graphs. Systems of linear equations and linear inequalities. Polynomials, exponential and logarithmic functions. Vector and matrix algebra. Derivatives and optimization. Applications to business and economics are integrated throughout the course. Emphasis is on understanding how problems are formulated mathematically and on interpretation of mathematically-expressed real-world problems. Prereq: NS Grade 11 and 12 Advanced Math (or equiv); OR Math 0120; OR NS Grade 11 and 12 Academic Math (or equiv) OR Math 0110. Satisfactory performance in diagnostic test additionally required.

becomes

Math 1613 General Lin Alg Calc for Busi & Econ

Linear equations and their graphs. Systems of linear equations and linear inequalities. Polynomials, exponential and logarithmic functions. Vector and matrix algebra. Derivatives and optimization. Applications to business and economics are integrated throughout the course. Emphasis is on understanding how problems are formulated mathematically and on interpretation of mathematically-expressed real-world problems. NS Grade 11 and 12 Academic or Advanced Math (or equiv) OR Math 0120. Satisfactory performance in diagnostic test may be additionally required.

(change in calendar description)

Math 2023 Differential Equations I

First order differential equations, second order differential equations with constant and variable coefficients, introduction to systems of differential equations and phase plane analysis, series solutions, boundary value problems. (3h lecture, 1.5h studio) Prereq: Math 1023.

Becomes

Math 2023 Differential Equations I

First order differential equations, second order differential equations with constant and variable coefficients, introduction to systems of differential equations and phase plane analysis, series solutions, boundary value problems, **Laplace transforms**. (3h lecture, 1.5h studio) Prereq: Math 1023.

(change in prerequisite)

Math 2233 Statistics for Life Sciences 1

Exploratory data analysis, probability, random variables, discrete and continuous distributions, sampling distributions, estimation confidence intervals, hypothesis testing. This course is restricted to students in biology, environmental science, computer science, nutrition, and psychology. (3h lecture, 1.5h studio) Prereq: NS Grade 11 and 12 Advanced Math OR Math 0120; NS Grade 11 and 12 Academic Math (or equiv) OR Math 0110 and second year standing or permission from Department Head

becomes

Math 2233 Statistics for Life Sciences 1

Exploratory data analysis, probability, random variables, discrete and continuous distributions, sampling distributions, estimation confidence intervals, hypothesis testing. This course is restricted to students in biology, environmental science, computer science, nutrition, and psychology. (3h lecture, 1.5h studio) Prereq: NS Grade 11 and 12 Academic or Advanced Math OR Math 0120. Students require second year standing or permission from the Department Head.

(change in calendar description)

Math 2313 – Linear Algebra 2

Vector spaces. Linear independence, basis and dimension. Change of basis. Inner product spaces, Linear transformations. Eigenvalues and eigenvectors. Diagonalization. Quadratic forms. Cayley-Hamilton Theorem Applications. Prereq: Math 1323 or 1333.

becomes

Math 2313 – Linear Algebra 2

Abstract vector spaces, subspaces including null space and column space, linear transformations, coordinate systems, dimension, rank, change of basis, eigenvalues and eigenvectors, characteristic



equation, diagonalization, inner product and orthogonality, orthogonal projections, Gram-Schmidt algorithm, inner product spaces, quadratic forms, Cayley-Hamilton Theorem, Prereq: 1323 or 1333.

(change in prerequisite)

Math 3303 Algebra 1

Modern mathematics with emphasis on the fundamental concepts and structures of algebra. Introduction to groups, rings and fields. Topics including homomorphisms, isomorphisms, quotient structures, finite fields.

Prereq: Math 2313 or 2433

becomes

Math 3303 Algebra 1

Modern mathematics with emphasis on the fundamental concepts and structures of algebra. Introduction to groups, rings and fields. Topics including homomorphisms, isomorphisms, quotient structures, finite fields.

Prereq: Math 2313.

(change in prerequisite)

Math 3513 Number Theory

The basic concepts and problems of number theory. Topics included are properties of integers, divisibility and primes; congruences, power residues and quadratic reciprocity; Diophantine equations. Prereq: Math 2313 or (2433 with B- or better) or permission of instructor.

becomes

Math 3513 Number Theory

The basic concepts and problems of number theory. Topics included are properties of integers, divisibility and primes; congruences, power residues and quadratic reciprocity; Diophantine equations. Prereq: Math 2313 or permission of instructor.

(change in prerequisite)

Math 3533 Real Analysis 1

Set theory, countability, the real number system, sequences, limits, series, functions, continuity, point set topology on the real line, the Riemann Integral, differentiation. Prereq: Math 2023 or 2753

becomes

Math 3533 Real Analysis 1

Set theory, countability, the real number system, sequences, limits, series, functions, continuity, point set topology on the real line, the Riemann Integral, differentiation. Prereq: Math 2013 or 2753.

(change in prerequisite)

Math 3543 Complex Variables

Complex numbers, analytic functions, elementary functions; contour integrals, Cauchy integral formula, maximum modulus theorem, series, residues and poles, conformal mapping; applications. Prereq: Math 2023 or 2753

becomes

Math 3543 Complex Variables

Complex numbers, analytic functions, elementary functions; contour integrals, Cauchy integral formula, maximum modulus theorem, series, residues and poles, conformal mapping; applications. Prereq: Math 2013 or 2753

(change in prerequisite)

Math 3573 History of Mathematics

A study of the history of mathematics from the seventeenth century onward, with particular emphasis being placed on the shift from classical methods to the more abstract modern setting. Topics covered may include: the vibrating string, Cauchy and the definition of limits, the origins of set theory, non-Euclidean geometry, the development of group theory from Lagrange to Klein and Lie. Prereq: Math 2023

becomes

Math 3573 History of Mathematics

A study of the history of mathematics from the seventeenth century onward, with particular emphasis being placed on the shift from classical methods to the more abstract modern setting. Topics covered may include: the vibrating string, Cauchy and the definition of limits, the origins of set theory, non-Euclidean

geometry, the development of group theory from Lagrange to Klein and Lie. Prereq: one of Math 2013 or 2753, and one of Math 2023 or 2723.

(change in prerequisite)

Math 3603 Operational Research 1:Programming and Networks

This course will provide an overview of the operational research modelling approach, and focuses on deterministic mathematical programming. Topics may include linear programming, transportation and assignment problems, network methods, integer programming, and nonlinear programming. Prereq: Math 2023, 2313

becomes

Math 3603 Operational Research 1:Programming and Networks

This course will provide an overview of the operational research modelling approach, and focuses on deterministic mathematical programming. Topics may include linear programming, transportation and assignment problems, network methods, integer programming, and nonlinear programming. Prereq: Math 2313 and either Math 2013 or Math 2753.

(change in calendar description)

Math 3713 Ordinary Differential Equations II

Topics include Laplace transforms and applications, systems of linear differential equations, Bessel and gamma functions, Sturm-Liouville problems, orthogonal functions, Fourier series. Prereq: Math 2023 or Math 2723

becomes

Math 3713 Ordinary Differential Equations II

Topics include systems of linear differential equations, Sturm-Liouville problems, orthogonal functions, Fourier series, dynamical systems, nonlinear systems. Prereq: Math 2023 or Math 2723

(change in calendar description and course title)

Math 4223 Applied Statistical Methods

The course offers a survey of advanced statistical methods including advanced modelling techniques, survival analysis, analysis of contingency tables and nonparametric methods. Computer based empirical evaluation methods are introduced. The use of SAS and other statistical software will be emphasized.

Prereq: Two of Math 3213, 3233, 3253, 3263, 3273, 3283, 3293

becomes

Math 4223 Generalized Linear Models

Review of least squares linear regression and maximum likelihood estimation. Generalized linear models, including binomial (logistic) regression, Poisson regression, contingency tables and log-linear models. Other topics in regression modelling such as survival analysis. Prereq: Two of Math 3213, 3233, 3253, 3263, 3273, 3283, 3293

(change in calendar description)

Math 4333 Cryptography

This course is an introduction to modern cryptographic techniques and their mathematical foundations. Review of elementary number theory and algebra; classical cryptosystems; encryption standards; public key cryptosystems; e-Business applications; digital signatures. Elliptic curve cryptography and quantum cryptography may be included. Prereq: Math 3303 or 3513.

becomes

Math 4333 Cryptography

This course is an introduction to modern cryptographic techniques and their mathematical foundations. Review of elementary number theory and algebra; classical cryptosystems; encryption standards; public key cryptosystems; digital signatures. Elliptic curve cryptography and quantum cryptography may be included. Prereq: Math 3303 or 3513.

(change in calendar description)

Math 4513 Introductory Topology

Axioms for topological spaces; closure, interior and boundary operators; separation axioms; relativization; bases and subbases; mappings and continuity; compactness, connectedness, product spaces, metric spaces; completeness, nets and filters. Prereq: Math 3533

becomes

Math 4513 Introductory Topology

Topological spaces; closure, interior, and boundary; bases; mappings and continuity; compactness and covering; connectedness; product spaces; metric spaces; completeness; applications. Prereq: Math 3533 (change in calendar description)

Math 4553 Real Analysis 2

Elements of point set topology in  $\mathbf{R}^2$  and metric spaces. Sequences of functions, uniform convergence. Derivatives. Multivariate and vector differential calculus. Multiple Riemann integrals. Jordan Content. Prereq: Math 3533

becomes

Math 4553 Real Analysis 2

A continuation of 3533. Topics include integration, infinite series and power series, convergence in  $\mathbf{R}^n$ , topology in  $\mathbf{R}^n$ , continuity and differentiability for multivariate functions, implicit and inverse function theorems, extra topics such as Fourier series if time permits. Prereq: Math 3533

(change in prerequisite)

Math 4753 Partial Differential Equations

Topics may include linear second order partial differential equations (parabolic, elliptic, and hyperbolic), separation of variables, eigenfunction expansion, Fourier series, method of characteristics, non-linear waves. Prereq: Math 3713

becomes

Math 4753 Partial Differential Equations

Topics may include linear second order partial differential equations (parabolic, elliptic, and hyperbolic), separation of variables, eigenfunction expansion, Fourier series, method of characteristics, non-linear waves. Prereq: Math 3713 and either Math 2013 or 2753.

(change to a program)

Bachelor of Science in Mathematics and Statistics with Business

1. Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 3603, 3633, two of 3233, 3253, 3263, 3273, 3283, or 3293, and at least 3h additional Math at the 3000/4000-level approved by the department. (42h)

2. Busi 1013, 1703, 2013, 2733, 2223, 2233, 2423, 2433, 2513, 3063, 3313 and 9h at the 3000/4000-level (42h)

3. One of Comp 1113 or Apsc 1413 (3h)

4. Econ 1013 and 1023 (6h)

becomes

Bachelor of Science in Mathematics and Statistics with Business

1. Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 3603, 3633, two of 3233, 3253, 3263, 3273, 3283, or 3293, and at least 3h additional Math at the 3000/4000-level approved by the department. (42h)

2. Busi 1013, 1703, 2013, 2733, 2223, 2233, 2423, 2433, 2513, 3063, **3613** and 9h at the 3000/4000-level (42h)

3. One of Comp 1113 or Apsc 1413 (3h)

4. Econ 1013 and 1023 (6h)

(program added to the academic calendar)

Mathematics and Statistics core (33h):

Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 3533 (30h);

Either COMP 1113 or APSC 1413.

Bachelor of Arts with Major in Mathematics and Statistics

1. The Mathematics and Statistics Core (33h);

2. 3h Math above 1000 level;

3. 12h Math at the 3000/4000 level as approved by the department;

4. All prerequisites in the descriptions of 3000/4000 level courses must be completed with at least C-  
Bachelor of Arts with Honours in Mathematics and Statistics
  1. The Mathematics and Statistics Core (33h);
  2. At least one of Math 3213, 3303 (3h);
  3. Math 4996 and 15 additional hours at 3000/4000 level (of which 6h must be at the 4000 level), or Math 4913 and 18 additional hours at 3000/4000 level (of which 6h must be at the 4000 level). All courses presented must have a minimum grade of B-. The 4000 level courses are to be approved by the department. (21h);
4. All prerequisites in the descriptions of 3000/4000 level courses must be completed with at least C-  
Bachelor of Arts with Double Major
  - Mathematics & Statistics as first major: the mathematics and statistics core requirement (except Math 3533); 15h additional at the 3000/4000-level approved by the department (45h);
  - Mathematics & Statistics as second major: Math 1013, 1023, 1323 or 1333, 2013/2023 or 2723/2753, 2213, 2223, 2313; 12h additional at 3000 level or above (36h). The choice of 2013/2023 or 2723/2753, and the choices of 3000/4000 level courses must be approved by both departments.

**School of Nutrition:**

(change to a program)

Change in Biology core courses necessitated changes to the Bachelor of Science in Nutrition with Biology program.

Bachelor of Science in Nutrition with Biology

1. The nutrition core (27h)
  2. Biol 1113, 1123 or 1813, 1823, 2013, ~~2023, 2033~~, 2043 or 2053, 2073, ~~2813, 2823~~, 6- 15h additional Biol, (12h of which must be at the 3000/4000 level) completed with a C- or higher (30h)
  3. Chem 1013, 1023, 2513, 2713 (12h)
  4. Math 2233, 2243 (6h)
  5. Psys 1013, 1023 (6h)
  6. Nutr 3543, 4223, 4523, 6h Nutr electives (15h)
  7. English or one language other than English (6h)
  8. 6h from the Faculty of Arts (6h)
  9. 12h university electives (12h)
- (change to a program)

Students in the Bachelor of Science in Nutrition degree take either Math 1213/1223 **or** Math 2233/2243 so this change will bring the math courses in line with the requirements for the straight degree  
Bachelor of Science in Nutrition (Kinesiology option)

1. The nutrition core (27h)
2. Kine 2033, 2493, 3013, 3343 and 12h Kine electives (other than Kine 2413, 2423) (24h)
3. Biol 1813; Biol 2813, 2823 or Kine 2413, 2423; 3h Biol elective (12h)
4. Chem 1013, 1023, 2513, 2713 (12h)
5. Math 1213, 1223 **or** 2233, 2243 (6h)
6. Psys 1013, 1023 (6h)
7. Nutr 3543, 4523, 9h Nutr electives (15h)
8. English or one language other than English (6h)
9. 12h university electives

Clarification of the Bachelor of Science in Nutrition (Dietetics option) for the calendar:

Bachelor of Science in Nutrition (Dietetics option)

1. The nutrition core (27h)
2. Biol 1813, 2053, 2813, 2823 (12h)
3. Chem 1013, 1023, 2513, 2713 (12h)
4. Math 1213, 1223 or 2233, 2243 (6h)
5. Nutr 3513, 3543, 4013, 4023, 4223, 4523, 4553, 4743, 3h Nutr elective (27h)

6. Psyc 1013,1023 (6h)
7. English or one language other than English (6h)
8. 6h from the Faculty of Arts (6h)
9. 18h university electives (18h)

Students completing this option will meet the eligibility requirements for application to accredited Dietitians of Canada internships.

**Physics Department:**

(change in title and course description to include anti-requisite)

Physics 1513 Astronomy I

The Solar System

This course is the first part of a general introduction to astronomy. It emphasizes the night sky and objects in our solar system. The instructor discusses space science, telescopes, cameras and other instruments used in the study of astronomy. Observation sessions are included.

becomes

Physics 1513 Astronomy I

Observational Methods and Solar System

This course is the first part of a general introduction to astronomy. It emphasizes the night sky and objects in our solar system. The instructor discusses space science, telescopes, cameras and other instruments used in the study of astronomy. Observation sessions are included. Credit may not be obtained for both Phys 1513 and IDST 1703

(change in calendar description to include anti-requisite)

Physics 1523 Astronomy 2

Stars, Galaxies and the Universe

This course is the continuation of Astronomy 1. Starting with the study of the sun, our nearest star, the course ventures into the realm of exploding stars, pulsars, black holes and other exotic phenomena in the universe. Other topics include star formation, nuclear fusion, nucleosynthesis and stellar evolution.

Observation session will be held as weather permits.

becomes

Physics 1523 Astronomy 2

Stars, Galaxies and the Universe

This course is the continuation of Astronomy 1. Starting with the study of the sun, our nearest star, the course ventures into the realm of exploding stars, pulsars, black holes and other exotic phenomena in the universe. Other topics include star formation, nuclear fusion, nucleosynthesis and stellar evolution.

Observation session will be held as weather permits. Prereq: Phys 1513 Anti-requisite: IDST1703

**Psychology Department:**

(change to a program)

Psychology core (27h):

1. Psyc 1013, 1023, 2013, 2023
2. Math 1213/1223 or Math 2233/2243
3. 3h from Psyc 2113 or 2123
4. 3h from Psyc 2133, 2143
5. 3h from Psyc 2103 or 2153

becomes

Psychology core (27h):

1. Psyc 1013, 1023, 2013, 2023
2. Math 1213,1223 or Math 2233,2243
3. 3h from Psyc 2113 or 2123
4. 3h from Psyc 2133, 2143 or 2173
5. 3h from Psyc 2103 or 2153

(program change)

Bachelor of Arts with Honours in Psychology

1. Psychology core (27h)
  2. Psyc 3023, 3243, 4183, 4996 (15h)
  3. A 3000-level psychology course with a laboratory component (e.g., 3053, 3083, 3353, or 3363) or Biol 3063 (3h)
  4. 9h additional Psyc; 3h of which must be at 3000 or 4000 level
- B- or better is required in all courses offered to fulfil these requirements

becomes

Bachelor of Arts with Honours in Psychology

1. Psychology core (27h)
2. Psyc 3023, 3243, 4183, 4996 (15h)
3. A 3000-level psychology course with a laboratory component (e.g., 3053, 3083, 3353, or 3363) or Biol 3063 (3h)
4. 9h additional Psyc; 3h of which must be at 3000 or 4000 level
5. B- or better is required in all courses offered to fulfil these requirements

(Program change)

Bachelor of Science with Honours in Psychology

1. Psychology core (27h)
  2. Psyc 3023, 3243, 4183, 4996 (15h)
  3. A 3000-level psychology course with a laboratory component (e.g., 3053, 3083, 3353, or 3363) or Biol 3063 (3h)
  4. 9h additional Psyc; 3h of which must be at 3000 or 4000 level
- B- or better is required in all courses offered to fulfil these requirements

becomes

Bachelor of Science with Honours in Psychology

- Psychology core (27h)
1. Psyc 3023, 3243, 4183, 4996 (15h)
  2. A 3000-level psychology course with a laboratory component (e.g., 3053, 3083, 3353, or 3363) or Biol 3063 (3h)
  3. 9h additional Psyc; 3h of which must be at 3000 or 4000 level
  4. B- or better is required in all courses offered to fulfil these requirements

Motion Regarding the Recording of Minors on Student Transcripts

Given that students are required to do coursework in Minor subject areas for the completion of many degrees at Acadia University, Senate resolves to acknowledge more fully their academic concentrations and achievements by having Minors recorded on Academic Transcripts.

The Senate Committee on Graduate Studies unanimously recommends the following appointments to the Research Ethics Board:

- a. That Dr. Diane Holmberg, Department of Psychology, replace Dr. Susan Potter during her sabbatical leave (2010-1011)
- b. That Dr. David Duke, Department of History and Classics, be appointed for an additional three-year term (2010/11 – 2012/13).

Respectfully submitted,

David MacKinnon

Acting Dean

Research and Graduate Studies