

The following proposals, received on DAP between May 16-31, 2010, have now been approved.
For more information on the DAP process see the Academic Handbook at <http://www.uwo.ca/univsec/handbook>

FACULTY OF ARTS AND HUMANITIES

MODERN LANGUAGES AND LITERATURES

Effective **September 1, 2010**, the Hindi 2200 - Intermediate Hindi is introduced in the Department of Modern Languages and Literatures on Main Campus:

Hindi 2200: Intermediate Hindi

Comprehensive grammar review, systematic oral and written practice with discussion of contemporary texts.
Prerequisite(s): Hindi 1030 or Grade 12U Hindi or the former OAC Hindi or permission of the Department.
4 hours, 1.0 course.

Effective **September 1, 2010**, Korean 3300 – Advanced Korean be introduced in the Department of Modern Languages and Literatures on Main Campus:

Korean 3300: Advanced Korean

Comprehensive grammar review, systematic oral and written practice with discussion of contemporary texts.
Prerequisite(s): Korean 2200 or permission of the Department.
4 hours, 1.0 course.

Effective **September 1, 2010**, Comparative Literature and Culture 3395F/G-3397F/G - Special Topics in Sexuality Across Cultures be introduced in the Department of Modern Languages and Literatures on Main Campus:

Comparative Literature and Culture 3395F/G-3397F/G - Special Topics in Sexuality Across Cultures.

These courses will engage various expressions of human sexuality in different cultural contexts with respect to such artistic production as literary texts, works of visual art, music and other media.
Prerequisite(s): CLC 1020 or CLC 1023, Women's Studies 1020E or permission of the Department.
3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Comparative Literature and Culture 2241F/G – Myths of Desire be introduced in the Department of Modern Languages and Literatures on Main Campus:

Comparative Literature and Culture 2241F/G: Myths of Desire

A study of the philosophical, theological and poetic extensions of several great myths of desire, such as Semele, Narcissus, Flora, Mars and Venus, Orpheus, Cupid and Psyche and Ganymede. Each myth will be studied in several versions (e.g., classical, medieval, Renaissance and modern), along with theories of myth and theories of desire.
Prerequisite(s): CLC 1020, CLC 1023, Classical Studies 1000 or permission of the Department.
3 hours, 0.5 course.

Effective **September 1, 2010**, Comparative Literature and Culture 3336F/G – The Gay Literary Tradition be introduced in the Department of Modern Languages and Literatures on Main Campus.

Comparative Literature and Culture 3336F/G – The Gay Literary Tradition

This course traces the tradition of gay literature from antiquity to the present day, focusing on the value of “gay” as a literary label, the shifting mythologies of gay identity, and the censoring impact of homophobia. Genres to be studied include pastoral love-lyric, elegy, allegory, verse drama, and coming-out fiction.
Prerequisite(s): CLC 1020, CLC 1023, Women's Studies 1020E or permission of the Department.
3 hours, 0.5 course.

WRITING, RHETORIC, AND PROFESSIONAL COMMUNICATION

Effective **March 1, 2010**, antirequisites for Writing 1000F/G, offered in the Faculty of Arts and Humanities, be added to read as shown below:

1000F/G: The Writers' Studio

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Antirequisite(s): Any Writing course or half course at the 1000, 2100 or 2200 level.

Effective **September 1, 2010**, Writing 2217F/G, entitled "Concept to Product: Publishing," be introduced in the Faculty of Arts and Humanities. If approved, the new course should be added to the list of courses in Writing:

2217F/G: Concept to Product: Publishing

This is a workshop course in which students work in teams to develop a consumer magazine. It is of particular interest to students considering a career in print/digital publishing as the roles of managing editor, copy editor, creative/art director, photo design editor, and freelance writer are part of the classroom experience.

Antirequisite(s): Writing 2294F/G (2009-2010; 2008-2009), Writing 294F/G (2007-2008)

Prerequisite(s): At least 65% in one of Writing 2101F/G, Writing 2121F/G, Writing 2111F/G, or Writing 2131F/G; or at least 85% in Writing 1000F/G; or permission of the program.

3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Writing 2218F/G, entitled "To Make a Long Story Short: Introduction to Short Fiction," be introduced in the Faculty of Arts and Humanities. If approved, the new course should be added to the list of courses in Writing:

2218F/G: To Make a Long Story Short: Introduction to Writing Short Fiction

In this course students will develop not only fiction writing ability, but also critical reading skills. The short story will be the focus of the course. Students will produce their own short fictions based on professional models, instructor guidance, and class discussion.

Antirequisite(s): Writing 2295F (2009 – 2010; 2008 – 2009); Writing 295F (2007 – 2008)

Prerequisite(s): At least 65% in one of Writing 2101F/G, Writing 2121F/G, Writing 2111F/G, or Writing 2131F/G; or at least 85% in Writing 1000F/G; or permission of the Program.

3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Writing 2219F/G, entitled "Word Travels: Introduction to Travel Writing," be introduced in the Faculty of Arts and Humanities. If approved, the new course should be added to the list of courses in Writing:

Writing 2219F/G: Word Travels: Introduction to Travel Writing

Great travel writing is a balance of colourful description, practical advice and history. Students will learn a variety of article styles including personal essay, guidebook writing and destination pieces for a variety of publications. Relevant issues will also be discussed including the evolution of the genre and ethical issues.

Antirequisite(s): Writing 2296F (2008-2009, 2009 - 2010); Writing 296F (2007-2008).

Prerequisite(s): At least 65% in one of Writing 2101F/G, Writing 2121F/G, Writing 2111F/G, or Writing 2131F/G; or at least 85% in Writing 1000F/G; or permission of the Program.

3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Writing 2220F/G, entitled "Renewing Your Poetic License: Introduction to Writing Poetry," be introduced in the Faculty of Arts and Humanities. If approved, the new course should be added to the list of courses in Writing:

Writing 2220F/G: Renewing Your Poetic License: Introduction to Writing Poetry

This writing workshop examines a variety of techniques for writing contemporary poetry. Students are introduced to modern and contemporary poets from diverse backgrounds. Assignments, readings, in-class writing, and discussions focus on the fundamental elements of poetry such as image, metaphor, point of view, voice, typography, sound, meter, rhythm, and form.

Antirequisite(s): Writing 2292F (2009 -2010)

Prerequisite(s): At least 65% in one of Writing 2101F/G, Writing 2121F/G, Writing 2111F/G, or Writing 2131F/G; or at least 85% in Writing 1000F/G; or permission of the Program.

3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Writing 2221F/G, entitled "Self and the Rhetorical Triangle: an Introduction to Interpersonal Communication" be introduced in the Faculty of Arts and Humanities. If approved, the new course should be added to the list of courses in Writing:

Writing 2221F/G: Self and the Rhetorical Triangle: an Introduction to Interpersonal Communication

Humans spend three-quarters of their lives communicating. Effective communication, a skill which can be acquired, is developed through small group exercises, projects, and presentations. Oral and written communicating by way of the Rhetorical Triangle is not only about exercising critical judgment but also about developing respectful listening skills.

Antirequisite(s): Writing 2291F (2008-2009)

Prerequisite(s): At least 65% in one of Writing 2101F/G, Writing 2121F/G, Writing 2111F/G, or Writing 2131F/G; or at least 85% in Writing 1000F/G; or permission of the program.

3 lecture hours, 0.5 course.

RICHARD IVEY SCHOOL OF BUSINESS

BUSINESS

Effective **September 1, 2010**, the following courses be added to the HBA2 Curriculum:

Business 4530A/B: Competition and Competitor Analysis

For students considering a career in general management, consulting or marketing. Many principles discussed in class will also be useful to entrepreneurs. May also be of interest to students seeking knowledge of concepts and development of skills that enable them to understand and respond to the competitive environment.

0.5 course.

Business 4538A/B: Women in Leadership

This course is for students who want to promote the movement of women into leadership positions in Canadian business organizations. Through case studies, debates, and conversations with senior women leaders, we will investigate the factors enhancing women's career opportunities and identify the skills that it takes for women to build successful careers.

0.5 course.

Business 4539A/B: Business Strategy and Sustainability

This course is for students interested in understanding the interface between business and sustainability. Sustainability is defined as the maintenance of ecological, social and economic systems. This course will introduce students to the relationship between sustainability and business strategy, focusing on the fundamental strategic motivations of business can represent both a force for and against the integrity of these systems.

0.5 course.

Business 4532Q/R/S/T: Regulation and Management of Financial Institutions

This course is designed as an introduction to the topic for students intending to pursue careers in financial services especially banking, investment banking, securities and investment management. It would also be an introduction to financial regulation for those interested in a career as a regulator, as this is a growing field.

0.25 course.

Business 4533A/B: Cross Enterprise Leadership

This course introduces the students to the Cross-Enterprise Leadership perspective; and this perspective is essential for success. The course is consistent with the Ivey view of Cross-Enterprise Leadership: an action-oriented approach that prepares students to look beyond the walls, organizational charts and silos and approach business issues from a perspective that spans the entire organization.

0.5 course.

Business 4534Q/R/S/T: Internet Marketing

This course is aimed at students who aspire to work in marketing, advertising or an Internet-focused business. This is an introductory course, which assumes no prior knowledge of online marketing or related technologies.

0.25 course.

Business 4531A/B: Operations Analytics

Prosperous programs deliver on time and to budget which over time create growth within an organization. Analytical techniques, including modeling and statistical analysis, are tools utilized by managers to make educated decision and create solutions to complex problems. The purpose of is to educate individuals on these analytical techniques to assist in future management of business ventures.

0.5 course.

Business 4535A/B: Integrating and Implementing Marketing Decisions

The focus of this course is integrating a wide range of marketing tools and analyses to drive good business decisions. This elective is a combination of integrated marketing cases, and the renowned SABRE marketing simulation. Each week will normally include one case-class, and 2-3 rounds of on-line simulation.

0.5 course.

Business 4529Q/R/S/T: Social Enterprise

This course provides a comprehensive introduction to social enterprise in developed and developing countries. The course focuses on the unique entrepreneurial processes associated with the creation or discovery of positive social change. It explores the different mechanisms of value creation in organizations that combine doing good and doing well.

0.25 course.

Business 4536A/B: Corporate Governance

This course is for the HBA student that wishes to develop a greater understanding of what drives the existence and strategies of organizations and in particular corporations. Additionally, this course is aimed at the student that may one day serve on the board of a charity, nongovernmental organization or corporation.

0.5 course.

Business 4537A/B: Making Decisions to Implement Strategy

This elective is geared towards those students who want to deepen their understanding and mastery of business strategy. This class uses the case method to explore different decision-making methodologies that managers can use to effectively execute strategies. Strategy implementation or execution will be examined from various managerial levels within the same organization.

0.5 course.

FACULTY OF EDUCATION**EDUCATION**

Effective **January 1, 2010**, a new elective, *Teaching in Rural and Remote Schools and Communities 5435Q/S*, be introduced by the Faculty of Education:

Education 5435Q/S: Teaching in Rural and Remote Schools and Communities

An introduction to historical, social, and political issues facing educators in rural and/or remote locations including Aboriginal schools and communities. The teacher's role in such communities, the challenges and opportunities of teaching in them, and pedagogical strategies and resources for rural and remote locations are examined.

Two hours per week, 0.25 credit Offered first or second term.

FACULTY OF HEALTH SCIENCES**HEALTH SCIENCES**

*Effective **September 1, 2010**, Health Sciences 2000A/B (Critical Issues and Debates in the Health Sciences) be introduced in the Faculty of Health Sciences' School of Health Studies:*

Health Sciences 2000A/B: Critical Issues and Debates in the Health Sciences

Developments and greater integration between disparate fields of interest in the Health Sciences in the 21st century are examined in this survey course. Topics include: Social epidemiological approaches to health, issues of aging and senescence, environmental impacts on human health, pediatrics, social epidemiology, and philosophical perspectives on health.

2 hours, 0.5 course.

Note: With the exception of those completing a minor in Health Sciences, Health Studies students cannot use this course for modular credit.

*Effective **September 1, 2010**, Health Sciences 4800Z (Methods in Evidence Based Practice) be revised to be offered as an F/G course:*

Health Sciences 4800F/G: Methods in Evidence-Based Practice

Students will learn to apply previously learned statistical and methodological information in the systematic evaluation of published research. Topics covered will include the systematic appraisal of experimental, quasi-experimental, and qualitative research projects.

Prerequisite(s): Health Sciences 3801A/B or the former 3800F/G.

2 lecture hours, 0.5 course.

KINESIOLOGY

*Effective **September 1, 2010**, the prerequisite of Kinesiology 2276F/G be removed for Kinesiology 3474A/B:*

Kinesiology 3474A/B: Psychological Interventions in Exercise, Sport and Injury Rehabilitation

This course is designed to increase the student's understanding of the psychological interventions that can be employed to increase participation and performance in various physical activity settings.

Antirequisite(s): Kinesiology 3371B (001) 2008-09 and 2009-10.

3 lecture hours, 0.5 course.

*Effective **September 1, 2010**, the prerequisite of One level II activity course or equivalent, or permission of Kinesiology be removed for Kinesiology 4409A/B:*

Kinesiology 4409A/B: Strategy and Tactics in Sport

Sport strategy and tactics are examined from the point of view of "control", focusing upon the notions of controlling time, space, uncertainty, one's adversary and one's self. An effort is made to explain the scientific bases for various tactics (when appropriate) and to show communality of tactics utilized among different sports.

3 lecture hours, 0.5 course

*Effective **September 1, 2010**, the prerequisite of Kinesiology 3356A/B or the former Kinesiology 441a/b be removed for Kinesiology 4456A/B:*

Kinesiology 4456A/B: Cognitive Ergonomics

Cognitive ergonomics is concerned with mental processes, such as perception, memory, reasoning, and motor response, as they affect interactions among humans and other elements of a system. Relevant topics include mental workload, skilled performance, human error, work stress, risk perception, and Kansei engineering as these may relate to human-system design.

3 hours, 0.5 course

Effective **September 1, 2010**, the pre-requisites of Kinesiology 3356A/B or 3410A/B or 3371A/B, section 002 (2008-09) or the former 371a, section 002 (2007-08) be removed for Kinesiology 4457A/B:

Kinesiology 4457A/B: Ergonomics and Aging

Melding together concepts from Cognitive Ergonomics and Aging, the course focuses on how to prolong independent living in older adults by improving function, safety, and quality of life.
3 hours per week, 0.5 course.

KINESIOLOGY - BUSINESS

Effective **September 1, 2010**, the following changes be made to the Honors Specialization in Kinesiology – Sport Management and Ivey School of Business (HBA) Module:

HONORS SPECIALIZATION IN KINESIOLOGY – SPORT MANAGEMENT AND IVEY SCHOOL OF BUSINESS (HBA) MODULE

Program

Year One

Kinesiology 1080A/B, 1088A/B.

Physiology 1021.

3.0 courses numbered 1000 - 1999 from the Faculties of Arts and Humanities, Science or other Faculty. (Note: Business Administration 1220 is recommended).

Year Two

3.5 Kinesiology courses to be selected as follows:

1.0 course Kinesiology Q/R/S/T, A/B* activity course or equivalent must be selected in second year.

*Notes:

1. Students should refer to the Web Calendar, current timetable and School of Kinesiology web page for a comprehensive list of Kinesiology activity designated courses.
2. By April 30th of second year students must submit i) current certification in first aid and C.P.R. and ii) students must complete an Aquatic requirement with the following options: selecting Canoe [Kin 2203Q] or Sail Kin 2211Q], Swim [Kin 2215 Q/R/S/T], Learn to Swim [Kin 2020 Q/R/S/T] or pass a swim test through Campus Recreation or provide proof of completion of level 6 Red Cross or equivalent in swimming.

2.0 Kinesiology courses: Kinesiology 2222A/B, 2230A/B, 2241A/B, 2298A/B

0.5 course from: Kinesiology 2236A/B, 2250A/B, 2263F/G, Kin 2276F/G, Kin 2292F/G [or the former 2290F/G, 2293F/G], Dance 2270A/B.

Business Administration 2257

0.5 elective which must include any introductory level or equivalent statistics course, if not previously completed.

Year Three

All students will take: Business Administration 3300K, 3301K, 3302K, 3303K, 3304K, 3307K, 3311K, 3316K, 3321K, 3322K, 3323K.

No substitute for any of the above courses is permitted under any circumstances.

Fourth Year

2.5 Kinesiology courses numbered 2000 4999 [non activity based] which must include Kinesiology 3398F/G, 3399A/B, 2032A/B.

(HBA2 Requirements can be taken over year 4 or 5 - no course is restricted to either year)

2.0 HBA Required Courses as follows:

0.5 International Perspective Requirement: Business Administration 4505A/B - Global Environment of Business

0.5 Corporations and Society Perspective Requirement: Business Administration 4521A/B, 4522A/B, 4523A/B or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.

1.0 Applied Project Requirement: one of Ivey Consulting Project Business Administration 4430 or Ivey New Venture Project Business Administration 4410 .

Note: A student could choose to do both Applied Project options and this would reduce their elective requirements by 1.0 credits.

1.0 additional business elective offerings chosen from available 4000 level courses.

Fifth Year

3.5 Kinesiology courses numbered 2000-4999 which must include Kinesiology 4489a/b, 4498A/B.

2.0 courses in Business Administration chosen from available 4000 level courses.

* Note: students have the potential to increase to a maximum of 6.0 courses per year with additional Business electives. Prior permission is required

KINESIOLOGY - DANCE

Effective **March 1, 2010**, the following course be withdrawn as a course offering at UWO:

Dance 2277A/B: Introduction to Jazz Dance

Effective **March 1, 2010**, Dance 2375A/B (*Ballet Fundamentals*) be introduced in the School of Kinesiology, with the following course description:

Dance 2375A/B: Ballet Fundamentals

Development of classical ballet techniques through in-depth study of body line, posture and weight placement, coordinated use of arms and eyeline, and the relationship between musicality and dynamics. Sessions will be comprised of rigorous ballet classes where the foundations of techniques and movement combinations are discussed as part of the class.

Prerequisite(s): Dance 2275A/B or Permission of the Faculty.

Antirequisite(s): Dance 472b 2006-2008, or Dance 4472b 2009

6 hours lecture/lab, 0.5 course.

Effective **March 1, 2010**, Dance 2475A/B (*Dance and Rhythm*) be introduced in the School of Kinesiology with the following course description:

Dance 2475A/B: Dance and Rhythm

Movement skills are developed as students acquire an understanding of the basic components of rhythm, and the specific rhythmic structures, steps and movement combinations identified with selected dance types such as tap, jazz, ballroom and Latin American dance.

Prerequisite(s): Dance 2275A/B or permission of the Faculty

6 hours lecture/lab, 0.5 course.

Effective **March 1, 2010**, Dance 2476A/B (*Introduction to Theatre Dance*) be introduced in the School of Kinesiology with the following course description:

Dance 2476A/B: Introduction To Theatre Dance

Development of movement skills and application of theoretical knowledge that will assist the student in understanding and appreciating various dance types and styles that are used in musical and theatre productions including modern, tap, jazz, ballroom and Latin American dance.

Prerequisite(s): Dance 2475A/B or permission of the Faculty.

6 hours lecture/laboratory, 0.5 course.

NURSING

Effective **September 1, 2010**, the following course will be withdrawn from level two of the Western Compressed Time Frame BScN program:

Nursing 2202X: Professional Nursing Practice II: Adult Health Care

Effective **September 1, 2010**, Nursing 2205Y (*Introduction to Adult Health Professional Nursing Practice*) be introduced in level two of the Western Compressed Time Frame BScN program:

Nursing 2205Y: Introduction to Adult Health Professional Nursing Practice

This course focuses on concepts and nursing practice skills that will assist students in understanding the role of the nurse in assessing, planning, implementing and evaluating the care of individuals with complex episodic health challenges.

Antirequisite(s): the former Nursing 2202X
 Prerequisite(s): Registration in the Compressed Time Frame BScN Program
 Corequisite(s): Nursing 2201X, Nursing 2203B,
 4 weeks seminar/laboratory – 6 hrs/week, 0.5 course.

Effective **September 1, 2010**, Nursing 2206Y (Professional Nursing Practice II) be introduced in level two of the Western Compressed Time Frame BScN program.:

Nursing 2206Y: Professional Nursing Practice II

This course offers students the opportunity to apply concepts and professional practice skills acquired in N2205Y in an agency practice setting. Students will engage in the provision of holistic nursing care to clients with episodic health challenges.

Antirequisite(s): the former Nursing 2202X
 Prerequisite(s): Registration in the Compressed Time Frame BScN Program; a passing grade in Nursing 2205Y
 Corequisite(s): Nursing 2201X, Nursing 2203B,
 14 x 12 hr shifts over a 5 week period, 0.5 course.

Effective **September 1, 2010**, the following course will be withdrawn from level one of the Western Compressed Time Frame BScN program:

Nursing 1102W: Professional Nursing Practice 1: Assessment of Health and Illness

Effective **September 1, 2010**, Nursing 1105Y (Introduction to Professional Nursing Practice) be introduced in level one of the Western Compressed Time Frame BScN program:

Nursing 1105Y: Introduction to Professional Nursing Practice

This course focuses on concepts and nursing practice skills that will assist students in understanding the role of the nurse, including the nature of professional caring relationships. Students are prepared to engage in basic assessment and care of adult clients experiencing chronic health challenges.

Antirequisite(s): the former Nursing 1102W
 Prerequisite(s): Registration in the Compressed Time Frame BScN Program
 Corequisite(s): Nursing 1101W, Nursing 1103W
 8 weeks seminar/laboratory – 4 hours/week, 0.5 course.

Effective **September 1, 2010**, Nursing 1106Y (Professional Nursing Practice I) be introduced in level one of the Western Compressed Time Frame BScN program:

Nursing 1106Y: Professional Nursing Practice I

This course offers students the opportunity to apply concepts and professional practice skills acquired in N1105Y in an agency practice setting. Students will engage in the provision of holistic nursing care to clients with chronic health challenges.

Antirequisite(s): the former Nursing 1102W
 Prerequisite(s): Registration in the Compressed Time Frame BScN Program; a passing grade in Nursing 1105Y
 Corequisite(s): Nursing 1101W, Nursing 1103W
 32 hrs/week x 4 weeks, 0.5 course.

Effective **September 1, 2010**, the following course will be withdrawn from Year 4 of the Western-Fanshawe Collaborative BScN program:

Nursing 4421W/X: Focused Clinical Practice

Effective **September 1, 2010**, Nursing 4430Y (Simulated Clinical Practice) be introduced in year four of the Western-Fanshawe Collaborative BScN program:

Nursing 4430Y: Simulated Clinical Practice

This course focuses on advanced concepts and nursing practice skills in a simulated learning environment. Students will assess, plan, implement and evaluate care for simulated clients/scenarios that will assist in the integration of theory, research and practice.

Antirequisite(s): the former Nursing 4421W/X
 Prerequisite(s): Registration in Year 4 of the Western-Fanshawe Collaborative BScN Program.
 Corequisite(s): Nursing 4420W/X, Nursing 4431Y
 3 hours per week times 6 weeks, 0.5 course.

Effective **September 1, 2010**, Nursing 4431Y (Applied Clinical Practice) be introduced in year four of the Western-Fanshawe Collaborative BScN program:

Nursing 4431Y: Applied Professional Practice

This professional practice experience focuses on advanced concepts and nursing practice in agencies with clients experiencing multiple health challenges. This course prepares students for their final Integrative Practicum.

Antirequisite(s): the former Nursing 4421W/X
 Prerequisite(s): Registration in Year 4 of the Western-Fanshawe Collaborative BScN Program.
 Corequisite(s): Nursing 4420W/X, Nursing 4430Y
 24 hours times 6 weeks, 0.5 course.

FACULTY OF LAW

LAW

Effective **September 1, 2010**, the following Special Topics courses will be introduced by the Faculty of Law:

Law 5925 A/D - 5934 A/D (inclusive)
 Special Topics in Law
 Two credits, one term

Law 5915 A/D - 5924 A/D (inclusive)
 Special Topics in Law
 One credit, one term

FACULTY OF SCIENCE, including BMSc

ENVIRONMENTAL SCIENCE

Effective **September 1, 2010**, the title, description, antirequisite, and prerequisite for Environmental Science 4970F/G "Research Project" be revised:

Environmental Science 4970 F/G: Independent Study in Environmental Science

A research project course in a particular field under the direction of a faculty member who is a member of the Centre for Environment and Sustainability.

Antirequisite(s): Environmental Science 4999E
 Prerequisite(s): Enrolment in Year 4 of the Specialization or Major module in Environmental Science.
 Students must have arranged a project with a supervisor before completing registration.
 8 laboratory / tutorial hours, 0.5 course.

Effective **September 1, 2010**, the following course offered by Environmental Science in the Faculty of Science be withdrawn:

Environmental Science 4971F/G: Research Project II

Effective **September 1, 2010**, Environmental Science 4999E: Honors Research Thesis, offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be introduced:

Environmental Science 4999E: Honors Research Thesis

A major laboratory or field project that emphasizes experimental design, instrumentation, collection and analysis of data, and communication of experimental results by oral and written presentations.

Prerequisite(s): Fourth year registration in the Honors Specialization in the Environmental Science module. Students must have arranged a project with a supervisor before completing registration. In the late winter, a list of potential projects for the following academic year will be available from the Undergraduate Chair of Environmental Science.

Antirequisite(s): Environmental Science 4970F/G, the former Environmental Science 4971F/G.

Minimum 15 laboratory hours per week, and during the first term an additional 2 seminar hours per week; 1.5 course.

*Effective **September 1, 2010**, the admission and module requirements for the Honors Specialization in Environmental Science, offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be revised:*

HONORS SPECIALIZATION IN ENVIRONMENTAL SCIENCE

Admission Requirements:

Completion of first-year requirements with no failures. Students must have an average of at least 70% in 3.5 principal courses, with no mark in these principal courses below 60%, including:

Biology 1001A and 1002B, or the former Biology 1222 or 1223; Chemistry 1100A/B and 1200B, or the former Chemistry 1020, 1050, or 023;

0.5 course from: Environmental Science 1021F/G, or a 1000-level half course in Geography, or Earth Science 1022A/B, 1023A/B, 1081A/B, or Physics 1028A, 1029B, 1301A/B, 1302A/B, 1401A/B, 1402A/B, 1501A/B, or 1502A/B, or the former Physics 1020, 1024 or 1026; 1.0 course from: Applied Mathematics 1201A/B, Calculus 1000A/B, 1100A/B, 1301A/B, or 1501A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, or 1600A/B, Statistical Science 1024A/B, or the former Calculus 1201A/B, Linear Algebra 1600A/B or Mathematics 030.

Module

9.0 Courses:

0.5 course: Biology 2483A or Biology 2485B

0.5 course: Chemistry 2210A/B

1.0 course: Environmental Science 3300F/G; 3350F/G

0.5 course from: Biology 2244A/B, Statistical Sciences 2122A/B, 2141A/B, 2143A/B, Psychology 2810 (Module will be 9.5 courses if Psychology 2810 is taken).

0.5 course: Geography 2220A/B (strongly recommended) or a Geography half-course from the Environmental Science Course List

0.5 course at the 2000-level from Earth Sciences courses in the Environmental Physical Sciences Subject Courses List

1.5 course: Environmental Science 4999E

0.5 course from: Environmental Science 4949F/G, Biology 4230A/B, 4243G, 4405F/G, 4932F/G, Earth Science 4431A/B.

2.5 additional courses from the Environmental Science Course List, including at least 0.5 course from each of the 3 subject areas.

1.0 additional course at the 3000 level or above from the Environmental Science Course List.

Note: Students should plan the modules taking into account prerequisites of senior courses.

*Effective **September 1, 2010**, the content of the Environmental Science Course List, associated with the modules offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be revised:*

ENVIRONMENTAL SCIENCE COURSE LIST

Environmental Life Science Courses

Biology 2290F/G, 2404A, 2217B, 2471B, 2484A, 2486A, 3220Z, 3404F, 3421F, 3435F/G, 3436F, 3440A/B, 3442A/B, 3445F, 3446B, 3475A/B, 4223F/G, 4230A/B, 4243G, 4257Z, 4258Z, 4259F, 4405F/G, 4436G, 4441F; Earth Sciences 2265A/B, 3369A/B; Geography 2131A/B, 2320A/B, 3321A/B; Pathology 3240A, 3245B; Pharmacology 3560A/B or the former 357; Microbiology and Immunology 2100A; Or a course approved for this category by an Environmental Science counsellor.

Environmental Physical Science Courses

Chemical and Biochemical Engineering 4409A/B or the former 3363A/B; Chemistry 2213A/B, 2272A/B, 3372A/B; Civil and Environmental Engineering 3328A/B, 3362A/B, 4405A/B, 4465A/B, 4477A/B; Earth

Science 2200A/B, 2220A/B, 2222A/B, 2230A/B, 2240F/G, 3320A/B, 3321A/B, 3340A/B, 3341A/B, 4431A/B, 4440A/B; Geography 2122A/B, 2210A/B, 2220A/B, 2230A/B, 2240A/B, 2310A/B, 2330A/B, 3221A/B, 3222A/B, 3223A/B, 3231A/B, 3260A/B, 3311A/B, 3312A/B, 3331A/B, 3333A/B, 3334A/B, 3341A/B, 3342A/B, 3350A/B, 3351A/B, 3352A/B; Medical Biophysics 3336F/G; Physics 2070A/B, 2700A/B; Or a course approved for this category by an Environmental Science counsellor.

Environmental Philosophy, Policy and Political Science Courses

Anthropology 2203F/G, 3369F/G; Economics 2172A/B or 3374A/B; Economics (Huron) 2170A/B; First Nations 2111E, 2132F/G, 2203F/G, 2218F/G, 2601F/G, 3140F/G, 3722F/G; Geography All courses in the 2010-2090 series, the 2151-2162 series, and the 2410-2460 series, 3250A/B, 3432A/B, 3441F/G, 3451A/B, 3452A/B, 3453F/G, 3459A/B, 4430A/B; History 3225F/G (additional antirequisite, HIS 2123), 3407F/G; History (Brescia College) 2123 (additional antirequisite, HIS 3225), 2211E, 3217E, 4705E; Political Science 2137, 2235E; Political Science (Huron) 3379E; Philosophy 2033A/B, 2035F/G; Sociology 2103F/G, 2104F/G, 2107A/B, 2151A/B; Or a course approved for this category by an Environmental Science counsellor.

*Effective **September 1, 2010**, the admission and module requirements for the Major in Environmental Science, offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be revised:*

MAJOR IN ENVIRONMENTAL SCIENCE

Admission Requirements

Completion of first-year requirements, with no mark in these principal courses below 60%, including: Biology 1001A and 1002B, or the former Biology 1222 or 1223; Chemistry 1100A/B and 1200B, or the former Chemistry 1020, 1050, or 023;

0.5 course from: Environmental Science 1021F/G, or a 1000-level half course in Geography, or Earth Science 1022A/B, 1023A/B, 1081A/B, or Physics 1028A, 1029B, 1301A/B, 1302A/B, 1401A/B, 1402A/B, 1501A/B, or 1502A/B, or the former Physics 1020, 1024 or 1026; 1.0 course from: Applied Mathematics 1201A/B, Calculus 1000A/B, 1100A/B, 1301A/B, or 1501A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, or 1600A/B, Statistical Science 1024A/B, or the former Calculus 1201A/B, Linear Algebra 1600A/B or Mathematics 030.

Module

6.0 courses:

0.5 course: Biology 2483A or Biology 2485B

0.5 course: Chemistry 2210A/B

1.0 course: Environmental Science 3300F/G; 3350F/G

0.5 course from: Biology 2244A/B, Statistical Sciences 2122A/B, 2141A/B, 2143A/B, Psychology 2810 (Module will be 6.5 courses if Psychology 2810 is taken).

0.5 course: Geography 2220A/B (strongly recommended) or a Geography half-course from the Environmental Science Course List

0.5 course at the 2000-level from Earth Sciences courses in the Environmental Physical Science Courses List

2.5 additional courses from Environmental Science 4970F/G or the Environmental Science Course List, including at least 0.5 course from each of the 3 subject areas

Note: Students should plan the modules taking into account prerequisites of senior courses.

*Effective **September 1, 2010**, the admission and module requirements for the Minor in Environmental Science, offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be revised:*

MINOR IN ENVIRONMENTAL SCIENCE

Admission Requirements

Completion of first-year requirements, with no mark in these principal courses below 60%, including: Biology 1001A and 1002B, or the former Biology 1222 or 1223; Chemistry 1100A/B and 1200B, or the former Chemistry 1020, 1050, or 023;

0.5 course from: Environmental Science 1021F/G, or a 1000-level half course in Geography, or Earth Science 1022A/B, 1023A/B, 1081A/B, or Physics 1028A, 1029B, 1301A/B, 1302A/B, 1401A/B, 1402A/B, 1501A/B, or 1502A/B, or the former Physics 1020, 1024 or 1026; 1.0 course from: Applied Mathematics 1201A/B, Calculus 1000A/B, 1100A/B, 1301A/B, or 1501A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, or

1600A/B, Statistical Science 1024A/B, or the former Calculus 1201A/B, Linear Algebra 1600A/B or Mathematics 030.

Module

4.0 courses

0.5 course: Biology 2483A or Biology 2485B

0.5 course: Chemistry 2210A/B

1.0 course: Environmental Science 3300F/G; 3350F/G

0.5 course from: Biology 2244A/B, Statistical Sciences 2122A/B, 2141A/B, 2143A/B, Psychology 2810 (Module will be 4.5 courses if Psychology 2810 is taken.)

0.5 course: Geography 2220A/B (strongly recommended) or a Geography half-course from the Environmental Science Course List

0.5 course at the 2000-level from Earth Sciences courses in the Environmental Physical Science Courses List

0.5 additional course from the Environmental Science Course List

Note: Students should plan the module taking into account prerequisites of senior courses.

Effective **September 1, 2010**, the admission and module requirements for the Specialization in Environmental Science, offered by the Environmental Science unit of the Environment and Sustainability Centre, Faculty of Science, be revised:

SPECIALIZATION IN ENVIRONMENTAL SCIENCE

Admission Requirements

Completion of first-year requirements, with no mark in these principal courses below 60%, including: Biology 1001A and 1002B, or the former Biology 1222 or 1223; Chemistry 1100A/B and 1200B, or the former Chemistry 1020, 1050, or 023;

0.5 course from: Environmental Science 1021F/G, or a 1000-level half course in Geography, or Earth Science 1022A/B, 1023A/B, 1081A/B, or Physics 1028A, 1029B, 1301A/B, 1302A/B, 1401A/B, 1402A/B, 1501A/B, or 1502A/B, or the former Physics 1020, 1024 or 1026;

1.0 course from: Applied Mathematics 1201A/B, Calculus 1000A/B, 1100A/B, 1301A/B, or 1501A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, or 1600A/B, Statistical Science 1024A/B, or the former Calculus 1201A/B, Linear Algebra 1600A/B or Mathematics 030.

Module

9.0 courses:

0.5 course: Biology 2483A or Biology 2485B

0.5 course: Chemistry 2210A/B

1.0 course: Environmental Science 3300F/G; 3350F/G

0.5 course from: Biology 2244A/B, Statistical Sciences 2122A/B, 2141A/B, 2143A/B, Psychology 2810 (Module will be 9.5 courses if Psychology 2810 is taken).

0.5 course: Geography 2220A/B (strongly recommended) or a Geography half-course from the Environmental Science Course List

0.5 course at the 2000-level from Earth Sciences courses in the Environmental Physical Science Courses List

0.5 course from: Environmental Science 4949F/G, 4970F/G, Biology 4230A/B, 4243G, 4405F/G, 4932F/G, Earth Science 4431A/B.

2.5 additional courses from the Environmental Science Course List, including at least 0.5 course from each of the 3 subject areas.

2.5 additional courses at the 3000 level or above from: Environmental Science 4970F/G or the Environmental Science Course List

Note: Students should plan the module taking into account prerequisites of senior courses.

MICROBIOLOGY AND IMMUNOLOGY

Effective **September 1, 2010**, the prerequisites for Microbiology and Immunology 2100A: *Biology of Prokaryotes*, and Microbiology and Immunology 2500B: *Biology of Infection and Immunity*, offered by the Department of Microbiology and Immunology in the Schulich School of Medicine & Dentistry, be revised to accommodate the withdrawal of Biology 1222, 1223, and Chemistry 1050, and the introduction of Biology 1001A, 1002B, 1201A, 1202B, and Chemistry 1100A/B and 1200B. "Or permission of the instructor" will be removed from the prerequisite for Microbiology and Immunology 2500B:

Microbiology and Immunology 2100A: Biology of Prokaryotes

This course examines the fundamental aspects of the structure, physiology, genetics, and phylogenetic relationships of the Bacteria and Archaea. Examples of medically and environmentally important organisms are presented.

Prerequisite(s): either Biology 1001A or 1201A and either Biology 1002B or 1202B, or one of the former Biology 1222 or 1223; Chemistry 1100A/B and 1200B, or one of the former Chemistry 1020, 1050 or 023.
Corequisite(s): Biochemistry 2280A.

2 lecture hours, 3 laboratory hours, 0.5 course.

Microbiology and Immunology 2500B: Biology of Infection and Immunity

The biology of selected pathogens and the diseases they cause. An examination of host/parasite relationships and strategies used by microbes to survive in their hosts. Aspects of clinical disease will be studied including diagnosis and treatment based on modern molecular techniques and the nature of host immune responses.

Antirequisite(s): Microbiology and Immunology 4100A, 4200B and 4300A.

Prerequisite(s): either Biology 1001A or 1201A and either Biology 1002B or 1202B, or one of the former Biology 1222 or 1223.

3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Microbiology and Immunology 3810W: *Microbiology and Immunology for Nursing Students* will be introduced by the Department of Microbiology and Immunology in the Schulich School of Medicine & Dentistry:

Microbiology and Immunology 3810W: Microbiology and Immunology for Nursing Students

The biology of host immune responses and microorganisms with pathogenic potential and clinical aspects of infectious diseases, in the community, the hospital and the long term care institution will be covered. The role and professional attitude of the nurse in prevention, detection, control and management of infections will be emphasized.

Antirequisite(s): the former Microbiology and Immunology 3800

4 lecture hours; first semester. 1.0 course.

Effective **September 1, 2010**, the following course will be withdrawn from the offerings of the Department of Microbiology and Immunology in the Schulich School of Medicine & Dentistry:

Microbiology and Immunology 3800: Microbiology and Immunology**PHYSIOLOGY AND PHARMACOLOGY**

Effective **September 1, 2010**, the prerequisites for Pharmacology 2060A/B: *Introductory Pharmacology and Therapeutics*, offered by the Department of Physiology and Pharmacology in the Schulich School of Medicine & Dentistry, be revised by including Chemistry 2273A as an alternative prerequisite to Chemistry 2213A and removing the reference to the Health Information Management program. The Extra Information will be revised to indicate that the course is only offered on-line:

Pharmacology 2060A/B: Introductory Pharmacology and Therapeutics

A course for students in the BSc in Nursing and other Health Sciences programs as well as students in BSc and BSc programs, to provide a basic understanding of the fundamentals of drug action and the mechanisms of action and therapeutic use of the important classes of drugs.

Antirequisite(s): Pharmacology 3550A/B.

Pre- or Corequisite(s): Biochemistry 2280A and either Chemistry 2213A/B or 2273A.

1 tutorial hour (optional), 0.5 course. Only offered on-line (Distance Studies).

Effective **September 1, 2010**, Pharmacology 3580Y be removed as one of the prerequisites for the following Pharmacology courses, offered by the Department of Physiology and Pharmacology in the Schulich School of Medicine & Dentistry. As well, the removal of Pharmacology 3580Y as a prerequisite for these courses also allows for the removal of "Pharmacology 3550A/B and registration in Year 4 of a module in Pathology and Toxicology" as a prerequisite. Wherever Pharmacology 3550A/B is required as a prerequisite for one of these 4000-level courses, Pharmacology 3560A/B (a prerequisite for 3550A/B) is also being added as a prerequisite:

Pharmacology 4340A/B: Gene Expression Pathways in Drug Discovery

This course explores how drugs and endogenous compounds mediate their biological effects through nuclear signalling pathways. The emphasis will be on aspects of gene regulation and signalling by nuclear hormone receptors – a family of ligand dependent transcription factors essential for normal metabolism, development and reproduction.

Prerequisite(s): Biochemistry 2280A and registration in Year 4, or permission of the Department.

2 lecture hours, 0.5 course.

Pharmacology 4360A/B: Mechanisms of Cancer Chemotherapy

This course is designed to give students a basic understanding of the molecular pharmacology and therapeutic properties of anticancer agents. The focus is on molecular mechanisms of cancer chemotherapy, and will include drug resistance and the roles of receptor kinases and G protein-coupled receptors in existing and novel cancer therapies.

Prerequisite(s): Pharmacology 3550A/B and 3560A/B, or Physiology 3140A; or the former Pharmacology and Toxicology 357, or permission of the Department.

2 lecture hours, 0.5 course.

Pharmacology 4380A/B: Neuropharmacology

This course will focus on the cellular and molecular mechanisms underlying the actions of drugs on the central and peripheral nervous systems. The focus will be on recent developments in the field of neuroscience and their impact on our understanding of the actions, and development of, new drugs.

Prerequisite(s): Pharmacology 3550A/B and 3560A/B, or the former Pharmacology and Toxicology 357; Physiology 3140A; or permission of the Department.

2 lecture hours, 0.5 course.

Pharmacology 4430A/B: Pharmacology and Toxicology of Natural-Sourced Medicines

Contemporary use of medicines derived from natural sources. Regulatory aspects of their use and the scientific basis for assessment of efficacy, quality, and safety of these products will be discussed. The mechanism(s) of beneficial and harmful effects of selected natural health products, including herb-drug interactions, will be included.

Prerequisite(s): Pharmacology 3550A/B and 3560A/B, or the former Pharmacology and Toxicology 357; or permission of the Department.

2 lecture hours per week, 1 tutorial hour, 0.5 course.

Pharmacology 4540A/B: Molecular Mechanisms of Disease and Therapy: Cell Proliferation, Tissue Repair and Regenerative Medicine

An examination of how mechanisms that regulate cell proliferation affect normal tissue repair and cause abnormalities, such as tumour formation and poor regeneration after injury. The course explores the basic molecular and cellular processes of relevant human disorders and the clinically useful pharmacological and regenerative medical therapies.

Prerequisite(s): Physiology 3120; Physiology 3140A or Biology 3316A/B; Pharmacology 3550A/B and 3560A/B, or the former Pharmacology and Toxicology 357; or permission of the Department.

2.0 lecture hours, 0.5 course.

Pharmacology 4620A: Molecular Mechanisms of Drug Action

This course is focused on the molecular mechanisms underlying the biological effects of drugs. Content includes: i) advanced drug-receptor theory, ii) theoretical models used to predict drug effects, and iii) chemical structure-activity relationships and modern receptor structure-function analyses as they relate to drug action.

Prerequisite(s): Pharmacology 3550A/B and 3560A/B, or the former Pharmacology and Toxicology 357, or permission of the Department.

2 lecture hours, 0.5 course.

Pharmacology 4660A/B: Human Toxicology

A course dealing with the pharmacological and toxicological principles underlying the adverse effects of xenobiotics in humans. In addition to reviewing mechanisms of toxicity in humans, the course will include overviews of the principles of management of human poisoning, the principles of chronic toxicity and of drug safety in humans.

Prerequisite(s): Pharmacology 3560A/B or the former Pharmacology and Toxicology 357, or permission of the Department.

2 lecture hours, 0.5 course

Effective September 1, 2010, the prerequisites for Physiology 2130: Human Physiology, offered by the Department of Physiology and Pharmacology in the Schulich School of Medicine & Dentistry, be revised by removing the prerequisite of Grade 12U Biology and Chemistry:

Physiology 2130: Human Physiology

A survey course outlining the principles of human/mammalian physiology: general properties of the living cell and internal environment; neural, muscle, cardiovascular, respiratory, gastro-intestinal, renal and endocrine system; metabolism, reproduction, and homeostasis.

Antirequisite(s): Physiology 1020, 1021, 3120.

Prerequisite(s): First-year courses in Biology and Chemistry are recommended.

2 lecture hours, 1 tutorial hour, 1.0 course.

Effective September 1, 2010, the prerequisites for the following 3000-level courses in Physiology be revised to accommodate the withdrawal of Biology 1222 and 1223, Chemistry 1050, Linear Algebra 1600A/B, and Physics 1020 and 1024, and the introduction of Biology 1001A, 1002B, 1201A, and 1202B, Chemistry 1100A/B and 1200B, Mathematics 1600A/B, and Physics 1301A/B, 1302A/B, 1501A/B and 1502A/B:

Physiology 3120: Human Physiology

A survey of the physiology of various systems (e.g. neural, endocrine, renal, cardiovascular, digestive, respiratory, etc.) of the human.

Prerequisite(s): one of Physics 1028A/B, 1301A/B or 1501A/B and one of Physics 1029A/B, 1302A/B or 1502A/B, or the former Physics 1020 or 1024; 1.0 course from: Calculus 1000A/B or 1100A/B, Calculus 1301A/B or 1501A/B, Mathematics 1600A/B or the former Linear Algebra 1600A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, Statistical Sciences 1024A/B, Applied Mathematics 1201A/B or the former Calculus 1201A/B, Applied Mathematics 1413, or the former Mathematics 030; one of Biology 1001A or 1201A and one of Biology 1002B or 1202B, or the former Biology 1222 or 1223; or permission of the department. It is strongly recommended that Biochemistry 2280A and Biology 2382B be taken prior to Physiology 3120. Open only to students who are registered in Years 3 or 4.

3 lecture hours, 1.0 course.

Physiology 3130Y: Physiology Laboratory

A series of laboratory exercises, brief tutorials and student presentations involving nerves and muscles; neural, cardiovascular, respiratory, renal and endocrine systems.

Prerequisite(s): one of Physics 1028A/B, 1301A/B or 1501A/B and one of Physics 1029A/B, 1302A/B or 1502A/B, or the former Physics 1020 or 1024; 1.0 course from: Calculus 1000A/B or 1100A/B, Calculus 1301A/B or 1501A/B, Mathematics 1600A/B or the former Linear Algebra 1600A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, Statistical Sciences 1024A/B, Applied Mathematics 1201A/B or the former Calculus 1201A/B, Applied Mathematics 1413, or the former Mathematics 030; one of Biology 1001A or 1201A and one of Biology 1002B or 1202B, or the former Biology 1222 or 1223; or permission of the department. It is strongly recommended that Biochemistry 2280A and Biology 2382B be taken prior to Physiology 3130Y. A minimum average of 70% in the previous year is required. Open only to students who are registered in Years 3 or 4.

Corequisite(s): Physiology 3120

3 laboratory hours, 0.5 course (from September to April)

Physiology 3140A: Cellular Physiology

A survey of principles of cellular physiology including membrane, ion channel, receptor, and transport protein function, and signal transduction mechanisms.

Prerequisite(s): one of Physics 1028A/B, 1301A/B or 1501A/B and one of Physics 1029A/B, 1302A/B or 1502A/B, or the former Physics 1020 or 1024; 1.0 course from: Calculus 1000A/B or 1100A/B, Calculus

1301A/B or 1501A/B, Mathematics 1600A/B or the former Linear Algebra 1600A/B, Mathematics 1225A/B, 1228A/B, 1229A/B, Statistical Sciences 1024A/B, Applied Mathematics 1201A/B or the former Calculus 1201A/B, Applied Mathematics 1413, or the former Mathematics 030; one of Biology 1001A or 1201A and one of Biology 1002B or 1202B, or the former Biology 1222 or 1223; or permission of the department. It is strongly recommended that Biochemistry 2280A and Biology 2382B be taken prior to Physiology 3140A. Open only to students who are registered in Years 3 or 4.
3 lecture hours, 0.5 course.

Effective **September 1, 2010**, Physiology 3130Y be removed as one of the prerequisites for the Physiology courses listed below, offered by the Department of Physiology and Pharmacology in the Schulich School of Medicine & Dentistry:

Physiology 4640A/B: Organogenesis in Mammals

Mechanisms underlying the development of selected organs and organ systems in mammals: brain and peripheral nervous system, heart and vascular system, lungs, kidneys, gonads and associated reproductive structures, gastrointestinal tract, and limbs. Emphasis is on the biochemical and morphological maturation pathway that equips each system for its physiological role.

Prerequisite(s): Physiology 3120 and 3140A.

2 lecture hours, 0.5 course.

Physiology 4680A/B: Cellular/Molecular Neurobiology

Mechanisms at the cellular and molecular level by which function of neurons and their communication to target cells is regulated. Topics will cover physiological mechanisms involved in activation and regulation of glutamatergic and GABAergic synapses, synaptic plasticity, and signal transduction pathways of G-protein coupled receptors.

Prerequisite(s): Physiology 3120 and 3140A.

2 lecture hours, 0.5 course.

Physiology 4700A/B: Fetal Physiology

Aspects of fetal physiology are examined, including the establishment and roles of the placenta, regulation of fetal development and growth through to parturition. These areas are discussed with particular attention to the concept that, in utero, insults can alter fetal development thereby programming the susceptibility to disease in adult life.

Prerequisite(s): Physiology 3120.

2 lecture hours, 0.5 course.

Physiology 4730B: Cell Signalling in Tissue, Injury and Repair

Examines the basic principles and surveys molecular mechanisms of regulation of cell growth, adhesion, migration, and differentiation and their functional integration to support survival and development. Dysregulation of these processes in disease will also be examined. The course is composed of both lectures and student presentations of scientific literature.

Prerequisite(s): Physiology 3120.

2 lecture hours, 0.5 course.

FACULTY OF SOCIAL SCIENCE

PSYCHOLOGY

Effective **September 1, 2010**, Psychology 3227A/B will be listed as an antirequisite to Psychology 3224A/B as follows:

Psychology 3224A/B: Neuropsychology and Cognitive Neuroscience

Neural mechanisms in human perception, spatial orientation, memory, language, and motor behavior.

Antirequisite(s): Psychology 3227A/B.

Prerequisite(s): Psychology 2820E or both Psychology 2800E and 2810, and one of Psychology 2220A/B, 2221A/B.

3 lecture/discussion hours, 0.5 course.

BRESCIA UNIVERSITY COLLEGE**FAMILY STUDIES**

Effective **September 1, 2010**, Family Studies 4401A/B will be offered as a 1.0 course, Family Studies 4403. The hours required for practicum will be reduced from the calendar copy indication of 4.0 hours to 3.0 hours. In a second part, the original half-course, Family Studies 4401A/B will be withdrawn from the calendar:

Family Studies 4403: Practicum in Family Studies

Supervised field placement in family-focused community organizations. Enrolment limited to third and fourth year Brescia Family Studies students who meet volunteer/service background guidelines.

Antirequisite(s): The former Family Studies 4401A/B

Prerequisite(s): Family Studies 2200E or 2225 and permission of the instructor.

3 seminar/practicum hours, 1.0 course.

Note: Enrolment by permission of instructor only. Please contact the instructor to submit an application and a transcript. Enrolment is limited. Meeting the minimum requirements does not guarantee admission.

(Brescia)

Withdrawal of Family Studies 4401A/B**SOCIOLOGY**

Effective **September 1, 2010**, Sociology 3306A/B (*Investigating the Social World: Quantitative Research*) will be offered in the Division of Sociology and Family Studies. It will be required for students in the Honors Specialization in Sociology and the Honors Specialization in Community Rural Health Development, but will also be open to Majors and other Sociology students:

Sociology 3306A/B: Investigating the Social World: Quantitative Research

Mandatory for third-year Sociology students in an Honors Specialization. In this course students will learn to evaluate quantitative sociological research and gain hands-on experience carrying out and writing up a research project that investigates current social issues. Topics include: posing a research question, developing concepts and measures, and analyzing quantitative survey data.

Antirequisite(s): Sociology 3302A/B 3300A/B

Prerequisite(s): Enrolment in a Sociology Honors Specialization with a minimum grade of 60% in Sociology 2205A/B and 2206A/B or the former 231. If not in an Honors Specialization, a minimum grade of 70% in Sociology 2205A/B and 2206A/B or the former 231.

3 hours, 0.5 course. (Brescia, King's)

Effective **September 1, 2010**, The former 3rd year course on statistics and quantitative research -- Sociology 3300A/B -- will be removed from the offerings at Brescia and from the Calendar.

Withdrawal of Sociology 3300A/B.**HONORS SPECIALIZATION IN SOCIOLOGY**

The line labeled "2.5 courses:" the reference to Sociology 3300A/B will be removed.

HONORS SPECIALIZATION IN COMMUNITY RURAL HEALTH DEVELOPMENT

The line labeled "1.5 courses:" the reference to Sociology 3300A/B will be removed.

Effective **September 1, 2010**, Sociology 3307F/G (*Investigating the Social World: Qualitative Research*) will be offered in the Division of Sociology and Family Studies. It will be required for students in the Honors Specialization in Sociology, but will also be open to Majors and other Sociology students:

Sociology 3307F/G: Investigating the Social World: Qualitative Research

Mandatory for third-year Sociology students in an Honors Specialization. Students will learn to investigate the social world using content analysis, various methods of observation, and different types of interviewing. Particular attention will be paid to the relationship between epistemology and qualitative research approaches. Students will participate in research practice exercises. Ultimately, students will learn to think critically about sociological research.

Antirequisite(s): Sociology 3310F/G, 3311F/G.

Prerequisite(s): Enrolment in a Sociology Honors Specialization with a minimum grade of 60% in Sociology 2205A/B and 2206A/B or the former 231. If not in an Honors Specialization, a minimum grade of 70% in Sociology 2205A/B and 2206A/B or the former 231.

3 hours, 0.5 course.

(Brescia)

*Effective **September 1, 2010**, The former 3rd year course on research methods, which included qualitative research -- Sociology 3302A/B -- will be removed from the offerings at Brescia and from the Calendar:*

Withdrawal of Sociology 3302A/B.

HONORS SPECIALIZATION IN SOCIOLOGY

Reference to Sociology 3302A/B will be removed.

HURON UNIVERSITY COLLEGE

PSYCHOLOGY

*Effective **September 1, 2010**, the Major in Psychology at Huron University College will be revised with changes to the 3000-4999 level course requirements and the addition of 2180E to the list of core research courses:*

MAJOR IN PSYCHOLOGY

Admission Requirements

Completion of first-year requirements, including Psychology 1100E with a mark of at least 60%.

Module

6.0 courses:

0.5 course: Psychology 2830A/B (students are strongly advised to take Psychology 2830A/B in second year).

2.0 courses from: Psychology 2180E, 2280E, 2480E, 2780E.

0.5 course: Psychology 3830F/G.

1.0 additional courses in Psychology numbered 3000 or above.

2.0 additional courses in psychology at the 2100 level or above.

*Effective **September 1, 2010**, the Minor in Psychology at Huron University College will be revised to include Psychology 2180E to the list of core courses:*

MINOR IN PSYCHOLOGY

Admission Requirements

Completion of first-year requirements, including Psychology 1100E with a mark of at least 60%.

Module

4.0 courses:

0.5 course: Psychology 2830A/B (students are strongly advised to take Psychology 2830A/B in second year).

1.0 course from: Psychology 2180E, 2280E, 2480E, 2780E.

2.5 additional courses in Psychology at the 2100 level or above.

*Effective **September 1, 2010**, Psychology 3227A/B will be listed as an antirequisite to Psychology 3224A/B as follows:*

Psychology 3224A/B: Neuropsychology and Cognitive Neuroscience

Neural mechanisms in human perception, spatial orientation, memory, language, and motor behavior.

Antirequisite(s): Psychology 3227A/B.

Prerequisite(s): Psychology 2820E or both Psychology 2800E and 2810, and one of Psychology 2220A/B, 2221A/B.

3 lecture/discussion hours, 0.5 course.

REGISTRAR'S UPDATE

There are no updates for this time.