

The following proposals, received on DAP between February 1-15, 2013, have been approved.  
For more information on the DAP process, see the Academic Handbook at [www.uwo.ca/univse/handbook](http://www.uwo.ca/univse/handbook).

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## FACULTY OF ARTS AND HUMANITIES

### FRENCH STUDIES

Effective **September 1, 2013**, the Department of French Studies will revise the title for each of two existing French courses, 2605F/G and 2606F/G.

#### **French 2605 F/G Reading Cultures I Reading Literature in French: Middle Ages to Romanticism**

This course enables students to master literary reading, including the understanding of the major aspects of French and Francophone literatures and cultures, their particular histories as well as their relationship to the larger discipline of arts and humanities. The course provides tools for textual analysis, and improves written and oral communication in French.

Antirequisite(s): French 2600E.

Prerequisite(s): French 1900E or French 1910 or permission of the Department of French Studies, based on Placement Test.

3 lecture/tutorial hours, 0.5 course.

#### **French 2606F/G – Reading Cultures II Reading Literature in French: Modernity to Postmodernity**

This course enables students to master literary reading, including the understanding of the major aspects of French and Francophone literatures and cultures, their particular histories as well as their relationship to the larger discipline of arts and humanities. The course provides tools for textual analysis, and improves written and oral communication in French.

Antirequisite(s): French 2600E.

Prerequisite(s): French 1900E or French 1910 or permission of the Department of French Studies, based on Placement Test.

3 lecture/tutorial hours, 0.5 course.

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## FACULTY OF INFORMATION AND MEDIA STUDIES

Effective **September 1, 2013**, MIT 2307F/G: *Tales of Tinseltown* will be introduced at Main Campus.

#### **Media, Information and Technoculture 2307F/G – Tales of Tinseltown**

This course will examine representations of Hollywood in film, television, and print. From West's Day of the Locust (1939) to Tropic Thunder (2008), we will explore how Hollywood has become a model for thinking about what constitutes the real in contemporary culture, as well as how these representations inform the American political landscape and constructions of sexuality, desire, and identity.

Antirequisite(s): MIT 2406G if taken in 2010-11 or MIT 2406F in 2011-12 or 2012-2013.

3 lecture hours, 0.5 course.

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## FACULTY OF HEALTH SCIENCES

### SCHOOL OF KINESIOLOGY

Effective **September 1, 2013**, Kinesiology 2222A/B will have the following calendar copy description.

#### **Kinesiology 2222A/B – Systemic Approach to Functional Anatomy**

A gross anatomical description of systemic structure and function of the human body, with emphasis on musculoskeletal, muscular and cardiovascular and nervous systems. Integration between systems will be

discussed using clinical examples related to sport, medicine, and physical therapy. This is an introductory level lecture course for BA program Kinesiology students.

Antirequisite(s): Anatomy and Cell Biology 2221, 3319, and Health Sciences 2300A/B.

Prerequisite(s): **Grade 12 U Biology or equivalent is strongly recommended.** Completion of the first year Kinesiology program and registration in **the School of Kinesiology**. Restricted to BA Kinesiology students. 3 lecture hours, 1.0 laboratory hour, 0.5 course

## FACULTY OF SCIENCE

### BIOLOGY

Effective **September 1, 2013**, Biology 2486A - Evolution will be withdrawn by the Department of Biology in the Faculty of Science.

Effective **September 1, 2013**, the Honors Specialization in Animal Behaviour (BSc) module in the Department of Biology in the Faculty of Science and the Department of Psychology in the Faculty of Social Science will be revised.

#### HONORS SPECIALIZATION IN ANIMAL BEHAVIOUR (BSc)

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##### Module

##### 10.0 courses:

1.5 **1.0** courses: Biology 2290F/G, 2483A, ~~2486A~~.

1.5 courses: Psychology 2220A/B, 2800E.

0.5 course from: Psychology 2115A/B, 2210A/B.

0.5 course\* from: Biology 2244A/B, Psychology 2810, Statistical Sciences 2035, 2244A/B, or the former 2122A/B.

1.5 courses from: Psychology **3209F/G, 3220A/B, 3224A/B, 3225A/B**, 3226A/B, 3229A/B, 3285F/G, the former 3181F/G, 3280F/G.

1.5 **2.0** courses from: Biology 2484A 2601A/B, 3435F/G, 3442F/G, 3446B, 3475A/B, **3484A/B**, 3601A/B, 3602A/B, or the former Biology **2484A**, 2672A/B.

0.5 course from: Biology 3436F/G, Psychology 3221F/G.

0.5 course from: Biology 4259F/G, Psychology 3800F/G.

1.0 course\* from: Biology 4436F/G, 4441F/G, 4611F/G, 4999E (1.5 courses).

1.0 course from: Psychology 4190F/G, 4195F/G, **4222F/G, 4223F/G**, 4290F/G, 4295F/G, 4850E or 4851E.

\* If Psychology 2810 or Statistical Sciences 2035 or Biology 4999E is taken, the number of courses in the module will be adjusted accordingly to equal 10.5 or 11.0 courses.

##### Notes:

1. The following Psychology courses count towards the 11.0 Faculty of Science course requirements for this BSc degree: Psychology 2115A/B, 2210A/B, 2220A/B, 2800E, 2810, 3221F/G, 3285F/G, 3800F/G, the former 3181F/G, 3280F/G.

2. Students planning to pursue a graduate degree in Biology or Psychology are strongly encouraged to take either Biology 4999E or Psychology 4850E, but both may not be taken in this module. Both Biology 4999E and Psychology 4850E have limited enrollment.

Effective **September 1, 2013**, the Major in Ecosystem Health module in the Department of Biology in the Faculty of Science will be revised.

#### MAJOR IN ECOSYSTEM HEALTH

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##### Module

##### 6.0 courses:

2.0 courses: Biology 2483A, **3484A/B**, 4230A/B, 4405F/G or the former Biology 2484A.

0.5 course from: Biology 2485B, Medical Biophysics 3336F/G.

0.5 course from: Biology 2244A/B, **Statistical Sciences 2244A/B**, the former Statistical Sciences 2122A/B (students may substitute Statistical Sciences 2035 or Psychology 2810 for this 0.5 course and this would make the module 6.5 courses).

3.0 courses from the following: At least 1.0 course from: the former Chemical and Biochemical Engineering 3363A/B, Chemistry 2210A/B, Civil and Environmental Engineering 4405A/B, Environmental Science 3300F/G, 3350F/G; and at least 0.5 course from: Geography 2430A/B, 3431A/B, Sociology 2246A/B; At least 1.0 course from: Epidemiology and Biostatistics 3330B, Microbiology and Immunology 2500B, Pathology 3240A, 4400A/B, the former Pharmacology 3560A/B, 4660A/B.

**Note:** At least 3.5 courses taken in the module must be from the Faculty of Science.

*Effective **September 1, 2013**, the Major in Genetics module in the Department of Biology in the Faculty of Science will be revised.*

## MAJOR IN GENETICS

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### Module

#### 6.0 courses:

0.5 course: Biochemistry 2280A.

2-0 **1.5** courses: Biology 2290F/G, 2382B, ~~2486A~~, 2581B.

0.5 course from: Biology 2244A/B, **Statistical Sciences 2244A/B or the former** Statistical Sciences 2122A/B. Students may substitute Statistical Sciences 2035 or Psychology 2810 for this 0.5 course.

0.5 course: Biology 3596A/B.

0.5 courses from: Biology 3594A, 3595A, 3597A/B.

4-0 **1.5** courses (not already taken above) from: Biology 3466B, 3592A, 3593B, 3594A, 3595A, 3597A/B.

1.0 course from: Biology 4289A/B, 4540G, 4560B, 4561F, 4562B, Microbiology and Immunology 4700B, ~~or the former Biology 451F/G.~~

#### Notes:

1. Biology 3596A/B requires a minimum mark of 70% in each of Biology 2581B and 2290F/G.
2. Biology 3595A requires a minimum mark of 70% in Biology 2581B.
3. If students take Statistical Sciences 2035 or Psychology 2810 instead of Biology 2244A/B or Statistical Sciences 2122A/B, the module becomes 6.5 courses.
4. A degree containing this module normally requires 4 years to complete.

*Effective **September 1, 2013**, the Minor in Biology module in the Department of Biology in the Faculty of Science will be revised.*

## MINOR IN BIOLOGY

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### Module

#### 4.0 courses:

~~3-0~~ **2.5** courses from: Biochemistry 2280A, Biology 2244A/B **or Statistical Sciences 2244A/B**, Biology 2290F/G, 2382B, 2483A, ~~2486A~~, 2581B, Biology 2601A/B or the former Biology 2660A/B or 2672A/B, Chemistry 2213A/B

4-0 **1.5** courses in Biology at the 2200 level or above, which may include courses listed above not already taken.

*Effective **September 1, 2013**, the Honors Specialization in Biology module in the Department of Biology in the Faculty of Science will be revised.*

## HONORS SPECIALIZATION IN BIOLOGY

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### Module

#### 10.0 courses:

~~3-0~~ **2.5** courses: Biochemistry 2280A, Biology 2290F/G, 2382B, 2483A, ~~2486A~~, 2581B.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2601A/B, or the former Biology 2660A/B or 2672A/B.

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B or the former 2122A/B. Students may substitute

Statistical Sciences 2035 or Psychology 2810 for this 0.5 course.

4.0 courses at the 2200 level or above\*, chosen from the Department of Biology and the Basic Medical Sciences disciplines (see below), of which at least 3.0 courses must be chosen from the Department of Biology. A maximum of 1.0 course may be at the 2200-2999 level and at least 1.5 of these courses must have a laboratory component.

1.5 courses from: ~~Biology 4223F/G, 4230A/B, 4243G, 4257Z, 4258Z, 4259F/G, 4300F/G, 4338G, 4355F/G, 4405F/G, 4436F/G, 4441F, 4510F/G, 4540G, 4561F, 4608G, 4611F/G, 4920F/G, 4930F/G, 4931F/G, 4944F/G, 4970F/G, 4999E, the former 451F/G, 4941E, 4946E.~~

1.5 courses from: any 4000 level Biology course

0.5 courses from the following: Biology 4920F/G, 4930F/G, 4931F/G, 4944F/G (Students registered in Biology 4999E can satisfy this 0.5 credit with any 4000 level Biology course).

Basic Medical Sciences Disciplines: Anatomy and Cell Biology, Biochemistry, Epidemiology and Biostatistics, Medical Biophysics, Microbiology and Immunology, Pathology, Physiology, and Pharmacology.

Courses in History of Science are not included.

\* Microbiology and Immunology 2100A and/or Pharmacology 2060A/B may be taken to satisfy this requirement.

#### Notes:

1. If students take Statistical Sciences 2035 or Psychology 2810 instead of Biology 2244A/B or Statistical Sciences 2244A/B or the former Statistical Sciences 2122A/B, the module becomes 10.5 courses.
2. Many 4000-level Biology courses require the completion of 1.5 Biology courses at the 3000-level or above.
3. Students with specific Biology interests should visit the departmental website for course recommendations in various disciplines or contact a Biology Academic Counselor.

Effective **September 1, 2013**, the Specialization in Biology module in the Department of Biology in the Faculty of Science will be revised.

### SPECIALIZATION IN BIOLOGY

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#### Module

##### 9.0 courses:

~~3.0~~ 2.5 courses: Biochemistry 2280A, Biology 2290F/G, 2382B, 2483A, 2486A, 2581B.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2601A/B, or the former Biology 2660A/B or 2672A/B

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

Students may substitute Statistical Sciences 2035 or Psychology 2810 for this 0.5 course.

4.5 5.0 courses at the 2200 level or above\*, chosen from the Department of Biology and Basic Medical Sciences disciplines (see below), of which at least ~~3.5~~ 4.0 courses must be chosen from the Department of Biology. A maximum of 1.0 course may be at the 2200-2999 level and at least 1.5 of these courses must have a laboratory component.

Basic Medical Sciences Disciplines: Anatomy and Cell Biology, Biochemistry, Epidemiology and Biostatistics, Medical Biophysics, Microbiology and Immunology, Pathology, Physiology, and Pharmacology.

Courses in the History of Science are not acceptable.

\*Microbiology and Immunology 2100A and/or Pharmacology 2060A/B may be taken to satisfy this requirement.

Effective **September 1, 2013**, the Honors Specialization in Genetics module in the Department of Biology in the Faculty of Science will be revised.

### HONORS SPECIALIZATION IN GENETICS

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#### Module

##### 10.0 courses:

0.5 course: Biochemistry 2280A.

~~4.5~~ 4.0 courses: Biology 2290F/G, 2382B, 2483A, 2486A, 2581B, 3596A/B, 4582, 4950F/G, or the former 4943E.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2244A/B, Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

Students may substitute Statistical Sciences 2035 or Psychology 2810 for this 0.5 course.

0.5 course from: Biology 2601A/B, or the former Biology 2660A/B, 2672A/B.

1.0 course from: Biology 3466B, 3592A, 3593B.

1.0 course from: Biology 3594A, 3595A, 3597A/B, 3598A/B.

0.5 course from: Any of the 3000 level Biology courses listed above and not already taken.

1.5 course from: Biology 4289A/B, 4355F/G, 4510F/G, 4540G, 4560B, 4561F, 4562B, 4970F/G, 4999E, Microbiology and Immunology 4700B, the former Biology 451F/G.

**Notes:**

1. In addition to the normal progression requirements for Honors Specializations, students must obtain a minimum mark of 70% in each of Biology 2581B, 2290F/G and 3596A/B and 1.0 of the 3000 level Biology courses listed above, in order to progress within the Honors Specialization in Genetics.

2. If students take Statistical Sciences 2035 or Psychology 2810 instead of Biology 2244A/B or Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B, the module becomes 10.5 courses.

*Effective **September 1, 2013**, the Honors Specialization in Genetics and Biochemistry module in the Department of Biology in the Faculty of Science will be revised.*

**HONORS SPECIALIZATION IN GENETICS AND BIOCHEMISTRY**

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**Module**

**10.0 courses:**

0.5 course: Biochemistry 2280A.

2.5 **2.0** courses: Biology 2290F/G, 2382B, ~~2486A~~, 2581B, 3596A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

1.0 course: Chemistry 2213A/B and 2223B.

1.5 courses: Biochemistry 3380G, 3381A, 3382B.

~~0.5~~ **1.0** course from: Biology 3594A, 3595A, 3597A/B, 3598A/B.

0.5 course from: Biology 3466B, 3592A, 3593B.

1.5 courses from: Biology 4289A/B, 4510F/G, 4540G, 4560B, 4561F, 4562B, 4970F/G, Microbiology and Immunology 4700B.

1.0 course: Biochemistry 4410A and 4420A or the former 4420B.

0.5 course from: Biochemistry 4435B, 4445F, 4450A, 4463G.

**Note:**

1. Biochemistry 3381A requires a minimum mark of 65% in Biochemistry 2280A, and a minimum average of 65% in Chemistry 2213A/B and 2223B.

2. Biology 3596A/B requires a minimum mark of 70% in each of Biology 2581B and 2290F/G.

Students having a minimum mark of 70% in Biochemistry 2280A will be given priority in registration for Biochemistry 3380G.

*Effective **September 1, 2013**, the Major in Biology module in the Department of Biology in the Faculty of Science will be revised.*

**MAJOR IN BIOLOGY**

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**Module**

**6.0 courses:**

0.5 course: Biochemistry 2280A.

2.5 **2.0** courses: Biology 2290F/G, 2382B, 2483A, ~~2486A~~, 2581B.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2601A/B, or the former Biology 2660A/B or 2672A/B.

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

Students may substitute Statistical Sciences 2035 or Psychology 2810 for this 0.5 course.

~~1.0~~ **1.5** additional courses at the 2200 level or above in Biology.

0.5 additional course at the 2200 level or above\* chosen from either the Department of Biology or one of the Basic Medical Sciences disciplines (see below).

Basic Medical Sciences Disciplines: Anatomy and Cell Biology, Biochemistry, Epidemiology and Biostatistics, Medical Biophysics, Microbiology and Immunology, Pathology, Physiology, and Pharmacology.

Courses in the History of Science are not included.

\*Microbiology and Immunology 2100A or Pharmacology 2060A/B may be taken to satisfy this requirement.

**Notes:**

1. If students take Statistical Sciences 2035 or Psychology 2810 instead of Biology 2244A/B or Statistical Sciences 2244A/B or the former Statistical Sciences 2122A/B, the module becomes 6.5 courses.
2. Students registered in an honors double major degree must complete a minimum of 1.0 at the 3000 level for each module.

## BIOCHEMISTRY

Effective **September 1, 2013**, the prerequisites for Biochemistry 2280A – Biochemistry and Molecular Biology, offered by the Department of Biochemistry in the Schulich School of Medicine & Dentistry, will be revised.

### Biochemistry 2280A – Biochemistry and Molecular Biology

An introduction to biochemistry with emphasis on protein structure and function, intermediary metabolism and nucleic acid structure and function.

Antirequisite(s): Biochemistry 2288A.

Prerequisite(s): Either Biology 1001A or 1201A and either Biology 1002B or 1202B, or one of the former Biology 1222 or 1223; **Chemistry 1301A/B and 1302A/B, or the former** Chemistry 1100A/B and 1200B **or 1050** ~~or one of the former Chemistry 1020, 1050 or 023; or registration in senior years of Foods and Nutrition modules.~~

3 lecture hours, 0.5 course.

Note: It is strongly recommended that a course in organic chemistry be taken previously or concurrently (e.g. Chemistry 2213A/B or 2273A).

Effective **September 1, 2013**, the prerequisites for Biochemistry 3381A, Biochemistry 3385A, Biochemistry 3386B, Biochemistry 3387G, and Biochemistry 3390A, offered by the Department of Biochemistry in the Schulich School of Medicine & Dentistry, will be revised.

### Biochemistry 3381A – Biological Macromolecules

A consideration of the structure of proteins and nucleic acids; enzymology; elements of recombinant DNA technology and related methodology.

Prerequisite(s): **Either** Biochemistry 2280A **or 2288A** with a mark of at least 65%; either Chemistry 2213A/B with a minimum mark of 65% or Chemistry 2273A with a minimum mark of 60%; either Chemistry 2223B with a minimum mark of 65% or Chemistry 2283G with a minimum mark of 60%.

3 lecture hours, 1 tutorial hour, 0.5 course.

### Biochemistry 3385A – Human Biochemistry

A course dealing with Biochemical aspects of the human condition. Topics in human disease, medical testing, and lifestyle will be considered in a clinical-case-oriented fashion. The emphasis will be on structural and metabolic issues related to carbohydrates, lipids, vitamins, minerals, nucleic acids and proteins.

Prerequisite(s): **Either** Biochemistry 2280A **or 2288A** with a mark of at least 75%.

3 lecture hours, 0.5 course.

### Biochemistry 3386B – Clinical Biochemistry

The application of biochemical and molecular principles to the analytical components used to select, evaluate and interpret tests for clinical diseases. Also included will be discussions on the specialized instruments required. Students will gain understanding of the practice of clinical biochemistry, as one of the disciplines of laboratory medicine.

Prerequisite(s): **Either** Biochemistry 2280A **or 2288A** with a mark of at least 70%.

3 lecture hours, 0.5 course.

Enrollment limited.



**Biochemistry 3387G – Clinical Biochemistry Laboratory**

This course is designed to introduce students to the methods and technologies relevant to the use of biochemistry in the diagnosis of human disease. The course will consist of laboratory exercises designed to gain experience in laboratory techniques, tutorials and rotations through selected clinical labs, and lab exercises in molecular diagnostics.

Prerequisite(s): **Either** Biochemistry 2280A **or 2288A** with a mark of at least 70%; either Chemistry 2213A/B with a minimum mark of 65% or Chemistry 2273A with a minimum mark of 60%; either Chemistry 2223B with a minimum mark of 65% or Chemistry 2283G with a minimum mark of 60%.

3 laboratory hours per week, 1 tutorial hour, 0.5 course.

Enrollment limited: Priority will be given to students enrolled in the Honors Specialization in Clinical Biochemistry with highest academic standing in the prerequisite courses.

**Biochemistry 3390A – Advanced Methods for Biochemistry**

Students will explore the chemical and physical underpinnings of biochemical phenomena by solving practical, real-world, quantitative problems. Students will learn how to answer biochemical research questions by applying advanced experimental strategies and techniques, including methods in bioinformatics and the mining of biochemical databases.

Prerequisite(s): **Either** Biochemistry 2280A **or 2288A** with a mark of at least 65%; either Chemistry 2213A/B with a minimum mark of 65% or Chemistry 2273A with a minimum mark of 60%; either Chemistry 2223B with a minimum mark of 65% or Chemistry 2283G with a minimum mark of 60%.

2 lecture hours, 1 tutorial hour, 0.5 course.

**MATHEMATICS**

Effective **September 1, 2013**, *Calculus 1100A/B – Calculus I with Fundamentals* will be withdrawn from the course offerings of the Department of Mathematics and the Department of Applied Mathematics in the Faculty of Science.

**PATHOLOGY**

Effective **September 1, 2013**, *Pathology 4200A/B – Current Concepts in the Pathogenesis of Human Diseases*, will be introduced by the Department of Pathology, Schulich School of Medicine & Dentistry, and incorporated into the Honors Specialization and Specialization modules in Pathology and Toxicology.

**Pathology 4200A/B – Current Concepts in the Pathogenesis of Human Diseases**

This course will cover current concepts in the molecular and cellular pathogenesis of selected human diseases. These will include endocrine, metabolic, neuropsychiatric, renal, cardiac and neoplastic diseases, with emphasis on defects in genes and/or the levels of hormones or growth factor receptors, cellular organelles, intracellular signaling pathways, and cellular metabolism.

Prerequisite(s): Pathology 3240A and Pathology 3245B with a mark of at least 70% in each; Physiology 3120.  
2 lecture hours, 0.5 course

**HONORS SPECIALIZATION IN PATHOLOGY AND TOXICOLOGY**

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**Module****11.0 courses:**

0.5 course: Biochemistry 2280A.

1.5 courses: Biology 2290F/G, 2382B, 2581B

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

1.0 course: Pharmacology 3620, or the former Pharmacology 3550A/B and 3560A/B.

1.0 course from: Anatomy and Cell Biology 3309, 3319.

1.0 course: Physiology 3120.

1.0 course: Pathology 3240A and 3245B with marks of at least 75% in each

0.5 course from: Biology 3316A/B, Chemistry 2272F, Epidemiology 2200A/B\*\*, Physiology 3140A, Medical Health Informatics 4100F or the former Pathology 4100F, Medical Health Informatics 4110G or the former

Pathology 4110G, Epidemiology and Biostatistics 2200A/B or the former 3330B.

1.0 course: Pathology 4400A/B, 4500B.

1.0 course from: Medical Sciences 4100F/G, Pathology 4200A/B, 4000-level courses in Pharmacology (with the exception of 4980E), the former Pathology 3900F/G.

1.5 courses: Pathology and Toxicology 4980E (Research Project = 1.5 courses).

\*\*Pending approval.

## SPECIALIZATION IN PATHOLOGY AND TOXICOLOGY

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### Module

#### 10.0 courses:

0.5 course: Biochemistry 2280A.

1.5 courses: Biology 2290F/G, 2382B, 2581B.

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B, or the former Statistical Sciences 2122A/B.

1.0 course: Pharmacology 3620, or the former Pharmacology 3550A/B and 3560A/B.

1.0 course: Physiology 3120.

1.0 course: Pathology 3240A and 3245B with marks of at least 75% in each.

1.0 course: Pathology 4400A/B, 4500B.

1.0 course in Pharmacology at the 4000 level (with the exception of Pharmacology 4980E)

2.0 courses from: Anatomy and Cell Biology 3309, 3319, Biology 3316A/B, Chemistry 2272F, Epidemiology 2200A/B\*\*, Pathology 4200A/B, Physiology 3140A, Epidemiology and Biostatistics 2200A/B or the former 3330B, the former Pathology 3900F/G.

\*\*Pending approval.

## SCIENCE

Effective **March 1, 2013**, Science 3393: Internship Work Term, Science 3394: Internship Work Term, Science 3395: Internship Work Term and Science 3396: Internship Work Term will be introduced in the Faculty of Science.

### Science 3393 – Internship Work Term

The activities, reports and other contractual obligations of a minimum 8 month internship work term recognized and approved by the Faculty of Science.

Prerequisite(s): Enrollment in Science 3391. Approval of, and acceptance into, an internship work term. 3.0 courses, Pass/Fail.

Note: (1) Since Internships are not currently available to international students, they are not permitted to register in this course; (2) This course cannot be included in the number of courses counted toward any module or program; (3) Successful completion of Science 3393 and Science 3391 will be recognized on a student's transcript

### Science 3394 – Internship Work Term

The activities, reports and other contractual obligations of a 9-12 month internship work term recognized and approved by the Faculty of Science.

Prerequisite(s): Enrollment in Science 3391. Approval of, and acceptance into, an internship work term. 3.0 courses, Pass/Fail.

Note: (1) Since Internships are not currently available to international students, they are not permitted to register in this course; (2) This course cannot be included in the number of courses counted toward any module or program; (3) Successful completion of Science 3394 and Science 3391 will be recognized on a student's transcript

### Science 3395 – Internship Work Term

The activities, reports and other contractual obligations of a 13-16 month internship work term recognized and approved by the Faculty of Science.

Prerequisite(s): Enrollment in Science 3391. Approval of, and acceptance into, an internship work term. 3.0 courses, Pass/Fail.



Note: (1) Since Internships are not currently available to international students, they are not permitted to register in this course; (2) This course cannot be included in the number of courses counted toward any module or program; (3) Successful completion of Science 3395 and Science 3391 will be recognized on a student's transcript

### **Science 3396 – Internship Work Term**

The activities, reports and other contractual obligations of a second 8-month internship work term (with a new employer) recognized and approved by the Faculty of Science.

Prerequisite(s): Enrollment in Science 3391. Approval of, and acceptance into, an internship work term.  
3.0 courses, Pass/Fail.

Note: (1) Since Internships are not currently available to international students, they are not permitted to register in this course; (2) This course cannot be included in the number of courses counted toward any module or program; (3) Successful completion of Science 3396 and Science 3391 will be recognized on a student's transcript

## **STATISTICAL AND ACTUARIAL SCIENCES**

*Effective **September 1, 2013**, Actuarial Science 4997 F/G/Z: Project in Actuarial Science, will be introduced by the Department of Statistical and Actuarial Sciences in the Faculty of Science.*

### **Actuarial Science 4997F/G/Z: Project in Actuarial Science**

The student will work on a project under faculty supervision. The project may involve an extension, or more detailed coverage, of material presented in other courses. Credit for the course will involve a written report as well as an oral presentation.

Antirequisite(s): Statistical Sciences 4998F/G/Z, Statistical Sciences 4999F/G/Z.

Prerequisite(s): Registration in the fourth year of the Honors Specialization in Actuarial Science, Statistics, or Financial Modelling. Students must have a modular course average of at least 80% and must find a faculty member to supervise the project.

0.5 course.

*Effective **September 1, 2013**, Statistical Sciences 4999F/G/Z: Project in Statistical Sciences, will be introduced by the Department of Statistical and Actuarial Sciences in the Faculty of Science.*

### **Statistical Sciences 4999F/G/Z: Project in Statistical Sciences**

The student will work on a project under faculty supervision. The project may involve an extension, or more detailed coverage, of material presented in other courses. Credit for the course will involve a written report as well as an oral presentation.

Antirequisite(s): Actuarial Science 4997F/G/Z, Statistical Sciences 4998F/G/Z.

Prerequisite(s): Registration in the fourth year of the Honors Specialization in Actuarial Science, Statistics, or Financial Modelling. Students must have a modular course average of at least 80% and must find a faculty member to supervise the project.

0.5 course.

*Effective **September 1, 2013**, Statistical Sciences 4998F/G/Z: Project in Financial Modeling, will be introduced by the Department of Statistical and Actuarial Sciences in the Faculty of Science.*

### **Statistical Sciences 4998F/G/Z: Project in Financial Modeling**

The student will work on a project under faculty supervision. The project may involve an extension, or more detailed coverage, of material presented in other courses. Credit for the course will involve a written report as well as an oral presentation.

Antirequisite(s): Actuarial Science 4997F/G/Z, Statistical Sciences 4999F/G/Z.

Prerequisite(s): Registration in the fourth year of the Honors Specialization in Actuarial Science, Statistics, or Financial Modelling. Students must have a modular course average of at least 80% and must find a faculty member to supervise the project.

0.5 course.

Effective **September 1, 2013**, *Statistical Sciences 4998F/G/Z, Statistical Sciences 4999F/G/Z, Actuarial Science 4997F/G/Z, and Applied Mathematics 4999Z*, will be added as optional courses for the Honors Specialization in Financial Modelling.

### HONORS SPECIALIZATION IN FINANCIAL MODELLING

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#### Module

##### 9.5 courses:

4.0 courses: Statistical Sciences 2857A/B or the former 2657A, Statistical Sciences 2858A/B, 2864A/B, 3520A/B or the former 4520A/B, Statistical Sciences 3657A/B, 3858A/B, 4521F/G, 4861A/B or the former 3861A/B.

1.5 courses: Actuarial Science 2553A/B, 2555A/B, 2557A/B.

3.5 courses: Calculus 2402A/B, Applied Mathematics 2503A/B, 2811B, 2813B, 3815A/B, 3613A/B, 3817A/B\*.

0.5 courses from: Applied Mathematics 4613A/B\*\*, or Applied Mathematics 4617A/B\*, **Applied Mathematics 4999Z, Statistical Sciences 4998F/G/Z, Statistical Sciences 4999F/G/Z, or Actuarial Science 4997F/G/Z.**

Calculus 2402A/B may be replaced by either (Calculus 2502A/B and Calculus 2503A/B) or (Calculus 2502A/B and Mathematics 2123A/B). When such a replacement occurs, the module will include 10.0 courses.

\* May be offered only in odd-numbered academic years.

\*\* May be offered only in even-numbered academic years.

Effective **September 1, 2013**, the Major in Applied Statistics, offered by the Department of Statistical and Actuarial Sciences, will be revised.

### MAJOR IN APPLIED STATISTICS

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#### Module

##### 6.0 courses:

3.0 courses: Statistical Sciences 2857A/B, 2858A/B, 2864A/B, 3843A/B, 3850F/G, 3859A/B.

0.5 course: Calculus 2402A/B.

0.5 course from: Biology 2290F/G, Sociology 2206A/B.

0.5 course: **Epidemiology and Biostatistics 2200A/B or the former** Epidemiology and Biostatistics 3330B.

1.0 course from: Applied Mathematics 2402A, 3615A/B, 3817A/B; Psychology 3800F/G, 3840F/G; Sociology 2236A/B, 4441A/B; Statistical Sciences 4846A/B, 4850F/G, 4853A/B, or any approved Statistics course at the 3000-level or higher.

0.5 course from: Statistical Sciences 4846A/B, 4853A/B.

Calculus 2402A/B may be replaced by either Calculus 2502A/B and 2503A/B, or Calculus 2502A/B and Mathematics 2123A/B. When such a replacement occurs, the module will include 6.5 courses.

This module can only be used in a ~~Four-Year-Degree~~ **completed in a four-year (honors or non-honors) degree.**

Effective **September 1, 2013**, the module requirements for the Honors Specialization in Statistics, offered by the Department of Statistical and Actuarial Sciences in the Faculty of Science, will be revised.

### HONORS SPECIALIZATION IN STATISTICS

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#### Module

##### 9.0 courses:

5.5 courses: Statistical Sciences 2857A/B or the former 2657A, Statistical Sciences 2858A/B, 2864A/B, 3657A/B, 3843A/B, 3858A/B, 3859A/B, 3850F/G, 4846A/B or 4853A/B, 4850F/G, 4861A/B.

1.0 courses: Calculus 2402A/B, Applied Mathematics 2503A/B.

1.5 courses from: Actuarial Science 3424A/B, 4824A/B, 4823A/B, one of Statistical Sciences 4846A/B or 4853A/B.

1.0 courses from: Actuarial Science 3424A/B, 4824A/B, 4823A/B, Applied Mathematics 3815A/B, 3817A/B, 3613A/B, Statistical Sciences 3520A/B, 4521F/G, ~~4853A/B~~, any ~~other 0.5 course in~~ Statistical Sciences **course** at the 4000 level ~~not already taken~~, or any ~~other 0.5 course~~ at the 4000 level approved by the Department of Statistical and Actuarial Sciences.

Calculus 2402A/B may be replaced by either (Calculus 2502A/B and Calculus 2503A/B) or (Calculus 2502A/B and Mathematics 2123A/B). When such a replacement occurs, the module will include 9.5 courses.

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## FACULTY OF SOCIAL SCIENCE

### *POLITICAL SCIENCE*

*Effective September 1, 2013, the following courses will be withdrawn in the Faculty of Social Science.*

**Political Science 2204E:** Socialist Revolution in Theory and Practice  
**Political Science 2234E:** Comparative Provincial Politics  
**Political Science 2235E:** Politics of the Environment  
**Political Science 2240E:** Introduction to Third World Politics  
**Political Science 3202F/G:** Gender and the Politics of Social Policy  
**Political Science 3328F/G:** Political Development in the Muslim World  
**Political Science 3342F/G:** The New Europe  
**Political Science 3346F/G:** International Justice  
**Political Science 3351E:** Theories of the State  
**Political Science 3352E:** Advanced International Politics  
**Political Science 3353E:** Canadian Defence and Security Policy  
**Political Science 3373F/G:** The Politics of the Atlantic Provinces  
**Political Science 3387F/G:** Current Research in Public Policy  
**Political Science 4413F/G:** Selected Topics in Political Science  
**Political Science 4414F/G:** Selected Topics in Political Science  
**Political Science 4425F/G:** Indigenous Politics in Kanata  
**Political Science 4440F/G:** Dilemmas of the Post Communist World  
**Political Science 4479E:** Honors Seminar

*Effective September 1, 2013, the following courses be introduced in the Faculty of Social Science.*

#### **Political Science 2140A/B: Globalization: Competition and Cooperation**

This course critically discusses the history and development of globalization and the cultural, social, religious and political impacts of an interconnected world. Topics include: global financial crisis and governance; global production and trade; rising fundamentalism and religious backlash; cultural homogeneity and westernization; global social movements and protest; global environmental issues.

Antirequisite(s): Political Science 2257; Political Science 2191A/B if taken in 2010-11 or 2011-12  
 2 hours, 0.5 course

#### **Political Science 4205F/G: Cognitive Dimensions of Politics**

The objective of this course is to introduce political science students to key ideas in cognitive science that have a bearing on the ways in which we study and explain political phenomena.

Prerequisite(s): Political Science 2237E or Political Science 2245E  
 Antirequisite(s): The former Political Science 4414F/G if taken in 2010-11 or 2011-12.  
 2 hours, 0.5 course

#### **Political Science 4206F/G: Theories of Global Justice**

A seminar on the main approaches to, and debates about, issues of global justice in contemporary political theory. Topics may include cosmopolitan ethics, the causes of global inequality, social and economic rights, and ideas of global citizenship and national responsibility.

Prerequisite(s): Political Science 2237E  
 Antirequisite(s): Political Science 3396F/G if taken in 2004-05; Political Science 3397F/G if taken in 2006-07; the former Political Science 3346E; the former Political Science 4463F/G if taken in 2010-11 or 2011-12.  
 2 hours, 0.5 course

**SOCIOLOGY**

Effective **September 1, 2013**, the prerequisite list for Sociology 2275A/B, 2205A/B, and 2206A/B, will be revised in the Faculty of Social Science.

**Sociology 2275A/B – Advertising, Media and Society**

Course description, antirequisites: No change.

Prerequisite(s): ~~Sociology 1020 or 1021E~~ and Sociology 2172A/B and one of: Sociology 1020, 1021E, 1025A/B, 1026F/G, 1027A/B.

3 lecture hours, 0.5 course.

**Sociology 2205A/B – Statistics for Sociology**

Course description, antirequisites: No change.

Prerequisite(s): At least 60% average in 1.0 from: Sociology 1020, ~~or~~ 1021E, 1025A/B, 1026F/G, 1027A/B.

**Sociology 2206A/B – Research Methods in Sociology**

Course description, antirequisites: No change.

Prerequisite(s): At least 60% average in 1.0 from: Sociology 1020, ~~or~~ 1021E, 1025A/B, 1026F/G, 1027A/B.

**BRESCIA UNIVERSITY COLLEGE****FOODS AND NUTRITION**

Effective **September 1, 2013**, FN 4422A/B: *Financial Management and Control for Foods and Nutrition* be introduced by Brescia University College.

**Food and Nutrition 4422A/B – Financial Management and Control for Foods and Nutrition**

This course is designed to develop financial management and control competencies in individuals who will be responsible for managing their own departments in a variety of contexts including foodservice establishments, food production companies, government agencies and private practices. Students will be expected to apply the concepts in case-based, decision-focused situations.

Prerequisite(s): Business 1220E, Foods and Nutrition 3348A/B, Human Ecology 3349A/B or year 4 in the Foods and Nutrition programs or permission of the Division of Food and Nutritional Sciences.

3 lecture hours, 0.5 course (Brescia)

**KING'S UNIVERSITY COLLEGE****RELIGIOUS STUDIES**

Effective **September 1, 2013**, Religious Studies 2101A/B will be revised at King's University College to change the title and some of the course description.

**Religious Studies 2101A/B – Introduction to the Hebrew Bible I**

An introduction to the Hebrew Bible as a living text and a window into the ancient Israelite and early Jewish worlds with a focus on the Old Testament/Hebrew Bible. Who were the authors? What did they believe about God, creation, human history, and the problem of evil? What are contemporary scholars saying about the Hebrew Scriptures? What are the challenges of reading the Bible today?

Antirequisite(s): Religious Studies 2164F/G, 2201F/G, the former Religious Studies 021E.

3 hours, 0.5 course.

(King's)

**DAP UPDATE: MINOR CHANGES**

**RICHARD IVEY SCHOOL OF BUSINESS**

Effective **September 1, 2013**, the title of Business Administration 4567 be revised.

**Business Administration 4567A/B** – Investment **Wealth** Management

**FACULTY OF SCIENCE**

Effective **September 1, 2013**, Calculus 1100A/B will be changed to “or the former Calculus 1100A/B” in the modules listed below.

Honors Specialization in Applied Mathematics  
Honors Specialization in Mathematical Sciences  
Honors Specialization in Financial Modelling  
Major in Applied Mathematics  
Major in Applied Mathematical Methods  
Major in Scientific Computing and Numerical Methods  
Major in Theoretical Physics  
Major in Financial Modelling  
Specialization in Applied Mathematics  
Minor in Applied Mathematics  
Minor in Mathematical and Numerical Methods  
Honors Specialization in Chemistry  
Honors Earth Sciences Programs for Professional Registration  
Honors Specialization in Geophysics  
Honors Specialization in Geology and Biology  
Honors Specialization in Environmental Geoscience  
Specialization in Geology  
Specialization in Geophysics  
Specialization in Geology and Biology  
Specialization in Environmental Geoscience  
Minor in Geophysics  
Honors Specialization in Mathematics  
Honors Specialization in Mathematics in Society  
Major in Mathematics  
Specialization in Mathematics  
Honors Specialization in Physics  
Honors Specialization in Astrophysics  
Honors Specialization in Medical Physics  
Honors Specialization in Materials Science  
Honors Specialization in Planetary Science  
Major in Physics  
Major in Astrophysics  
Major in Medical Physics  
Major in Materials Science  
Major in Planetary Science  
Specialization in Physics  
Specialization in Astrophysics  
Specialization in Medical Physics  
Specialization in Materials Science  
Specialization in Planetary Science  
Minor in Physics  
Minor in Materials Science

Minor in Planetary Science  
Honors Specialization in Actuarial Science  
Honors Specialization in Statistics  
Honors Specialization in Financial Modelling  
Major in Actuarial Science  
Major in Financial Modelling  
Major in Applied Statistics  
Honors Specialization in Biochemistry and Chemistry  
Major in Chemistry  
Specialization in Chemistry  
Minor in Chemistry  
Minor in Computer Algebra  
Specialization in Mathematics in Society  
Minor in Mathematics  
Honors Specialization in Geology  
Honors Specialization in Biology  
Honors Specialization in Genetics  
Major in Biology  
Major in Genetics  
Specialization in Biology  
Honors Specialization in Animal Behaviour  
Honors Specialization in Genetics and Biochemistry  
Major in Ecosystem Health  
Honors Specialization in Computer Science  
Honors Specialization in Information Systems  
Major in Computer Science  
Specialization in Computer Science  
Minor in Computer Science  
Combined Honors BSc Computer Science/Juris Doctor (JD) Program  
Minor in High Performance Computing  
Honors Specialization in Bioinformatics