

The following proposals, received on DAP between December 1-15, 2017, have been approved.
For more information on the DAP process, [see the Secretariat's website](#).

FACULTY OF ARTS AND HUMANITIES and HURON UNIVERSITY COLLEGE

PHILOSOPHY

Effective **September 1, 2018**, the following course be revised.

Philosophy 3601F/G – METAPHYSICS

Prerequisite(s): ~~Philosophy 2500F/G~~.

FACULTY OF MUSIC

Effective **September 1, 2018**, the Admission Requirements for the following module be revised.

MAJOR IN POPULAR MUSIC STUDIES

Admission Requirements

Recommendation of the Faculty on the basis of an interview. Completion of first-year requirements, including a mark of at least 60% in each of the following courses: Music 1649A/B, Music 1650A/B, Music 1710F/G, Music 1730A/B, and 1.0 course from: English 1020E, English 1022E, English 1027F/G, English 1028F/G, ~~English 1035E, English 1036E~~, Film Studies 1020E, Film Studies 1022, **World Literatures and Cultures 1030**, the former CLC 1020.

RICHARD IVEY SCHOOL OF BUSINESS

Effective **September 1, 2018**, the following course be revised.

Business Administration 2295F/G - BUSINESS FOR SCIENCE STUDENTS **BASICS FOR THE SCIENCES**

~~The This~~ This course is designed to provide students pursuing modules offered by the ~~Faculty~~ **Faculties** of Science, **Health Sciences or** the Schulich School of Medicine and Dentistry with an understanding of how business operates and how the individual employee fits into the larger business organization. Students are introduced to the basics of finance, **marketing and** organizational behaviour ~~and intellectual property~~ **through Ivey Business School's case method.**

Antirequisite(s): Business Administration 1220E, **Business for Engineers 1299E**, ~~Business Administration 2257 (unless Business Administration 2295F/G taken first)~~, Business Administration 2299E.

Prerequisite(s): Registration in a Major, Specialization or Honors Specialization in the **Faculties of Science, Health Sciences or the Schulich School of Medicine and Dentistry.** ~~Faculty of Science or the Schulich School of Medicine and Dentistry. Interested students in Health Science may take this course with special permission by contacting the Business Administration 2295F/G office.~~

Extra Information: 3 hours. Restricted to students in Years ~~3 and 4~~ **2 and above.**

FACULTY OF SCIENCE and SCHULICH SCHOOL OF MEDICINE & DENTISTRY

BIOLOGY

Effective **September 1, 2018**, the following courses be withdrawn.

Biology 2001A/B - GENETICS IN EVERYDAY LIFE
Biology 2241Z - BIOLOGY OF INVERTEBRATES
Biology 3332A/B – PARASITOLOGY
Biology 4243F/G - POLITICAL BIOLOGY
Biology 4930F/G - SEMINAR IN CELL BIOLOGY
Biology 4931F/G - SEMINAR IN PHYSIOLOGY

Effective **September 1, 2018**, the following courses be revised.

Biology 3229F/G - ANIMAL DIVERSITY: ANCESTRAL VERTEBRATES TO JELLYFISH

Antirequisite(s): The former Biology 2240F/G, **the former** Biology 2241Z.

Prerequisite(s): At least 1.0 course from: Biology 2290F/G, Biology 2382A/B, Biology 2483A/B, Biology 2581A/B, Biology 2601A/B and registration in third or fourth year.

Biology 4920F/G - SEMINAR IN BIOLOGY

Antirequisite(s): ~~Biology 4930F/G, Biology 4931F/G, Biology 4944F/G, Biology 4950F/G, **the former Biology 4930F/G, the former Biology 4931F/G** or the former Biology 4941E, the former Biology 4946E, the former Biology 4943E.~~

Prerequisite(s): Completion of at least 1.5 Biology courses at the 3000 level or above and registration in Year 4 of an Honors Specialization module offered by the Department of Biology.

Biology 4944F/G - SEMINAR IN ECOLOGY AND EVOLUTION

Antirequisite(s): Biology 4920F/G, ~~Biology 4930F/G, Biology 4931F/G, Biology 4950F/G, **the former Biology 4930F/G, the former Biology 4931F/G** or the former Biology 4941E, the former Biology 4943E, the former Biology 4946E.~~

Prerequisite(s): Completion of at least 1.5 Biology courses at the 3000 level or above and registration in Year 4 of an Honors Specialization module offered by the Department of Biology.

Biology 4950F/G - SEMINAR IN GENETICS

Antirequisite(s): Biology 4920F/G, ~~Biology 4930F/G, Biology 4931F/G, Biology 4944F/G, **the former Biology 4930F/G, the former Biology 4931F/G** or the former Biology 4941E, the former Biology 4943E, the former Biology 4946E.~~

Prerequisite(s): A minimum grade of 70% in Biology 3596A/B and enrollment in year 4 of the Honors Specialization in Genetics, or permission of the Genetics Undergraduate Coordinator.

Effective **September 1, 2018**, the following modules be revised.

HONORS SPECIALIZATION IN BIOLOGY

Module

10.0 courses:

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

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2601A/B.

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.

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 any 4000-level Biology course.

0.5 courses from the following: Biology 4920F/G, ~~Biology 4930F/G, Biology 4931F/G~~, Biology 4944F/G, **the former Biology 4930F/G, or the former Biology 4931F/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.

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

Notes:

1. Many 4000-level Biology courses require the completion of 1.5 Biology courses at the 3000-level or above.
2. Students with specific Biology interests should visit the departmental website for course recommendations in various disciplines or contact a Biology Academic Counsellor.

HONORS SPECIALIZATION IN BIODIVERSITY AND CONSERVATION

Module

10.5 courses

2.5 courses: Biology 2483A/B, Biology 2601A/B, Biology 2581A/B, Biology 2290F/G, Biology 2382A/B.

0.5 course: Biochemistry 2280A.

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.

0.5 course from: Chemistry 2213A/B, Chemistry 2210A/B.

2.0 courses: Biology 3484A/B, Biology 3445F/G, Biology 3440A/B, Biology 3442F/G.

0.5 course from: Biology 3220Z, Biology 3403A/B.

0.5 course from: Biology 3218F/G, Biology 3404F/G, Biology 3229F/G, Biology 4420A/B.

0.5 course from: Biology 3444F/G, Biology 3466A/B.

0.5 course from: Biology 4405F/G, Biology 4223F/G, Geography 3343A/B.

0.5 course: Biology 4289A/B.

1.0 courses: Biology 4412F/G, Biology 4410F/G.

1.0 course from: Biology 3435F/G, Biology 3436F/G, Biology 3446A/B, Biology 3475A/B, Biology 4200A/B, Biology 4230A/B, ~~Biology 4243F/G~~, Biology 4259F/G, Biology 4944F/G Biology 4970F/G, Biology 4999E, Geography 2133A/B, Geography 3352A/B, Geography 3441F/G, Geography 3445F/G, **the former Biology 4243F/G** or courses above if not already taken.

Notes:

1. If student takes Biology 4999E, this module becomes 11.0 courses.
2. Some module courses require prerequisite offerings that are not themselves part of the module.

MAJOR IN ECOSYSTEM HEALTH

Module

6.0 courses:

2.0 courses: Biology 2290F/G, Biology 2483A/B, Biology 2485A/B, Biology 3484A/B, Biology 4218A/B.

0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.

1.0 courses from: Biology 3442F/G, Chemistry 2210A/B, Environmental Science 3300F/G.

1.0 courses from: Biology 4223F/G, ~~Biology 4243F/G~~, Geography 2133A/B, Microbiology and Immunology 2500A/B, Microbiology and Immunology 3500B.

0.5 course from: Geography 2430A/B, Geography 3431A/B, Pathology 3500*, Pathology 4400A/B, Sociology 2246A/B, **the former Biology 4243F/G**.

1.0 course: Biology 4230A/B, Biology 4405F/G.

*If students take Pathology 3500, the module becomes 6.5 courses.

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

CHEMISTRY

Effective **September 1, 2018**, the following course be introduced.

Chemistry 4415B – Applications of Synthetic Biology and Chemical Genetics in Medicine

Short title: APPL SYNTHETIC BIO & CHEM GEN

This course will explore how metabolic pathways are currently being re-engineered in microorganisms to produce drugs that are otherwise difficult to manufacture. We will also investigate how drug targets are being identified using newly developed chemical genetic screening methods. The impact of both approaches on medicine will be evaluated.

Antirequisite(s): Biochemistry 4415B.

Prerequisite(s): Either (Biochemistry 3381A and Biochemistry 3382A) or (Biochemistry 2280A and one of Chemistry 3393A/B or Chemistry 4493A/B).

Extra Information: 2 lecture hours per week, 1 hr bi-weekly tutorial session, 0.5 course.

Effective **September 1, 2018**, the following modules be revised.

HONORS SPECIALIZATION IN CHEMISTRY

Module

10.0 courses:

6.0 courses: Chemistry 2271A, Chemistry 2272F, Chemistry 2273A, Chemistry 2374A, Chemistry 2281G, Chemistry 2283G, Chemistry 2384B, Chemistry 3370A/B, Chemistry 3371F, Chemistry 3372F/G, Chemistry 3373F, Chemistry 3374A/B.

0.5 course from: Biochemistry 2280A, Chemistry 3391A/B, Chemistry 4493A/B.

2.0 courses (at least 1.0 of which must be at the 4000 level, or 0.5 course at the 4000 level if Chemistry 4493A/B is chosen from the list above) from: Chemistry 3300F/G, Chemistry 3320A/B, Chemistry 3330F/G, Chemistry 3364A/B, Chemistry 3391A/B, Chemistry 3393A/B, Chemistry 4400A/B, Chemistry 4404A/B, **Chemistry 4415B**, Chemistry 4441A/B, Chemistry 4444A/B, Chemistry 4471A/B, Chemistry 4472A/B, Chemistry 4473A/B, Chemistry 4474A/B, Chemistry 4481A/B, Chemistry 4483A/B, Chemistry 4493A/B, Chemistry 4494A/B, the former Chemistry 3384F/G, the former Chemistry 4466B, Applied Mathematics 2402A, Applied Mathematics 2811B, Applied Mathematics 2814F/G, Calculus 2302A/B, Calculus 2303A/B, or the former Applied Mathematics 2813A/B.

1.5 course: Chemistry 4491E.

SPECIALIZATION IN CHEMISTRY

Module

10.0 courses:

6.0 courses: Chemistry 2271A, Chemistry 2272F, Chemistry 2273A, Chemistry 2374A, Chemistry 2281G, Chemistry 2283G, Chemistry 2384B, Chemistry 3370A/B, Chemistry 3371F, Chemistry 3372F/G, Chemistry 3373F, Chemistry 3374A/B.

0.5 course from: Biochemistry 2280A, Chemistry 3391A/B, Chemistry 4493A/B.

2.0 courses (at least 1.0 of which must be at the 4000 level, or 0.5 course at the 4000 level if Chemistry 4493A/B is chosen from the list above) from: Chemistry 3300F/G, Chemistry 3320A/B, Chemistry 3330F/G, Chemistry 3364A/B, Chemistry 3391A/B, Chemistry 3393A/B, Chemistry 4400A/B, Chemistry 4404A/B, **Chemistry 4415B**, Chemistry 4441A/B, Chemistry 4444A/B, Chemistry 4471A/B, Chemistry 4472A/B, Chemistry 4473A/B, Chemistry 4474A/B, Chemistry 4481A/B, Chemistry 4483A/B, Chemistry 4493A/B, Chemistry 4494A/B, the former Chemistry 3384F/G, the former Chemistry 4466B, Applied Mathematics 2402A, Applied Mathematics 2811B, Applied Mathematics 2814F/G, Calculus 2302A/B, Calculus 2303A/B, or the former Applied Mathematics 2813A/B.

1.5 course: Chemistry 4491E.

COMPUTER SCIENCE

Effective **September 1, 2018**, the following courses be introduced.

Computer Science 4416A/B - Data Science II

Students will learn to develop and extend data science methods in order to solve new problems. Approaches covered will include convex loss/regularization, graphical models, and neural networks.

Prerequisite(s): Computer Science 4414A/B or Computer Science 4437A/B if taken during Fall/Winter 2016 or 2017.

Extra Information: 3 lecture hours, 0.5 course.

Computer Science 4417A/B - Unstructured Data

Management and analysis of unstructured data, with a focus on text data, for example transaction logs, news text, article abstracts, and microblogs. Overview of unstructured image, audio, and video data. Hands-on experience with modern distributed data management and analysis infrastructure.

Antirequisite(s): Computer Science 4433A/B/Y if taken during Fall/Winter 2017 or 2018.

Prerequisite(s): Computer Science 3319A/B and (Computer Science 4414A/B or Computer Science 4437A/B if taken during Fall/Winter 2016 or 2017).

Extra Information: 3 lecture hours, 0.5 course.

Computer Science 4418A/B - Introduction to Visual Analytics

Short title: *Intro to Visual Analytics*

Students will learn how to conceptualize and design systems that integrate data visualization, interactive machine learning, and human-data interaction to support complex data-driven analytical tasks and activities which humans encounter in different fields. Visual analytics concepts and components will be studied in the context of human-centred computing.

Prerequisite(s): Computer Science 4414A/B or Computer Science 4437A/B if taken during Fall/Winter 2016 or 2017.

Pre- or Corequisite(s): Computer Science 4416A/B is recommended.

Extra Information: 3 lecture hours, 0.5 course.

Effective **September 1, 2018**, the following modules be revised.

HONORS SPECIALIZATION IN BIOINFORMATICS

Admission Requirements

Completion of first-year requirements with no failures. Students must have an average of at least 70% in 4.0 principal courses, with no mark in these principal courses below 60%, including:

Biology 1001A and Biology 1002B; Chemistry 1301A/B and Chemistry 1302A/B, or the former Chemistry 1100A/B and the former Chemistry 1200B; Computer Science 1025A/B or Computer Science 1026A/B or Engineering Science 1036A/B; Computer Science 1027A/B or Computer Science 1037A/B, in either case with a mark of at least 65%; 1.0 course from: Applied Mathematics 1201A/B or Applied Mathematics 1413, Calculus 1000A/B, Calculus 1301A/B, Calculus 1500A/B or Calculus 1501A/B, Mathematics 1600A/B, ~~or the former Calculus 1100A/B, the former Linear Algebra 1600A/B.~~

Note: Biology 1201A with a mark of at least 70% may be used in place of Biology 1001A, and Biology 1202B with a mark of at least 70% may be used in place of Biology 1002B.

Students taking this module must see a Departmental Counsellor in Computer Science for advice concerning the order in which courses have to be taken.

Module

12.0 courses

1.0 course: Biochemistry 2280A, Biology 2581A/B.

0.5 course: Chemistry 2213A/B.

6.0 courses: Computer Science 2208A/B, Computer Science 2209A/B, Computer Science 2210A/B, Computer Science 2211A/B, Computer Science 2212A/B/Y, Computer Science 3305A/B, Computer Science 3319A/B, Computer Science 3331A/B, Computer Science 3340A/B, Computer Science 4460Z, Computer Science 4462A/B, Computer Science 4463A/B.

0.5 course from: Computer Science 2214A/B, Mathematics 2155F/G or the former Mathematics 2155A/B.

0.5 course from: Computer Science 3307A/B/Y, Computer Science 3346A/B.

0.5 course from: Computer Science 4461A/B, the former Biochemistry 4445F.

0.5 course from: Biology 2290F/G, Chemistry 2223B.

0.5 course from: Biochemistry 3381A, Biology 3592A/B, Biology 3593A/B.

1.0 course from: Computer Science 4411A/B, Computer Science 4412A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B**, Computer Science 4432A/B, Computer Science 4445A/B.

0.5 additional course from: Mathematics 2156A/B, Computer Science courses at the 3000 level or above.

0.5 course from: Statistical Sciences 2141A/B, Statistical Sciences 2244A/B or Statistical Sciences 2857A/B, Biology 2244A/B, **the former** Statistical Sciences 2657A.

*Chemistry 2213A/B and Chemistry 2223B may be replaced in the module by Chemistry 2273A and Chemistry 2283G.

HONORS SPECIALIZATION IN INFORMATION SYSTEMS

Admission Requirements

Completion of first-year requirements with no failures. Students must have an average of at least 70% in 3.0 principal courses, with no mark in these principal courses below 60%, including:

Computer Science 1025A/B or Computer Science 1026A/B or Engineering Science 1036A/B; Computer Science 1027A/B or Computer Science 1037A/B (in either case with a mark of at least 65%);

1.0 course from: Applied Mathematics 1201A/B or Applied Mathematics 1413, Calculus 1000A/B, Calculus 1301A/B, Calculus 1500A/B or Calculus 1501A/B, Mathematics 1600A/B, ~~or the former Calculus 1100A/B, the former Linear Algebra 1600A/B.~~

Module

9.0 courses

6.0 courses: Computer Science 2208A/B, Computer Science 2209A/B, Computer Science 2210A/B, Computer Science 2211A/B, Computer Science 2212A/B/Y, Computer Science 3305A/B, Computer Science 3307A/B/Y, Computer Science 3319A/B, Computer Science 3331A/B*, Computer Science 3340A/B, Computer Science 3357A/B, Computer Science 4490Z.

0.5 course from: Computer Science 2214A/B, Mathematics 2155F/G or the former Mathematics 2155A/B.

0.5 course:** Writing 2101F/G, Writing 2111F/G, Writing 2125F/G, Writing 2131F/G.

0.5 course from**: Biology 2244A/B, Statistical Sciences 2141A/B, Statistical Sciences 2244A/B, Statistical Sciences 2857A/B, the former Statistical Sciences 2657A.

1.0 course from: Computer Science 4402A/B, Computer Science 4411A/B, Computer Science 4412A/B, Computer Science 4413A/B, Computer Science 4414A/B, Computer Science 4415A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B**, Computer Science 4457A/B/Y, Computer Science 4471A/B, Computer Science 4473A/B, Mathematics 3159A/B.

0.5 additional course from: Mathematics 2156A/B, Computer science courses at the 3000 level or above.

* Students in this module who are registered in the combined Undergraduate Program in Business Administration (HBA) are allowed to replace Computer Science 3331A/B with 0.5 course from Computer Science 3325A/B, Computer Science 3326F/G, Computer Science 3346A/B, Computer Science 3377A/B, Computer Science 4402A/B, Computer Science 4411A/B, Computer Science 4412A/B, Computer Science 4413A/B, Computer Science 4414A/B, Computer Science 4415A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B**, Computer Science 4457A/B/Y, Computer Science 4471A/B, Computer Science 4473A/B, Science 3377A/B, Mathematics 3159A/B.

** Students in this module who are registered in the combined Undergraduate Program in Business Administration (HBA) may replace the 0.5 Writing and 0.5 Statistical Sciences/Biology requirements with 1.0 additional course from Computer Science 3325A/B, Computer Science 3326F/G, Computer Science 3346A/B, Computer Science 3377A/B, Computer Science 4402A/B, Computer Science 4411A/B, Computer Science 4412A/B, Computer Science 4413A/B, Computer Science 4414A/B, Computer Science 4415A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B**, Computer Science 4457A/B/Y, Computer Science 4471A/B, Computer Science 4473A/B, Science 3377A/B, Mathematics 3159A/B.

MINOR IN APPLICATIONS OF COMPUTER SCIENCE

Module

4.0 courses:

3.0 courses from: Computer Science 3319A/B, Computer Science 3346A/B, Computer Science 3357A/B, Computer Science 3374A/B, Computer Science 3388A/B, Computer Science 4402A/B, Computer Science 4411A/B, Computer Science 4412A/B, Computer Science 4413A/B, Computer Science 4414A/B, Computer Science 4415A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B**, Computer Science 4442A/B, Computer Science 4457A/B/Y, Computer Science 4472A/B, Computer Science 4474A/B, Computer Science 4475A/B, Computer Science 4476A/B/Y, Computer Science 4478A/B/Y, Computer Science 4481A/B, Computer Science 4482A/B, Computer Science 4483A/B, Computer Science 4487A/B, Computer Science 4488A/B, Mathematics 3159A/B or the former Computer Science 3374A/B.

1.0 course from: Computer Science courses at the 3000 level or above; courses at the 2100 level or above in Applied Mathematics, Calculus, Mathematics, Statistical Sciences; courses numbered 2200 or above in Writing; Applied Mathematics 2402A, Philosophy 2720F/G, Science 3377A/B.

MINOR IN GAME DEVELOPMENT

Admission Requirements

Registration in either the Honors Specialization, the Major, or the Specialization in Computer Science and either Mathematics 1600A/B or the former Linear Algebra 1600A/B or permission of the department.

Module

These courses must not already be included in the Honors Specialization, the Major or the Specialization in Computer Science.

4.0 courses:

3.0 courses: Computer Science 3346A/B, Computer Science 3388A/B, Computer Science 4474A/B, Computer Science 4480Y, Computer Science 4482A/B, Computer Science 4483A/B.

0.5 course from: Computer Science 3357A/B, Computer Science 3374A/B, Computer Science 3377A/B, Computer Science 4402A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B,** Computer Science 4442A/B, Computer Science 4457A/B/Y, Computer Science 4471A/B, Computer Science 4472A/B, Computer Science 4473A/B, Computer Science 4481A/B, Computer Science 4487A/B, Computer Science 4488A/B, Science 3377A/B.

0.5 course from: Computer Science courses at the 3000 level or above; courses at the 2100 level or above in Applied Mathematics, Calculus, Differential Equations, Mathematics, Music, Physics, Statistical Sciences; courses numbered 2200 or higher in Visual Arts, Writing. Students in the Major or the Specialization in Computer Science must take Computer Science 3340A/B to satisfy this requirement, unless that course has been counted already toward the Major or Specialization.

MINOR IN THEORETICAL COMPUTER SCIENCE

Module

4.0 courses

These courses must not have already been included in the Honors Specialization in Computer Science.

2.0 courses from: Computer Science 4413A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B,** Computer Science 4432A/B, Computer Science 4444A/B, Computer Science 4445A/B, Computer Science 4447A/B, Computer Science 4462A/B, Computer Science 4463A/B, Computer Science 4487A/B, Mathematics 3159A/B.

1.0 additional Computer Science course at the 3000 level or above.

1.0 course from: Computer Science courses at the 3000 level or above; courses at the 2100 level or above in Applied Mathematics, Calculus, Mathematics, Statistical Sciences; courses numbered 2200 or above in Writing; Applied Mathematics 2402A, Philosophy 2720F/G; Science 3377A/B.

INTEGRATED SCIENCE

Effective **September 1, 2018**, the following module be revised.

HONORS SPECIALIZATION IN INTEGRATED SCIENCE WITH GENETICS

Module

13.0 courses

2.5 courses: Integrated Science 2001F*, Integrated Science 2002B*, Integrated Science 3001F/G**, Integrated Science 3002A/B**, Integrated Science 4001A/B***.

0.5 course from*: Philosophy 2033A/B, Philosophy 2035F/G, Philosophy 2078F/G, Philosophy 2370F/G.

0.5 course: Science 3377A/B**.

1.5 course: Integrated Science 4999E***.

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

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B

0.5 course: Biochemistry 2280A.

0.5 course: Biology 3596A/B.

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

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

1.0 course from: Biology 4289A/B, Biology 4540F/G, Biology 4560A/B, Biology 4561F/G, Biology 4562A/B.

4.0 0.5 course: Biology 4583F/G or the former Biology 4582.

4.0 1.5 additional courses from Biology listed above but not already taken.

Notes:

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

2. Biology 3595A/B requires a minimum mark of 70% in Biology 2581A/B.

Note:

* indicates courses taken in Second Year of Program

** indicates courses taken in Third Year of Program

*** indicates courses taken in Fourth Year of Program

MEDICAL HEALTH INFORMATICS

*Effective **September 1, 2018**, the following module be revised.*

HONORS SPECIALIZATION IN MEDICAL HEALTH INFORMATICS

Module

11.0 courses:

0.5 course: Biochemistry 2280A.

1.0 course from: Biology 2290F/G, Biology 2382A/B, Biology 2581A/B.

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B.

1.0 course: Pathology 3500, or the former Pathology 3240A and the former Pathology 3245B.

1.0 course: Computer Science 2120A/B, Computer Science 2121A/B.

1.0 course: Computer Science 3120A/B, Computer Science 3121A/B.

1.0 course from: Computer Science 4411A/B, Computer Science 4412A/B, Computer Science 4415A/B, **Computer Science 4416A/B, Computer Science 4417A/B, Computer Science 4418A/B,** Computer Science 4442A/B.

1.0 course: Physiology 3120.

1.0 course from: Anatomy and Cell Biology 3309, Anatomy and Cell Biology 3319, Biochemistry 3385A, Biochemistry 3386B, Epidemiology 2200A/B, Medical Biophysics 3503G, Microbiology and Immunology 2500A/B, Pharmacology 3620, or the former Epidemiology and Biostatistics 2200A/B.

1.0 course: Medical Health Informatics 4100F, Medical Health Informatics 4110G.

1.5 courses: Medical Health Informatics 4980E (Research Project = 1.5 courses).

HISTORY

Effective **September 1, 2018**, the Admission Requirements for the following modules be revised.

HONORS SPECIALIZATION IN HISTORY

Admission Requirements

Completion of first-year requirements with no failures. Students must have an average of at least 70% in 3.0 principal courses, including 1.0 course from History 1201E, History 1401E, **History 1404E**, History 1601E, History 1801E, History 1803E, History 1805E or the former History 1403E, ~~the former History 1701E~~ and 2.0 additional courses, with no mark in these principal courses below 60%.

MAJOR IN HISTORY

Admission Requirements

Completion of first year requirements, including 1.0 course from History 1201E, History 1401E, **History 1404E**, History 1601E, History 1801E, History 1803E, History 1805E or the former History 1403E ~~the former History 1701E~~ with a minimum mark of 60%.

SPECIALIZATION IN HISTORY

Admission Requirements

Completion of first year requirements, including 1.0 course from History 1201E, History 1401E, **History 1404E**, History 1601E, History 1801E, History 1803E, History 1805E, the former History 1403E ~~the former History 1701E~~ with a minimum mark of 60%.

MINOR IN HISTORY

Admission Requirements

Completion of first year requirements, including 1.0 course from History 1201E, History 1401E, **History 1404E**, History 1601E, History 1801E, History 1803E, History 1805E or the former History 1403E ~~the former History 1701E~~ with a minimum mark of 60%.

BRESCIA UNIVERSITY COLLEGE and KING'S UNIVERSITY COLLEGE

SOCIOLOGY

Effective **September 1, 2018**, the following course be withdrawn.

Sociology 2143E - MINORITY GROUPS

Effective **September 1, 2018**, the following course be introduced.

Sociology 2200E - Sociology of 'Race' and Racism

This course will introduce students to a sociological critique of 'race' and an exploration of the multiple ways racism operates. Using the theoretical lenses of identity, culture, power and intersectionality, students will analyze historical and contemporary issues and events in Canada, the US, and elsewhere in the world.

Antirequisite: Sociology 2143E.

Prerequisite: 1.0 from Sociology courses at the 1000 level.

Extra Information: 3 hours. 1.0 course.

(Brescia, King's)

KING'S UNIVERSITY COLLEGE

CHILDHOOD AND SOCIAL INSTITUTIONS

Effective **September 1, 2018**, the following courses be withdrawn.

Childhood and Social Institutions 2250F/G - CHILDHOOD, SOCIETY AND INSTITUTIONS
Childhood and Social Institutions 2256F/G - FAMILY LAW AND POLITICS

Effective **September 1, 2018**, the following course be introduced.

Childhood and Social Institutions 2253F/G - Childhood and the Law

A foundation for the study of childhood and the law. By examining cases, statutes, and treaties students will have an opportunity to increase their understanding of legal thought and practice regarding childhood and youth in contemporary Canada.

Prerequisite(s): Childhood and Social Institutions 1025F/G or permission of the Program Coordinator.

Antirequisite(s): The former Childhood and Social Institutions 2250F/G and the former Childhood and Social Institutions 2256F/G.

Extra Information: 3 hours, 0.5 course.
(King's)

Effective **September 1, 2018**, the following courses be revised.

Childhood and Social Institutions 3360F/G - CHILDHOOD AND DISCOURSE THEORY

Prerequisite(s): 3rd or 4th year standing, ~~with a cumulative average of 70%.~~

Childhood and Social Institutions 3361F/G - UNDERSTANDING CHANGING CHILDHOODS

Exploration of history of childhood emphasizing discourse analysis and ideas. In particular, the discursive origins of modern childhood; the significance of childhood for major shifts in the history of ideas and social thought; and the ways **An historical study of the discourses and practices of childhood and youth.** Students will explore how **and why** various actors, groups, or movements have participated **and shaped growing-up in Canada.** ~~in the cultural construction of childhood.~~

Antirequisite(s): **History 3261F/G.**

Prerequisite(s): 3rd or 4th year standing, ~~with a cumulative average of 70%.~~

Effective **September 1, 2018**, course lists for the following modules be revised.

HONORS SPECIALIZATION IN CHILDHOOD AND SOCIAL INSTITUTIONS

Childhood and Social Institutions HSP Approved List:

~~Childhood and Social Institutions 2250F/G, Childhood and Social Institutions 2251F/G, Childhood and Social Institutions 2252F/G, Childhood and Social Institutions 2253F/G, Childhood and Social Institutions 2255F/G (or the former Political Science 2265F/G), Childhood and Social Institutions 2256F/G (or the former Political Science 2266F/G), Childhood and Social Institutions 2257F/G, Childhood and Social Institutions 2291A/B-2296A/B, Childhood and Social Institutions 3300F/G, Childhood and Social Institutions 3311F/G, Childhood and Social Institutions 3320F/G, Childhood and Social Institutions 3325F/G, Childhood and Social Institutions 3330F/G, Childhood and Social Institutions 3335F/G, Childhood and Social Institutions 3340F/G, Childhood and Social Institutions 3345F/G, Childhood and Social Institutions 3350F/G-3353F/G, Childhood and Social Institutions 3360F/G-3363F/G, Childhood and Social Institutions 3370F/G, Childhood and Social Institutions 3371F/G, Childhood and Social Institutions 3380F/G/Z, Childhood and Social Institutions 3391A/B-3396A/B, Childhood and Social Institutions 3398F/G, Childhood and Social Institutions 3399F/G, Childhood and Social Institutions 4410F/G, Childhood and Social Institutions 4491A/B-~~

4496A/B, Childhood and Social Institutions 4498F/G-4499F/G. **The former Childhood and Social Institutions 2250F/G, the former Childhood and Social Institutions 2256F/G (or the former Political Science 2266F/G).**

Disability Studies 2210A/B.

English 2730F/G, English 2735F/G.

Psychology 2610F/G.

Sociology 2235.

MAJOR IN CHILDHOOD AND SOCIAL INSTITUTIONS

Childhood and Social Institutions Major Approved List:

~~Childhood and Social Institutions 2250F/G~~, Childhood and Social Institutions 2251F/G, Childhood and Social Institutions 2252F/G, **Childhood and Social Institutions 2253F/G**, Childhood and Social Institutions 2255F/G (or the former Political Science 2265F/G), ~~Childhood and Social Institutions 2256F/G (or the former Political Science 2266F/G)~~, Childhood and Social Institutions 2257F/G, Childhood and Social Institutions 2291A/B-2296A/B, Childhood and Social Institutions 3300F/G, Childhood and Social Institutions 3311F/G, Childhood and Social Institutions 3320F/G, Childhood and Social Institutions 3325F/G, Childhood and Social Institutions 3330F/G, Childhood and Social Institutions 3335F/G, Childhood and Social Institutions 3340F/G, Childhood and Social Institutions 3345F/G, Childhood and Social Institutions 3350F/G-3353F/G, Childhood and Social Institutions 3360F/G-3363F/G, Childhood and Social Institutions 3370F/G, Childhood and Social Institutions 3371F/G, Childhood and Social Institutions 3380F/G/Z, Childhood and Social Institutions 3391A/B-3396A/B, Childhood and Social Institutions 3398F/G, Childhood and Social Institutions 3399F/G, Childhood and Social Institutions 4401F/G, Childhood and Social Institutions 4402F/G, Childhood and Social Institutions 4410F/G, Childhood and Social Institutions 4491A/B-4496A/B, Childhood and Social Institutions 4498F/G-4499F/G. **The former Childhood and Social Institutions 2250F/G, the former Childhood and Social Institutions 2256F/G (or the former Political Science 2266F/G).**

Disability Studies 2210A/B.

English 2033E, English 2730F/G, English 2735F/G.

Interdisciplinary Studies 2252F/G.

The former Philosophy 2053.

Psychology 2040A/B, Psychology 2610F/G, **the former** Psychology 2044.

Religious Studies 2139A/B.

Sociology 2105A/B, Sociology 2144A/B, Sociology 2235.

HISTORY

Effective **September 1, 2018**, the following courses be introduced.

History 3261F/G – Canadian Childhood and Youth

An historical study of the discourses and practices of childhood and youth. Students will explore how and why various actors, groups, or movements have participated in and shaped growing-up in Canada.

Antirequisite: Childhood and Social Institutions 3361F/G.

Prerequisite: 3rd or 4th year standing.

Extra Information: 3 hours, 0.5 course.

(King's)

History 4209E - Canada in the First World War

This reading, discussion, and research intensive seminar course examines the Canadian experience in the First World War. Topics include the social and cultural impact of the war, victory and defeat on the fighting fronts, and domestic politics and repression. Students will produce a research paper based substantially on primary sources.

Antirequisite: History 4292E (2014-15).

Prerequisite: 1.0 History course at the 2200-level or above, or permission of the Department

Extra Information: 3 hours, 1.0 course.
(King's)

SOCIOLOGY

*Effective **September 1, 2018**, the following course be introduced.*

Sociology 3387F/G – Surveillance, Security and Society

An examination of how surveillance has become ubiquitous and taken for granted in contemporary society. Beyond general themes of surveillance studies, such as control, visibility, classification, authentication, etc., this course focuses on the role of surveillance in social sorting and (in)security in society.

Antirequisite(s): Sociology 3325F/G if taken in 2017-18, Political Science 3387F/G, or the former Political Science 4430E.

Prerequisite(s): Enrolment in 3rd or 4th year in either Political Science or Sociology.

Extra Information: 3 hours, 0.5 course.

(King's)

*Effective **September 1, 2018**, the following modules be revised.*

HONORS SPECIALIZATION IN CRIMINOLOGY

Module

9.0 courses:

3.0 courses: Sociology 2205A/B and Sociology 2206A/B, Sociology 3306A/B, Sociology 3310F/G, Sociology 4404F/G, Sociology 4409F/G.

1.0 course from: Sociology 2240E or Sociology 2270A/B and Sociology 2271A/B.

1.0 course: Sociology 2266A/B and Sociology 2267A/B.

2.0 courses from: Sociology 2223A/B, Sociology 2253A/B, Sociology 2256A/B, Sociology 2259, Sociology 2260A/B.

1.5 courses from: Sociology 3313F/G, Sociology 3340F/G, Sociology 3357F/G, Sociology 3358F/G, Sociology 3361F/G, Sociology 3363F/G, Sociology 3366F/G, Sociology 3371F/G, Sociology 3374F/G, Sociology 3375F/G, Sociology 3379F/G, **Sociology 3382F/G**.

0.5 course from: Sociology 4437F/G, Sociology 4438F/G, Sociology 4439F/G, Sociology 4440F/G.

MAJOR IN CRIMINOLOGY

Module

6.0 courses

2.0 courses: Sociology 2205A/B and Sociology 2206A/B, Sociology 2240E or Sociology 2270A/B and Sociology 2271A/B.

1.0 course from: **English 2100F/G, History 2190A/B, Law 2101; Philosophy 2080, Philosophy 2821F/G, Philosophy 2822F/G; Psychology 2031A/B; Social Justice and Peace Studies 2302A/B, Sociology 2140, Sociology 2143E.**

0.5 course: **Sociology 2266A/B.**

2.0 1.5 courses from: **Sociology 2200E, Sociology 2223A/B, Sociology 2253A/B, Sociology 2256A/B, Sociology 2259, Sociology 2260A/B, Sociology 2266A/B, Sociology 2267A/B.**

1.0 course from: Sociology 3313F/G, Sociology 3340F/G, Sociology 3357F/G, Sociology 3358F/G, Sociology 3361F/G, Sociology 3363F/G, Sociology 3366F/G, Sociology 3371F/G, Sociology 3374F/G, Sociology 3375F/G, Sociology 3379F/G, **Sociology 3382F/G.**