

SOC APPROVALS

May 1, 2024

The following proposals were approved at the May 1, 2024 meeting of the Subcommittee on Undergraduate Academic Courses (SOC).

FACULTY OF ARTS AND HUMANITIES

DEPARTMENT OF ENGLISH AND WRITING STUDIES

Course Introduction – Effective September 1, 2024, the following course be introduced:

ENGLISH 2011F/G

PAPYRUS TO PIXELS: A HISTORY OF THE THINGS WE READ

(Short title: A History of Things We Read)

This course explores the broad sweep of book history from early manuscript culture to the eBook. Much of this course will be “hands-on,” working with the material artifacts or facsimiles of book culture. Field trips and guest lectures will enhance our understanding of the book’s long and complex history.

Antirequisite(s): English 2091F/G if taken in Winter 2022, English 2731F/G.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

ENGLISH 2077F/G

LEGENDS OF KING ARTHUR

King Arthur has been a central figure in European literature for a millennium, first as a British warrior, then as the center of the chivalric Round Table. This course explores a wide range of medieval texts, from Latin and French chronicles to English and Norse romances (all read in translation).

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**ENGLISH 3311F/G
THE CANTERBURY TALES**

This course is a study of Geoffrey Chaucer's story collection *The Canterbury Tales*. We will learn how to read Chaucer's English with the aim of understanding and enjoying the humour, innovations, and insights that have made *The Canterbury Tales* a much-loved work of literary art for nearly seven centuries.

Prerequisite(s): At least 60% in 1.0 of English 1020-1999 or 1.0 of Medieval Studies 1000-1999 or permission of the Department.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**ENGLISH 3312F/G
CHAUCER'S DREAMS**

This course is a study of Geoffrey Chaucer's fourteenth-century dream-vision poems. Framing our discussion with key concepts in medieval psychology, we will explore the allegories, consolations, histories, and metafictional surprises of Chaucer's dreams. We will begin with a selection of short lyrics, using accessible, reader-friendly editions for all course texts.

Prerequisite(s): At least 60% in 1.0 of English 1020-1999 or 1.0 of Medieval Studies 1000-1999 or permission of the Department.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**ENGLISH 3354F/G
DANDIES, DECADENTS AND THE NEW WOMEN**

(Short title: Dandies, Decadents, New Women)

What does it mean to value art for art's sake? This course introduces students to the literature and culture of the late-Victorian period, including works by Pater, Wilde, Beardsley, Lee, and others. Assignments include examining rare Aesthetic and Decadent books and magazines in Western Library's special collections.

Prerequisite(s): At least 60% in 1.0 of English 1020-1999 or permission of the Department.

Antirequisite(s): English 3369F/G if taken in Fall 2023, the former English 3445E.

Extra Information: 3 lecture hours.
Course Weight: 0.50

**FACULTY OF ARTS AND HUMANITIES, FACULTY OF
INFORMATION AND MEDIA STUDIES, AND DON WRIGHT
FACULTY OF MUSIC**

CREATIVE ARTS AND PRODUCTION PROGRAM

Course Introduction – Effective September 1, 2024, the following course be introduced:

**CREATIVE ARTS 2010A/B
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION**
(Short title: Special Topics in CAP)

Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**CREATIVE ARTS 2050F/G
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION**
(Short title: Special Topics in CAP)

Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**CREATIVE ARTS 2070A/B
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION**
(Short title: Special Topics in CAP)

Prerequisite(s): Enrolment in a CAP module.
Extra Information: 2 lecture hours, 2 lab hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**CREATIVE ARTS 3010A/B
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION**
(Short title: Special Topics in CAP)

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

CREATIVE ARTS 3050F/G
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION
(Short title: Special Topics in CAP)

Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

CREATIVE ARTS 3070A/B
SPECIAL TOPICS IN CREATIVE ARTS AND PRODUCTION
(Short title: Special Topics in CAP)

Prerequisite(s): Enrolment in a CAP module.
Extra Information: 2 lecture hours, 2 lab hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

CREATIVE ARTS 4411A/B/Y
PRODUCTION OR PERFORMANCE

This self-reflexive experiential learning course provides students with the opportunity to propose and complete their own creative performance or production under the supervision of a faculty mentor.

Prerequisite(s): **Creative Arts 3210A/B strongly recommended.**
Extra Information: 3 lecture hours. Must be taken in fourth year of the Creative Arts and Production program. **Creative Arts 3210A/B strongly recommended.**
Students must submit a project proposal form by the posted deadline in May of the year prior to taking this course. Spaces in Creative Arts 4411A/B/Y are limited and students will be admitted based on the adjudication of their proposal.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN CREATIVE ARTS AND PRODUCTION

Note: The Major in Creative Arts and Production is jointly offered by the Faculty of Arts **and Humanities**, the Faculty of Information and Media Studies and the Don Wright Faculty of Music.

Admission Requirements

Acceptance into a Bachelor of Arts program in either the Faculty of Arts and Humanities or the Faculty of Information and Media Studies or the Don Wright Faculty of Music. Completion of first-year requirements with ~~no failures,~~ **including a minimum mark of 60% in** Creative Arts 1020A/B, and **a minimum mark of 60% in** at least a 0.5 course from MIT 1070A/B, Music 1629A/B, Music 1695A/B/Y, Music 1730A/B, Music 1925, Studio Art 1601, Studio Art 1605, Writing 1000F/G, or Computer Science 1033A/B. **Students must also meet the admission requirements for their other module. Enrolment in the Major in Creative Arts and Production is limited. Meeting the minimum requirements does not guarantee that students wishing to enter the module will be offered enrolment.**

Module

6.0 courses:

0.5 course in second year: Creative Arts 2200A/B.

0.5 course in third year: Creative Arts 3200F/G.

0.5 course in fourth year: Creative Arts 4400A/B/Y.

0.5 course in fourth year **from**: Creative Arts 4410A/B/Y, ~~or~~ Creative Arts 4411A/B/Y.

2.0 courses from: **Creative Arts 2010A/B, Creative Arts 2050F/G, Creative Arts 2070A/B, Creative Arts 2100A/B, Creative Arts 2210A/B, Creative Arts 3010A/B, Creative Arts 3050F/G, Creative Arts 3070A/B,** Creative Arts 3210A/B, Creative Arts 3300A/B, Creative Arts 3099A/B, **Creative Arts 4099A/B,** Creative Arts 4200A/B, **Creative Arts 4210A/B.**

2.0 courses from: Classical Studies 3100E, Classical Studies 3130F/G, Dance 2270A/B, Dance 2274A/B, Dance 3371A/B, Dance 3372A/B, Digital Communication 2203A/B, Digital Communication 2204A/B, Digital Communication 2311F/G, Digital Humanities 2120F/G, English 2041F/G, English 2097A/B, English 2099F/G, Film Studies 3368F/G, GSWS 3305F/G, MIT 2153A/B, MIT 2156A/B, MIT 2550A/B, MIT 2570A/B, MIT 2600A/B, MIT 2601A/B, MIT 3132F/G, MIT 3351F/G, MIT 3776A/B, Music 2695A/B, Music 2700A/B, Music 2701A/B, Music 2702A/B, Music 2734A/B, Music 2736A/B, Music 2925, Music 2970, Music 3734A/B, Music 3735A/B, Music 3736A/B, Music 3737A/B, Music 3738A/B, Music 3739A/B, Music

3854A/B, Music 3925, Music 3960A/B/Y, Music 3970, Studio Art 2500A/B, Studio Art 2508A/B, Studio Art 2510A/B, Studio Art 2560A/B, Studio Art 2652A/B/Y, Studio Art 2660A/B, Studio Art 2662A/B, Studio Art 2663, Studio Art 3660A/B, Studio Art 3662A/B, Studio Art 3663, Studio Art 3664A/B, **Studio Art 3674A/B**, Theatre Studies 2201F/G, Theatre Studies 2202F/G, Theatre Studies 3202F/G, Theatre Studies 3205F/G, Theatre Studies 3206F/G, Theatre Studies 3207F/G, Theatre Studies 3208F/G, Theatre Studies 3209F/G, Theatre Studies 3581F/G, Writing 2204F/G, Writing 2211F/G, Writing 2213F/G, Writing 2214F/G, Writing 2218F/G, Writing 2220F/G, Writing 2224F/G, Writing 2226F/G, Writing 2227F/G, Writing 2530A/B, Writing 3225F/G, Writing 3228F/G, or any Creative Arts course not taken above.

Note: This module cannot be taken on its own. It must be completed in conjunction with another Major, Specialization or Honours Specialization module in a Bachelor of Arts degree in the Faculty of Arts and Humanities, the Faculty of Information and Media Studies, or the Don Wright Faculty of Music.

IVEY BUSINESS SCHOOL

Course Introduction – Effective September 1, 2024, the following course be introduced:

**BUSINESS ADMINISTRATION 4675/B
PROGRAMMING FOR BUSINESS APPLICATIONS**

(Short title: Programming for Business)

This course aims to introduce Python, an extensively used programming language. It will emphasize practical applications in business practices. And upon completion, students will gain an understanding in coding experience, digital fluency, and the relevance of programming in modern business practices.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**BUSINESS ADMINISTRATION 4676A/B
LEADING SERVICE OPERATIONS**

Service organizations differ from product-oriented operations in intangibility, variability, and perishability. The digital era introduced transformative models, sparking debate on AI's influence. This course focuses on directing service-based organizations, service design and holistic strategies. It promotes transitioning from basic transactions to valuable experiences and prepares future leaders for values-driven services.

Antirequisite(s): Business Administration 4434A/B.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**BUSINESS ADMINISTRATION 4677A/B
PURPOSE-DRIVEN LEADERSHIP**

This course engages students in the journeys of diverse, character-based leaders who actively shape our future by championing today's challenges and issues. By combining immersive case studies with active mentorship, the course equips students with tools to deepen their personal purpose in order to enhance long-term prosperity and fulfillment.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

BUSINESS ADMINISTRATION 4421A/B

BUSINESS MARKETING AND SALES MANAGEMENT ~~BUSINESS TO BUSINESS MARKETING~~

(Short title: **Business Marketing**)

Pursuing a career in companies whose primary customers are businesses as opposed to consumers requires an understanding of business-buying behaviour. This course examines marketing to and through businesses, and also explores a spectrum of topics related to sales force management, as one of the primary marketing instruments in B2B marketing.

Extra Information: **3 hours.**

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

BUSINESS ADMINISTRATION 4535A/B

INTEGRATED MARKETING ~~INTERGRATING & IMPLEMENTING MARKETING DECISIONS~~

(Short title: **Integrated Marketing**)

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.

Extra Information: 3 hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

BUSINESS ADMINISTRATION 4538A/B

CORPORATIONS & SOCIETY – WOMEN IN LEADERSHIP
~~C&S – GENDER AND WORK~~

(Short title: **C&S – Women in Leadership**)

~~This course is~~ **intended** 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.

Antirequisite(s): Business Administration 4539A/B, Business Administration 4557A/B, Business Administration 4588A/B, Business Administration 4608A/B, Business Administration 4625A/B.

Extra Information: 3 hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**BUSINESS ADMINISTRATION 4569
IVEY FIELD PROJECT**

The Ivey Field Project (IFP) presents an opportunity for students to put into action all of what they have learned during their ~~time at Ivey~~ **first year of the HBA program**. Each student, together with their team, will choose between creating a new venture **project** (NVP) ~~and~~ or consulting ~~to for~~ an existing business (~~CGPIFP~~).

Extra Information: 3 hours.
Course Weight: 1.00

Course Revision – Effective September 1, 2024, the following change(s) be made:

**BUSINESS ADMINISTRATION 4608A/B
CORPORATIONS & SOCIETY – MANAGING ENERGY AND THE ENVIRONMENT**

~~C&S–MANAGING ENERGY, ENVIRONMENT & NATURAL ENVIRONMENT~~
(Short title: **C&S – Managing Energy**)

This course examines contemporary issues facing managers in natural resource extraction and implications to ~~the~~ society and the environment. ~~The course~~ **It** will develop an understanding for the greatest sensitivities in these sectors and how firms can strategically manage the development of large-scale projects. Emphasis will be placed on public regulation and self-regulation.

Antirequisite(s): Business Administration 4538A/B, Business Administration 4539A/B, Business Administration 4557A/B, Business Administration 4588A/B, Business Administration 4625A/B.

Extra Information: 3 hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**BUSINESS ADMINISTRATION 4620A/B
BUSINESS IMPACT ASSESSMENT** ~~ASSESSING THE BROADER IMPACT OF BUSINESS~~

Designed to provide students with the tools necessary to assess how firms manage their environmental, economic and social performance; develop methods and metrics to assess the broader impact of a product, program, organization or business on its stakeholders; and identify and explain how organizations' performance measurement systems shape business practices.

Extra Information: 3.0 hours.
Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HBA/HONOURS BMSc INTERDISCIPLINARY MEDICAL SCIENCES

Years 4 and 5: BMSc requirements for the Honours Specialization in Interdisciplinary Medical Sciences (IMS)

Year 4

2.0 courses from Group 1 (these 2.0 Group 1 courses cannot all be from the same subject area, e.g., these 2.0 Group 1 courses cannot all be Anatomy and Cell Biology courses).

2.0 additional courses from: courses from Groups 1-3 and courses numbered 2100 -3999 in Chemistry. These 2.0 courses must include 0.5 – 1.0 course from Group 3. A maximum of 1.0 course from Group 3 and a maximum of 0.5 course in Chemistry can be included within these 2.0 courses.

A maximum of 0.5 course from either Chemistry numbered 2100-3999 or Groups 1-2 that is completed prior to admission to the combined program course may be used toward the Year 4 BMSc (IMS) requirements. Any additional course(s) completed prior to admission to the combined program may be used toward the Year 4 BMSc (IMS) requirements only if an additional optional course(s) is completed. A maximum of 0.5 of the courses listed in the Year 4 BMSc (IMS) requirements may be deferred until Year 5.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, ~~the former Medical Biophysics 3505F~~, ~~the former Medical Biophysics 3507G~~, ~~the former Microbiology and Immunology 3100A~~ ~~any of the former courses: the former Epidemiology and Biostatistics 2200A/B, the former Medical Biophysics 3336F/G.~~

Group 2: **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, Medical

Bioinformatics 3100A/B, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319~~.

Group 3: Biochemistry 3380G, ~~Medical Biophysics 3970Z~~, **Medical Biophysics 3980E**, Medical Sciences 3990E, Microbiology and Immunology 3610F, Microbiology and Immunology 3620G, Physiology and Pharmacology 3000E, the former Medical Sciences 3900F/G/Z, **the former Medical Biophysics 3970Z**.

Notes:

1. Chemistry 2223B is a prerequisite for the following Group 1 and 3 courses: Biochemistry 3381A, Biochemistry 3382A and **Microbiology and Immunology 3610F** ~~Microbiology and Immunology 3620G~~.
2. See UNDERGRADUATE COURSE INFORMATION for the requisites for 3000- and 4000-level courses, and the BSc website for information about constraints (priority and restricted access) for all basic medical science courses.
3. The breadth requirements of a BSc degree must be satisfied. The essay requirement is satisfied with modular courses. See "Graduation Requirements for Honours Bachelor degrees".

Program Revision – Effective September 1, 2024, the following change(s) be made:

A. GENERAL CHEMICAL ENGINEERING OPTION

Module/Program Information

Second Year Program

Numerical and Mathematical Methods 2270A/B, Numerical and Mathematical Methods 2277A/B, CBE 2206A/B, CBE 2207A/B, CBE 2214A/B, CBE 2220A/B, CBE 2221A/B, CBE 2224A/B, CBE 2290A/B, CBE 2291A/B, Statistical Sciences 2143A/B, Writing 2130F/G.

Third Year Program

CBE 3307A/B, CBE 3310A/B, CBE 3315A/B, CBE 3316A/B, CBE 3318A/B, CBE 3319A/B, CBE 3322A/B, CBE 3323A/B, CBE 3324A/B, CBE 3395Y, two 0.5 non-technical electives.

Fourth Year Program

CBE 4497, CBE 4415*, ELI 4110F/G or the former ES 4498F/G, four 0.5 technical electives†, 0.5 non-technical elective**.

*A student may substitute two 0.5 technical electives from the list below for CBE 4415.

†Accelerated Master's students can take up to two 0.5 graduate courses with special permission from the Department Chair.

**Selection of the non-technical elective must be approved by the Department Counsellor to satisfy the CEAB requirements of subject matter that deals with central issues, methodologies, and thought processes of the humanities and social sciences. An approved list can be found on the Engineering website.

Technical Electives: General Chemical Engineering Option

CBE 4404A/B, CBE 4407A/B, CBE 4411A/B, CBE 4413A/B, CBE 4416A/B, CBE 4417A/B, CBE 4418A/B, CBE 4420A/B, CBE 4428A/B, CBE 4432A/B, **CBE 4450A/B**, CBE 4463A/B, CBE 4485A/B, CBE 4493A/B, CEE 3362A/B, CBE 4405A/B, CBE 4484A/B, MME 4429A/B, the former CBE 4424A/B.

Some technical electives may not be offered in a given academic year.

Special permission from the Department is needed to take courses from Science or Engineering not listed above.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HBA/CHEMICAL ENGINEERING

Module/Program Information

Engineering Common First Year Program

Full-year courses: Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y.

Half-year courses: Numerical and Mathematical Methods 1411A/B, Numerical and Mathematical Methods 1412A/B, Numerical and Mathematical Methods 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

Second Year Program

Numerical and Mathematical Methods 2270A/B, Numerical and Mathematical Methods 2277A/B, CBE 2206A/B, CBE 2207A/B, CBE 2214A/B, CBE 2220A/B, CBE 2221A/B, CBE 2224A/B, CBE 2290A/B, CBE 2291A/B, Business Administration 2257.

Third Year Program

The third year of the undergraduate program in Business Administration consists of an integrated set of courses (7.5 courses) designed to give a basic understanding of the functions and the interrelationships of the major areas of management, as well as to develop problem-solving and action-planning skills.

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

Fourth Year Program

CBE 3307A/B, CBE 3310A/B, CBE 3315A/B, CBE 3316A/B, CBE 3318A/B, CBE 3319A/B, CBE 3322A/B, CBE 3323A/B, CBE 3324A/B, CBE 3395Y, Statistical Sciences 2143A/B.

Applied Project Requirement: Business Administration 4569.

Fifth Year Program

CBE 4497, ELI 4110F/G or the former ES 4498F/G, two 0.5 technical electives*,

3.0 Business Administration courses:

- 0.5 course: International Perspective Requirement: Business Administration 4505A/B.
- 0.5 course: Corporations and Society Perspective Requirement: At least one 0.5 course from Business Administration - Corporations and Society designated electives offered during the academic year (Business Administration 4538A/B, Business Administration 4539A/B, Business Administration 4588A/B, Business Administration 4625A/B) or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- 0.5 course: Managerial Accounting Requirement: Business Administration 4624A/B.
- 1.5 elective courses chosen from 4000 level Business courses.

* Students may choose 2 technical electives from the General Chemical Engineering Option Technical Electives list.

Technical Electives: General Chemical Engineering Option

CBE 4404A/B, CBE 4407A/B, CBE 4409A/B, CBE 4411A/B, CBE 4413A/B, CBE 4416A/B, CBE 4417A/B, CBE 4420A/B, CBE 4421A/B, CBE 4422A/B, CBE 4423A/B, CBE 4432A/B, CBE 4428A/B, **CBE 4450A/B**, CBE 4463A/B, CBE 4485A/B, CBE 4493A/B, CEE 3362A/B, CBE 4405A/B, CBE 4484A/B, MME 4429A/B, the former CBE 4418A/B, the former CBE 4424A/B.

Some technical electives may not be offered in a given academic year.

Special permission from the Department is needed to take courses from Science or Engineering not listed above.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HBA/HONOURS SPECIALIZATION IN HEALTH SCIENCES

Admission Requirements

Students apply for the combined program during their HBA1 year. To be eligible for admission for the combined program, students must complete all requirements for the first two years of the **Honours Specialization in Health Sciences** ~~BHSc program~~, obtain a minimum two year average of 80% and achieve a minimum 70% in Business Administration 2257. Demonstrated participation in extra curricular and/or community activities, leadership and work experience are also required. In addition, students must attain a weighted rounded average of 78% in the HBA1 year. Admission to the combined program is competitive and limited. Upon completion of the combined program students will receive two degrees: a BHSc with an Honours Specialization in Health Sciences and a BA in Honours Business Administration.

Module/Program Information

~~First and Second Years~~

~~All students, including those admitted via the AEO route, must have completed all the requirements of the first and second year curriculum in the Faculty of Health Sciences, as well as Business Administration 2257.~~

First Year

All students, including those admitted via the AEO route, must complete the following first-year requirements:

Health Sciences 1001A/B, Health Sciences 1002A/B, Health Sciences 1111A/B, Health Sciences 1300A/B; Biology 1201A and Biology 1202B or Biology 1001A and Biology 1002B.

Second Year

All students, including those admitted via the AEO route, must complete the following second-year requirements:

4.5 courses: Health Sciences 2250A/B, Health Sciences 2400A/B, Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, Health Sciences 2800; Business Administration 2257.

Year 3 (HBA1)

The third year of the undergraduate program in Business Administration consists of an integrated set of courses (7.5 courses) designed to give a basic understanding of the functions and the interrelationships of the major areas of management, as well as to develop problem-solving and action-planning skills.

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

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

Years 4 and 5 (HBA requirements can be taken over Year 4 or 5, except Business Administration 4569, which must be taken in Year 4)

2.5 courses:

- International Perspective Requirement: Business Administration 4505A/B (0.5 course).
- Corporations and Society Perspectives Requirement: At least one 0.5 course from Business Administration - Corporations and Society designated electives offered during the academic year (Business Administration 4538A/B, Business Administration 4539A/B, Business Administration 4588A/B, Business Administration 4625A/B) or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- Managerial Accounting Requirement: Business Administration 4624A/B (0.5 course).
- Applied Project Requirement: Business Administration 4569 (1.0 course)

2.5 additional business elective courses.

Years 4 and 5 (Health Science)

~~1.0~~ **0.5** course: ~~Health Sciences 3400A/B,~~ Health Sciences 3801A/B.

~~5.0 courses: Health Sciences electives.~~

0.5 course in Health Research Methods from: Health Sciences 3811F/G, Health Sciences 3840A/B, Health Sciences 3910F/G, Health Sciences 4200F/G, Health Sciences 4205A/B, Health Sciences 4240A/B, Health Sciences 4250A/B.

0.5 course in Ecological Health from: Health Sciences 3010F/G, Health Sciences 3025A/B, Health Sciences 3071A/B, Health Sciences 3240A/B, Health Sciences 3250F/G, Health Sciences 3704A/B, Health Sciences 4220F/G, Health Sciences 4505F/G, Health Sciences 4615F/G.

3.0 courses from: Rehabilitation Sciences, Health Sciences, or Communication Sciences and Disorders at the 2010-level or above (not otherwise selected).

1.0 course from: Health Sciences at the 4000-level.

FACULTY OF ENGINEERING

DEPARTMENT OF CHEMICAL AND BIOCHEMICAL ENGINEERING

Course Revision – Effective September 1, 2024, the following change(s) be made:

CHEMICAL AND BIOCHEMICAL ENGINEERING 2220A/B CHEMICAL PROCESS CALCULATIONS

The objective of this course is to introduce the fundamental concepts of material and energy balances which form the basis of chemical and biochemical engineering processes. Calculations related to specific problems in these fields are carried out. New directions in chemical and biochemical engineering are introduced.

Prerequisite(s): NMM 1411A/B or the former Applied Mathematics 1411A/B, NMM 1414A/B or the former Applied Mathematics 1414A/B, Chemistry 1302A/B, Physics 1401A/B **or Physics 1201A/B**, ~~and~~ Physics 1402A/B **or Physics 1202A/B**.

Extra Information: 3 lecture hours, 2 tutorial hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

CHEMICAL AND BIOCHEMICAL ENGINEERING 3324A/B MASS TRANSFER OPERATIONS

This course reviews the fundamentals of interphase mass transfer and transfer units and then reviews the design of differential mass transfer equipment, with special emphasis on absorption, stripping, humidification and drying.

Prerequisite(s): CBE 2220A/B, CBE 2221A/B. **Corequisite(s):** CBE 3395Y or CBE 3396Y or registration in the Artificial Intelligence Systems Engineering program **or Integrated Engineering program**.

Extra Information: 3 lecture hours, 1 tutorial hour.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

A. GENERAL CHEMICAL ENGINEERING OPTION

Module/Program Information

Second Year Program

Numerical and Mathematical Methods 2270A/B, Numerical and Mathematical Methods 2277A/B, CBE 2206A/B, CBE 2207A/B, CBE 2214A/B, CBE 2220A/B, CBE 2221A/B, CBE 2224A/B, CBE 2290A/B, CBE 2291A/B, Statistical Sciences 2143A/B, Writing 2130F/G.

Third Year Program

CBE 3307A/B, CBE 3310A/B, CBE 3315A/B, CBE 3316A/B, CBE 3318A/B, CBE 3319A/B, CBE 3322A/B, CBE 3323A/B, CBE 3324A/B, CBE 3395Y, two 0.5 non-technical electives.

Fourth Year Program

CBE 4497, CBE 4415*, ELI 4110F/G or the former ES 4498F/G, four 0.5 technical electives†, 0.5 non-technical elective**.

*A student may substitute two 0.5 technical electives from the list below for CBE 4415.

†Accelerated Master's students can take up to two 0.5 graduate courses with special permission from the Department Chair.

**Selection of the non-technical elective must be approved by the Department Counsellor to satisfy the CEAB requirements of subject matter that deals with central issues, methodologies, and thought processes of the humanities and social sciences. An approved list can be found on the Engineering website.

Technical Electives: General Chemical Engineering Option

CBE 4404A/B, CBE 4407A/B, CBE 4411A/B, CBE 4413A/B, CBE 4416A/B, CBE 4417A/B, CBE 4418A/B, CBE 4420A/B, CBE 4428A/B, CBE 4432A/B, **CBE 4450A/B**, CBE 4463A/B, CBE 4485A/B, CBE 4493A/B, CEE 3362A/B, CBE 4405A/B, CBE 4484A/B, MME 4429A/B, the former CBE 4424A/B.

Some technical electives may not be offered in a given academic year.

Special permission from the Department is needed to take courses from Science or Engineering not listed above.

Program Revision – Effective September 1, 2024, the following change(s) be made:

C. CHEMICAL ENGINEERING/HBA

Module/Program Information

Engineering Common First Year Program

Full-year courses: Engineering Science 1050, Business Administration 1299E.

Full-year half course: Engineering Science 1022A/B/Y.

Half-year courses: Numerical and Mathematical Methods 1411A/B, Numerical and Mathematical Methods 1412A/B, Numerical and Mathematical Methods 1414A/B, Chemistry 1302A/B, Engineering Science 1021A/B, Engineering Science 1036A/B, Physics 1401A/B and Physics 1402A/B.

(Three of the half courses are taken in each term as scheduled)

Second Year Program

Numerical and Mathematical Methods 2270A/B, Numerical and Mathematical Methods 2277A/B, CBE 2206A/B, CBE 2207A/B, CBE 2214A/B, CBE 2220A/B, CBE 2221A/B, CBE 2224A/B, CBE 2290A/B, CBE 2291A/B, Business Administration 2257.

Third Year Program

The third year of the undergraduate program in Business Administration consists of an integrated set of courses (7.5 courses) designed to give a basic understanding of the functions and the interrelationships of the major areas of management, as well as to develop problem-solving and action-planning skills.

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

Fourth Year Program

CBE 3307A/B, CBE 3310A/B, CBE 3315A/B, CBE 3316A/B, CBE 3318A/B, CBE 3319A/B, CBE 3322A/B, CBE 3323A/B, CBE 3324A/B, CBE 3395Y, Statistical Sciences 2143A/B.

Applied Project Requirement: Business Administration 4569.

Fifth Year Program

CBE 4497, ELI 4110F/G or the former ES 4498F/G, two 0.5 technical electives*,

3.0 Business Administration courses:

- 0.5 course: International Perspective Requirement: Business Administration 4505A/B.
- 0.5 course: Corporations and Society Perspective Requirement: At least one 0.5 course from Business Administration - Corporations and Society designated electives offered during the academic year (Business Administration 4538A/B, Business Administration 4539A/B, Business Administration 4588A/B, Business Administration 4625A/B) or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- 0.5 course: Managerial Accounting Requirement: Business Administration 4624A/B.
- 1.5 elective courses chosen from 4000 level Business courses.

* Students may choose 2 technical electives from the General Chemical Engineering Option Technical Electives list.

Technical Electives: General Chemical Engineering Option

CBE 4404A/B, CBE 4407A/B, CBE 4409A/B, CBE 4411A/B, CBE 4413A/B, CBE 4416A/B, CBE 4417A/B, CBE 4420A/B, CBE 4421A/B, CBE 4422A/B, CBE 4423A/B, CBE 4432A/B, CBE 4428A/B, **CBE 4450A/B**, CBE 4463A/B, CBE 4485A/B, CBE 4493A/B, CEE 3362A/B, CBE 4405A/B, CBE 4484A/B, MME 4429A/B, the former CBE 4418A/B, the former CBE 4424A/B.

Some technical electives may not be offered in a given academic year.

Special permission from the Department is needed to take courses from Science or Engineering not listed above.

FACULTY OF HEALTH SCIENCES

SCHOOL OF HEALTH STUDIES

Course Introduction – Effective September 1, 2024, the following course be introduced:

HEALTH SCIENCES 2800 HEALTH SCIENCES RESEARCH

This course provides an introduction to research in the Health Sciences. Students will learn about the whole research process, from formulating research questions, study design, methodologies and methods, data collection, analysis, and knowledge translation. Attention will be provided to basic qualitative and quantitative methods, and their application to healthcare settings.

Antirequisite(s): Psychology 2802F/G, Psychology 2840F/G, the former Psychology 2800E, the former Psychology 2820E, the former Psychology 2830A/B.

Extra Information: 2 lecture hours, 1 tutorial hour.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

HEALTH SCIENCES 2801A/B RESEARCH METHODS IN HEALTH SCIENCES

An introduction to the design of health sciences research, providing students with knowledge relevant to the planning and evaluation of research in both laboratory and applied settings.

Antirequisite(s): **Health Sciences 2800**, Kinesiology 2032A/B, ~~Psychology 2800E~~ or Psychology 2801F/G ~~or Psychology 2820E~~, **Psychology 2802F/G, Psychology 2830A/B**, or Psychology 2840F/G, or Sociology 2206A/B, ~~or Social Work 2205~~, the former **Psychology 2800E**, the former **Psychology 2820E**, the former **Social Work 2205**.

Prerequisite(s): ~~Minimum of 60% [mandatory] in each of~~ Health Sciences 1001A/B and Health Sciences 1002A/B.

Extra Information: 2 lecture hours, 1 laboratory hour.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 3801A/B
MEASUREMENT AND ANALYSIS IN HEALTH SCIENCES)**

An introduction to measurement and analysis in health sciences research, covering topics such as validity, reliability, standard errors, confidence intervals, tests of means, correlation, and linear regression.

Antirequisite(s): Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Kinesiology 3032A/B, MOS 2242A/B, Psychology 2810, Psychology 2820E, Psychology 2830A/B, Psychology 2850A/B, Psychology 2851A/B, Social Work 2207A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B.
Prerequisite(s): **Health Sciences 2800 or** Health Sciences 2801A/B.
Extra Information: 2 lecture hours, 1 laboratory hour.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 3811F/G
~~INTRODUCTION TO~~ QUALITATIVE HEALTH RESEARCH IN PRACTICE**

(Short title: **Qual Health Research**)

~~An introduction to~~ **discussion of** the principles and practices of qualitative research methods and methodologies as they ~~have been~~ **are** applied in the health sciences. Through readings and assignments, students will learn the foundations of qualitative research practice and gain experience crafting research questions and using qualitative research methods.

Antirequisite(s): Family Studies and Human Development 3230A/B, Psychology 3860F/G, Psychology 3861F/G, Sociology 3307F/G, Sociology 3310F/G, Thanatology 3330F/G.
Prerequisite(s): **Family Studies and Human Development 2300F/G or Health Sciences 2800 or** Health Sciences 2801A/B or equivalent.
Extra Information: 3 hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 3840A/B
INTRODUCTION TO HEALTH ECONOMIC EVALUATION METHODS**

This course will introduce basic concepts in methods for the economic evaluation of health interventions, and discuss how they are used to assess “value for money” in health care. Students will learn how to recognize and interpret health economic studies in the literature and develop skills to critically appraise economic evaluations.

Antirequisite(s): ~~Health Sciences 3090B-001 (if taken in 2016 or 2017)~~.
Prerequisite(s): **Health Sciences 2800** or Health Sciences 2801A/B and registration in the third or fourth year of the School of Health Studies; or registration in third or fourth year of the Honours Specialization or Specialization in Global Health Studies at Huron University College.
Extra Information: 3 lecture hours. No prior background in economics is required.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 3910F/G
FUNDAMENTALS OF ACADEMIC COMMUNICATION IN THE HEALTH SCIENCES**

Students will be introduced to a variety of practices in communicating health information in academic and applied settings. Topics include critical appraisal in evidence-based practice, effective proposal preparation, poster presentations, and the practice of preparing brief but informative speeches.

Prerequisite(s): **Health Sciences 2800 or Health Sciences 2801A/B;**
~~R~~egistration in the third or fourth year of the School of Health Studies or the Honours Specialization or Specialization in Global Health Studies at Huron University College.

Extra Information: 3 ~~contact~~ hours. Note: This course is strongly recommended for students considering practica or independent study courses in the future.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 4200F/G
ADVANCED HEALTH PROMOTION**

Application of health promotion programming and principles. Upon completion, students should be able to: determine appropriateness of high-risk and population-based health promotion strategies; identify target populations; compose clear program objectives and goals; conduct needs assessment, epidemiological assessment, social marketing campaign, certain types of evaluations; develop compelling proposals for health promotion interventions.

Prerequisite(s): **Health Sciences 2800 or Health Sciences 2801A/B;** Health Sciences 2250A/B or the former Health Sciences 3200A/B.

Extra Information: 2 lecture hours, 1 seminar hour.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 4205A/B
HEALTH PROMOTION IN PRACTICE**

This practical and hands-on course will develop your conceptual and applied understanding of elements necessary for planning, designing, and conducting community health promotion program evaluations. The course culminates in an opportunity to participate in program evaluation efforts with a community partner.

Prerequisite(s): **Health Sciences 2800 or Health Sciences 2801A/B;**
Registration in the third or fourth year of the School of Health Studies or the Honours Specialization Global Health Studies at Huron University College.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 4240F/G
KNOWLEDGE TRANSLATION IN HEALTH**

The objective of this course is to have students gain an understanding of "how can we support the use of research". In order to accomplish this, the course will address how knowledge is created, the process by which knowledge is implemented and how knowledge is exchanged and evaluated.

Prerequisite(s): **Health Sciences 2800 or 2801A/B;** **R**egistration in the third or fourth year of the School of Health Studies.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 4250A/B
POPULATION HEALTH INTERVENTIONS**

This course will investigate the theory, research, and methods of changing psychological, social, and environmental factors known to influence health promotion. The specific focus will be upon health interventions designed to care for populations throughout the lifespan.

Antirequisite(s): ~~Health Sciences 4091A, section 001 if taken in Fall 2011 or Intersession 2012.~~
Prerequisite(s): **Health Sciences 2800 or Health Sciences 2801A/B;** Health Sciences 2250A/B.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**HEALTH SCIENCES 4770F/G
MATERNAL AND CHILD HEALTH**

This course will explore contemporary issues in maternal and child health. The history of maternal health, parenting, birth, breastfeeding, and maternal decision making will be examined. In addition, contexts in which mothering occurs will be explored.

Antirequisite(s): Health Sciences 4093G, if taken in 2021-22 (section 001) or 2023-24 (section 002).

Prerequisite(s): Health Sciences 2700A/B or Kinesiology 3347A/B or Psychology 2040A/B or Psychology 2410A/B or Psychology 2480E; **Health Sciences 2800** or Health Sciences 2801A/B; Health Sciences 3801A/B.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN HEALTH SCIENCES

Admission Requirements

Completion of first-year requirements with no failures. Students must have a minimum grade of 70% in each of Health Sciences 1001A/B, Health Sciences 1002A/B, ~~and~~ Health Sciences 1111A/B, **and Health Sciences 1300A/B**; a minimum grade of 60% in each of Biology 1201A and Biology 1202B (or Biology 1001A and Biology 1002B); and a minimum cumulative average of 70%.

Students are advised to consult with an academic counsellor prior to selecting their first-year courses to ensure that the appropriate prerequisite courses have been selected to allow registration in courses at the 2000 level or above.

Module

9.0 courses:

~~4.0~~ **3.5** courses **(to be taken in second year)**: Health Sciences 2250A/B, ~~Health Sciences 2300A/B,~~ **Health Sciences 2400A/B**, Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, **Health Sciences 2800** ~~Health Sciences 2801A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

0.5 course (to be taken in third year): Health Sciences 3801A/B.

0.5 course in Health Research Methods from: Health Sciences 3811F/G, Health Sciences 3840A/B, Health Sciences 3910F/G, Health Sciences

4200F/G, Health Sciences 4205A/B, Health Sciences 4240A/B, Health Sciences 4250A/B.

0.5 course in Ecological Health from: Health Sciences 3010F/G, Health Sciences 3025A/B, Health Sciences 3071A/B, Health Sciences 3240A/B, Health Sciences 3250F/G, Health Sciences 3704A/B, Health Sciences 4220F/G, Health Sciences 4505F/G, Health Sciences 4615F/G.

~~4.0~~ 3.0 courses from: **Rehabilitation Sciences**, Health Sciences, **or Communication Sciences and Disorders** at the 2010-level or above (**not otherwise selected**); ~~or Rehabilitation Sciences, or Communication Sciences and Disorders at the 3000-level or above.~~

1.0 course from: Health Sciences at the 4000-level.

Note: a maximum of 12.0 credits (at the 1000-level or higher) from amongst Health Sciences, Rehabilitation Sciences, or Communication Sciences and Disorders courses, may be taken in any Specialization or Honours Specialization degree or module in the School of Health Studies.

Program Revision – Effective September 1, 2024, the following change(s) be made:

SPECIALIZATION IN HEALTH SCIENCES

Admission Requirements

Completion of first-year requirements. Students must have a minimum cumulative average of 65%, with a minimum grade of 60% in each of: Health Sciences 1001A/B, Health Sciences 1002A/B, **and** Health Sciences 1111A/B **and Health Sciences 1300A/B**; Biology 1001A or Biology 1201A and Biology 1002B or Biology 1202B, or the former Biology 1222 or the former Biology 1223; 0.5 additional course.

Module

9.0 courses:

~~4.0~~ **3.5** courses (**to be taken in second year**): Health Sciences 2250A/B, ~~Health Sciences 2300A/B~~, **Health Sciences 2400A/B**, Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, **Health Sciences 2800** ~~Health Sciences 2801A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

0.5 course (to be taken in third year): Health Sciences 3801A/B.

0.5 course in Health Research Methods from: Health Sciences 3811F/G, Health Sciences 3840A/B, Health Sciences 3910F/G, Health Sciences 4200F/G, Health Sciences 4205A/B, Health Sciences 4240A/B, Health Sciences 4250A/B.

0.5 course in Ecological Health from: Health Sciences 3010F/G, Health Sciences 3025A/B, Health Sciences 3071A/B, Health Sciences 3240A/B,

Health Sciences 3250F/G, Health Sciences 3704A/B, Health Sciences 4220F/G, Health Sciences 4505F/G, Health Sciences 4615F/G.

5.0-4.0 courses from: **Rehabilitation Sciences, Health Sciences, or Communication Sciences and Disorders** at the 2010-level or above **(not otherwise selected)**; ~~or Rehabilitation Sciences, or Communication Sciences and Disorders at the 3000-level or above.~~

Note: a maximum of 12.0 credits (at the 1000-level or higher) from amongst Health Sciences, Rehabilitation Sciences, or Communication Sciences and Disorders courses, may be taken in any Specialization or Honours Specialization degree or module in the School of Health Studies.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN HEALTH SCIENCES

Admission Requirements

Completion of first-year requirements. Students must have a minimum cumulative average of 65%, with a minimum grade of 60% in each of: Health Sciences 1001A/B, Health Sciences 1002A/B, **and** Health Sciences 1111A/B **and Health Sciences 1300A/B**; Biology 1001A or Biology 1201A and Biology 1002B or Biology 1202B, or the former Biology 1222 or the former Biology 1223; 0.5 additional course.

Module

6.0 courses:

~~4.0~~ **3.5** courses **(to be taken in second year)**: Health Sciences 2250A/B, ~~Health Sciences 2300A/B,~~ **Health Sciences 2400A/B**, Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, **Health Sciences 2800** ~~Health Sciences 2801A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

0.5 course (to be taken in third year): Health Sciences 3801A/B.

2.0 courses from: Health Sciences at the 2010-level or above.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MINOR IN HEALTH SCIENCES

Admission Requirements

Completion of first-year requirements including: Health Sciences 1001A/B with a mark of at least 60%; Health Sciences 1002A/B with a mark of at least 60%; **and Health Sciences 1300A/B.**

Module

4.0 courses:

3.0 courses from: ~~Health Sciences 2000A/B, Health Sciences 2110A/B,~~ Health Sciences 2250A/B, **Health Sciences 2400A/B,** Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, Health Sciences 2801A/B ~~Health Sciences 3300A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

1.0 courses from: Health Sciences **at** ~~from~~ the 2000 or 3000 level.

Note: Students enrolled in the Minor in Health Sciences may enroll in a maximum of 1.5 Health Sciences credits per academic year.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN HEALTH SCIENCES WITH BIOLOGY

Admission Requirements

Completion of first-year requirements with no failures. Students must have an average of at least 70% with no grade less than 60% in **4.0** ~~4.5~~ principal courses:

- Health Sciences 1001A/B, Health Sciences 1002A/B, **and** Health Sciences 1111A/B, **and Health Sciences 1300A/B** (each with a minimum grade of 70%);
- Biology 1001A or Biology 1201A and Biology 1002B or Biology 1202B, or the former Biology 1222 or the former Biology 1223;
- Chemistry 1301A/B and Chemistry 1302A/B or the former Chemistry 1100A/B and the former Chemistry 1200B;
- ~~1.0 course from: Applied Mathematics 1201A/B or the former Calculus 1201A/B, Calculus 1000A/B, Calculus 1301A/B, Calculus 1500A/B, Calculus 1501A/B, the former Calculus 1100A/B, Mathematics 1225A/B, Mathematics 1228A/B, Mathematics 1229A/B, Mathematics 1600A/B or the former Linear Algebra 1600A/B, Statistical Sciences~~

~~1024A/B or Data Science 1000A/B. If not completed in first year, the mathematics requirement must be completed by the end of second year.~~

Students are advised to consult with an academic counsellor prior to selecting their first-year courses to ensure that the appropriate prerequisite courses have been selected to allow registration in courses at the 2000-level or above.

Module

9.0 courses:

~~4.0~~ **3.5** courses **(to be taken in second year)**: Health Sciences 2250A/B, ~~Health Sciences 2300A/B,~~ **Health Sciences 2400A/B,** Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, **Health Sciences 2800** ~~Health Sciences 2801A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

0.5 course (to be taken in third year): Health Sciences 3801A/B.

0.5 course from: Health Sciences at the 3000-level or above.

0.5 course from: Health Sciences at the 4000-level.

0.5 course: Biochemistry 2280A.

2.0 courses from: Biology 2581A/B, Biology 2382A/B, Biology 2483A/B, Biology 2471A/B, Biology 2485A/B, Biology 2601A/B.

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 3316A/B, Biology 3592A/B, Biology 3601A/B, the former Biology 3332A/B.

0.5 course in Biology at the 2200-level or above, which may include courses listed above not already taken.

Note: a maximum of 12.0 credits (at the 1000-level or higher) from amongst Health Sciences, Rehabilitation Sciences, or Communication Sciences and Disorders courses, may be taken in any Specialization or Honours Specialization degree or module in the School of Health Studies.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN REHABILITATION SCIENCES

Admission Requirements

Registration in the School of Health Studies. Completion of year one course requirements with no grade less than 60%. Students must have a minimum grade of 70% in each of Health Sciences 1001A/B, Health Sciences 1002A/B, ~~and~~ Health Sciences 1111A/B, **and Health Sciences 1300A/B,** a minimum grade of 60% in each of Biology 1201A and Biology 1202B (or Biology 1001A and Biology 1002B), and a minimum cumulative average of 70%.

Enrolment is limited. Meeting the minimum requirement does not guarantee admission.

Module

9.0 courses:

~~4.0~~ **3.5** courses **(to be taken in second year)**: Health Sciences 2250A/B, ~~Health Sciences 2300A/B,~~ **Health Sciences 2400A/B,** Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, **Health Sciences 2800** ~~Health Sciences 2801A/B, Health Sciences 3400A/B, Health Sciences 3801A/B.~~

0.5 course (to be taken in third year): Health Sciences 3801A/B.

1.0 course: Rehabilitation Sciences 3060A/B, ~~and~~ Rehabilitation Sciences 3061A/B (minimum grade of 70%).

4.0 courses from: Health Sciences 3050A/B, Health Sciences 3300A/B, Health Sciences 4074A/B, Physiology 2130, Rehabilitation Sciences or Communication Sciences and Disorders at the 3000-level or above **(not otherwise selected)**; ~~not previously selected.~~

Notes:

- A maximum of 1.0 FCE may be used as a double credit towards a degree with combined modules (e.g. specialization and minor, double major, major and minor).
- A maximum of 12.0 credits (at the 1000-level or higher) from amongst Health Sciences, Rehabilitation Sciences, or Communication Sciences and Disorders courses, may be taken in any Specialization or Honours Specialization degree or module in the School of Health Studies.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN REHABILITATION SCIENCES

Admission Requirements

FOR STUDENTS IN THE SCHOOL OF HEALTH STUDIES

Registration in the School of Health Studies. Students must have a minimum cumulative average of 65%, with a minimum grade of 60% in each of: Health Sciences 1001A/B, ~~and~~ Health Sciences 1002A/B, Health Sciences 1111A/B, **Health Sciences 1300A/B,** and Biology 1001A or Biology 1201A and Biology 1002B or Biology 1202B. Enrolment is limited. Meeting the minimum requirement does not guarantee admission.

FOR STUDENTS IN THE SCHOOL OF KINESIOLOGY

Registration in the School of Kinesiology. Completion of year one course requirements with no grade less than 60%. Students must have an average of at least 70% in the 5.0 course load and 70% in each of the principal courses including **Kinesiology 1060A/B**, Kinesiology 1070A/B or the former Kinesiology 1088A/B, and Kinesiology 1080A/B and Physiology 1021/Physiology 2130 Enrolment is limited. Meeting the minimum requirement does not guarantee admission.

Module

6.0 courses:

~~0.5 course from: Health Sciences 2300A/B, Health Sciences 2330A/B, Kinesiology 2222A/B, the former Anatomy and Cell Biology 2221.~~

0.5 course from: Health Sciences 2700A/B, Health Sciences 2711A/B, Kinesiology 3347A/B, Psychology 2410A/B. Note: Students enrolled in a double major in Health Studies and Rehabilitation Sciences must replace this requirement with 0.5 Rehabilitation Sciences course at the 3000-level or above (not previously selected).

0.5 course **from**: Health Sciences 2801A/B, ~~or~~ Kinesiology 2032A/B ~~or equivalent statistics course at the 2000 level or above.~~

1.0 course: Rehabilitation Sciences 3060A/B, ~~and~~ Rehabilitation Sciences 3061A/B.

~~3.5~~ **4.0** courses from: Health Sciences 3050A/B, Health Sciences 3300A/B, Health Sciences 4074A/B, Kinesiology 3222A/B, Kinesiology 3336A/B, Kinesiology 3457A/B, Kinesiology 3474A/B, Kinesiology 3480A/B, Kinesiology 3550A/B, Kinesiology 4437A/B, Kinesiology 4457A/B, Kinesiology 4474A/B, Kinesiology 4560A/B, the former Kinesiology 4450A/B, Rehabilitation Sciences or Communication Sciences and Disorders courses at the 3000-level or above (**not otherwise selected**), ~~not previously selected.~~

Note: A maximum of 1.0 FCE may be used as a double credit towards a degree with combined modules (e.g. specialization and minor, double major, major and minor).

Program Revision – Effective September 1, 2024, the following change(s) be made:

MINOR IN REHABILITATION SCIENCES

Admission Requirements

FOR STUDENTS IN THE SCHOOL OF HEALTH STUDIES

Registration in the School of Health Studies. Completion of year one course requirements with no grade less than 60%. Students must have an average of at least 70% in the 5.0 course load and 70% in each of the principal courses including Health Sciences 1001A/B, ~~and~~ Health Sciences 1002A/B, **Health Sciences 1111A/B, and Health Sciences 1300A/B**, and Biology 1001A or Biology 1201A and Biology 1002B or Biology 1202B.

FOR STUDENTS IN THE SCHOOL OF KINESIOLOGY

Registration in the School of Kinesiology. Completion of year one course requirements with no grade less than 60%. Students must have an average of at least 70% in the 5.0 course load and 70% in each of the principal courses including **Kinesiology 1060A/B**, Kinesiology 1070A/B or the former Kinesiology 1088A/B, and Kinesiology 1080A/B and Physiology 1021/Physiology 2130 Enrolment is limited. Meeting the minimum requirement does not guarantee admission.

Module

4.0 courses:

~~0.5 course from: Health Sciences 2300A/B, Health Sciences 2330A/B, Kinesiology 2222A/B, the former Anatomy and Cell Biology 2221.~~

0.5 course from: Health Sciences 2700A/B, Health Sciences 2711A/B, Kinesiology 3347A/B, Psychology 2410A/B. **Note: Students enrolled in any other module within the School of Health Studies must replace this requirement with 0.5 Rehabilitation Sciences course at the 3000-level or above (not previously selected).**

1.0 course: Rehabilitation Sciences 3060A/B, ~~and~~ Rehabilitation Sciences 3061A/B.

~~2.0~~ **2.5** courses from: Health Sciences 3050A/B, Health Sciences 3300A/B, Health Sciences 4074A/B, Kinesiology 3222A/B, Kinesiology 3336A/B, Kinesiology 3457A/B, Kinesiology 3474A/B, Kinesiology 3480A/B, Kinesiology 3550A/B, Kinesiology 4437A/B, Kinesiology 4457A/B, Kinesiology 4474A/B, Kinesiology 4560A/B, the former Kinesiology 4450A/B, Rehabilitation Sciences or Communication Sciences and Disorders courses at the 3000-level or above **(not otherwise selected)**, ~~not previously selected.~~

Note: A maximum of 1.0 FCE may be used as a double credit towards a degree with combined modules (e.g. specialization and minor, double major, major and minor).

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN HEALTH SCIENCES / HBA

Admission Requirements

Students apply for the combined program during their HBA1 year. To be eligible for admission for the combined program, students must complete all requirements for the first two years of the **Honours Specialization in Health Sciences BHSc program**, obtain a minimum two year average of 80% and achieve a minimum 70% in Business Administration 2257. Demonstrated participation in extra curricular and/or community activities, leadership and work experience are also required. In addition, students must attain a weighted rounded average of 78% in the HBA1 year. Admission to the combined program is competitive and limited. Upon completion of the combined program students will receive two degrees: a BHSc with an Honours Specialization in Health Sciences and a BA in Honours Business Administration.

Module/Program Information

~~First and Second Years~~

~~All students, including those admitted via the AEO route, must have completed all the requirements of the first and second year curriculum in the Faculty of Health Sciences, as well as Business Administration 2257.~~

First Year

All students, including those admitted via the AEO route, must complete the following first-year requirements:

Health Sciences 1001A/B, Health Sciences 1002A/B, Health Sciences 1111A/B, Health Sciences 1300A/B; Biology 1201A and Biology 1202B or Biology 1001A and Biology 1002B.

Second Year

All students, including those admitted via the AEO route, must complete the following second-year requirements:

4.5 courses: Health Sciences 2250A/B, Health Sciences 2400A/B, Health Sciences 2610F/G, Health Sciences 2700A/B, Health Sciences 2711A/B, Health Sciences 2800; Business Administration 2257.

Year 3 (HBA1)

The third year of the undergraduate program in Business Administration consists of an integrated set of courses (7.5 courses) designed to give a basic understanding of the functions and the interrelationships of the major areas of management, as well as to develop problem-solving and action-planning skills.

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

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

Years 4 and 5 (HBA requirements can be taken over Year 4 or 5, except Business Administration 4569, which must be taken in Year 4)

2.5 courses:

- International Perspective Requirement: Business Administration 4505A/B (0.5 course).
- Corporations and Society Perspectives Requirement: At least one 0.5 course from Business Administration - Corporations and Society designated electives offered during the academic year (Business Administration 4538A/B, Business Administration 4539A/B, Business Administration 4588A/B, Business Administration 4625A/B) or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- Managerial Accounting Requirement: Business Administration 4624A/B (0.5 course).
- Applied Project Requirement: Business Administration 4569 (1.0 course)

2.5 additional business elective courses.

Years 4 and 5 (Health Science)

~~1.0~~ **0.5** course: ~~Health Sciences 3400A/B,~~ Health Sciences 3801A/B.

~~5.0 courses: Health Sciences electives:~~

0.5 course in Health Research Methods from: Health Sciences 3811F/G, Health Sciences 3840A/B, Health Sciences 3910F/G, Health Sciences 4200F/G, Health Sciences 4205A/B, Health Sciences 4240A/B, Health Sciences 4250A/B.

0.5 course in Ecological Health from: Health Sciences 3010F/G, Health Sciences 3025A/B, Health Sciences 3071A/B, Health Sciences 3240A/B, Health Sciences 3250F/G, Health Sciences 3704A/B, Health Sciences 4220F/G, Health Sciences 4505F/G, Health Sciences 4615F/G.

3.0 courses from: Rehabilitation Sciences, Health Sciences, or Communication Sciences and Disorders at the 2010-level or above (not otherwise selected).

1.0 course from: Health Sciences at the 4000-level.

SCHOOL OF KINESIOLOGY

Course Revision – Effective September 1, 2024, the following change(s) be made:

KINESIOLOGY 2032A/B

RESEARCH DESIGN IN HUMAN MOVEMENT SCIENCE

An introduction to the basic aspects of reading, interpreting, evaluating, and presenting research ~~in-order~~ to better understand the research process in physical activity. Measurement and data collection techniques from physical and social science areas of kinesiology will be examined using both quantitative and qualitative research designs employed in movement science.

Antirequisite(s): **Health Sciences 2800**, Health Sciences 2801A/B, **Psychology 2801F/G, Psychology 2802F/G, Psychology 2830A/B, Psychology 2840F/G, the former Psychology 2800E, the former Psychology 2820E.**

Extra Information: 2 lecture hours; 2 laboratory hours every three weeks.

Course Weight: 0.50

FACULTY OF INFORMATION AND MEDIA STUDIES

MEDIA AND COMMUNICATION STUDIES PROGRAM

Course Revision – Effective September 1, 2024, the following change(s) be made:

MEDIA, INFORMATION AND TECHNOCULTURE 3776A/B

SOUND ON: AUDIO STORYTELLING AND PODCASTING

~~PODCASTING AND AUDIO JOURNALISM~~

(Short title: **Audio Storytelling, Podcasting**)

This ~~is an~~ introductory course **explores in audio as a media platform production.** **Students acquire skills in recording, editing, and mixing audio talk content. Using journalistic principles, they will learn about storytelling, interviewing, and content structure, and will apply these skills to produce an audio story and pitch and create an** ~~As well as reviewing the theory and practice of podcasting and audio journalism, it will provide students with the opportunity to produce, record, and edit a pilot episode for their own~~ original podcast.

Antirequisite(s): ~~MIT 3663A/B if taken in 2015-16, 2016-2017, 2017-2018 or 2018-19.~~

Extra Information: 3 lecture hours.

Course Weight: 0.50

SCHULICH SCHOOL OF MEDICINE & DENTISTRY

DEPARTMENT OF ANATOMY AND CELL BIOLOGY

Course Revision – Effective September 1, 2024, the following change(s) be made:

ANATOMY AND CELL BIOLOGY 2200A/B SYSTEMIC ANATOMY OF THE HUMAN BODY

An introduction to the gross anatomical structures and functional connections of the core systems in the human body, including the musculoskeletal, circulatory, respiratory, gastrointestinal, urinary, and reproductive systems. Demonstrations reinforce and extend the lectures.

Antirequisite(s): **Health Sciences 1300A/B**, Health Sciences 2300A/B, Health Sciences 2330A/B, Health Sciences 3300A/B, **Kinesiology 1060A/B**, Kinesiology 2222A/B, Kinesiology 3222A/B, **Nursing 1330A/B**, the former Anatomy and Cell Biology 2221, the former Anatomy and Cell Biology 3319.
Extra Information: 2 lecture hours, 1 demonstration hour. This is not a laboratory course.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

ANATOMY AND CELL BIOLOGY 4200A CADAVERIC ANATOMY: MUSCULOSKELETAL

Advanced human anatomy course which integrates lecture material with cadaveric laboratory dissections to explain how physical injuries and clinical impairments are associated with the spatial and functional relationships between the major structures of the upper and lower limbs (bones, muscles, ligaments, innervation and vasculature).

Antirequisite(s): The former Anatomy and Cell Biology 2221.

Prerequisite(s): **Registration in Year 4 and** either (a minimum mark of 80% in Anatomy and Cell Biology 2200A/B) or (a minimum mark of 80% in one of Health Sciences 2300A/B, Kinesiology 1060A/B or Kinesiology 2222A/B; plus a minimum mark of 80% in one of Health Sciences 3300A/B or Kinesiology 3222A/B).

Extra Information: 2 lecture hours, 3 laboratory hours. Restricted to Year 4 students in Honours Specialization modules in Kinesiology and basic medical science modules.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**ANATOMY AND CELL BIOLOGY 4201B
CADAVERIC ANATOMY: ORGANS & SYSTEMS**

An advanced human anatomy course which integrates lecture material with cadaveric laboratory dissections to explain the structural and functional relationships between the various organs that comprise the cardiovascular, respiratory, digestive, urogenital and central nervous systems. Special attention is given to clinical conditions associated with these anatomical systems.

Antirequisite(s): The former Anatomy and Cell Biology 2221.

Prerequisite(s): **Registration in Year 4 and** either (a minimum mark of 80% in Anatomy and Cell Biology 2200A/B) or (a minimum mark of 80% in one of Health Sciences 2300A/B, Kinesiology 1060A/B or Kinesiology 2222A/B; plus a minimum mark of 80% in one of Health Sciences 3300A/B or Kinesiology 3222A/B).

Extra Information: 2 lecture hours, 3 laboratory hours. Restricted to Year 4 students in Honours Specialization modules in Kinesiology and basic medical science modules.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN MEDICAL CELL BIOLOGY

Module

11.0 courses:

0.5 course: Biochemistry 2280A with a mark of at least 65%.

0.5 course from: Chemistry 2213A/B, ~~or~~ Chemistry 2273A.

0.5 course from: Chemistry 2223B, ~~or~~ Chemistry 2283G.

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

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

1.5 courses: Anatomy and Cell Biology 3309, Anatomy and Cell Biology 3329A/B or the former Anatomy and Cell Biology 4429A.

1.0 course from: (Anatomy and Cell Biology 2200A/B and **either** Anatomy and Cell Biology 3200A/B **or Anatomy and Cell Biology 3201A/B**), Physiology 3120, ~~or~~ the former Anatomy and Cell Biology 3319.

1.0 course: Biochemistry 3381A, ~~and~~ Biochemistry 3382A with marks of at least 70% in each.

0.5 course from: Biology 3316A/B, Physiology 3140A with a mark of at least 70% in the course taken.

0.5 course from: Biochemistry 3380G, Biology 3326F/G with a mark of at least 70% in the course taken.

1.0 course: Anatomy and Cell Biology 4410A, Anatomy and Cell Biology 4411B.

0.5 course from: Anatomy and Cell Biology 4200A, Anatomy and Cell Biology 4201B, Anatomy and Cell Biology 4425A/B, Anatomy and Cell Biology 4451F/G, Anatomy and Cell Biology 4452A/B, Anatomy and Cell Biology 4461B.

1.5 courses: Anatomy and Cell Biology 4480E (Research Project = 1.5 courses).

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN MEDICAL CELL BIOLOGY

Module

6.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2382A/B.

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

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

0.5 course from: Biology 3316A/B, Physiology 3140A.

1.5 courses: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3309.

0.5 course from: Anatomy and Cell Biology 3200A/B, **Anatomy and Cell Biology 3201A/B**, ~~or~~ Anatomy and Cell Biology 3329A/B, Anatomy and Cell Biology 3700F/G.

1.0 course from: Anatomy and Cell Biology 4200A, Anatomy and Cell Biology 4201B, Anatomy and Cell Biology 4410A, Anatomy and Cell Biology 4411B, Anatomy and Cell Biology 4425A/B, Anatomy and Cell Biology 4451F/G, Anatomy and Cell Biology 4452A/B, Anatomy and Cell Biology 4461B, the former Anatomy and Cell Biology 4429A.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MINOR IN MEDICAL CELL BIOLOGY

Module

4.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course: Chemistry 2213A/B.

0.5 course: Biology 2382A/B.

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

2.0 courses from: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3309, Anatomy and Cell Biology 3329A/B, Anatomy and Cell Biology 4410A, Anatomy and Cell Biology 4411B, Anatomy and Cell Biology 4451F/G, Anatomy and Cell

Biology 4452A/B, Anatomy and Cell Biology 4461B, one of Biology 3316A/B or Physiology 3140A, the former Anatomy and Cell Biology 3319, the former Anatomy and Cell Biology 4429A.

Note: the following 4000-level courses in Anatomy and Cell Biology require a minimum mark of 70% in their prerequisite courses: Anatomy and Cell Biology 4410A, Anatomy and Cell Biology 4411B, Anatomy and Cell Biology 4452A/B, and Anatomy and Cell Biology 4461B. See COURSES in the Academic Calendar.

DEPARTMENT OF BIOCHEMISTRY

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN BIOCHEMISTRY AND CANCER BIOLOGY

Module

10.5 courses:

- 0.5 course: Biochemistry 2280A with a mark of at least 65%.
- 1.0 course: Biology 2382A/B, Biology 2581A/B.
- 0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.
- 0.5 course from: Chemistry 2213A/B, Chemistry 2273A.
- 0.5 course from: Chemistry 2223B, Chemistry 2283G.
- 0.5 course: Microbiology and Immunology 2500A/B.
- 0.5 course: Medical Biophysics 3518B, ~~or~~ the former Medical Biophysics 2582B.
- 1.0 course: Biochemistry 3381A, Biochemistry 4450A.
- 1.0 course: Pharmacology 3620.
- 0.5 course from: Biochemistry 3382A, Chemistry 3393A/B, Microbiology and Immunology 3300B (see notes below).
- 1.0 course from: Anatomy and Cell Biology 3309, Pathology 3500.
- 0.5 course from: Biochemistry 3380G, Physiology and Pharmacology 3000E (see notes below). A mark of at least 70% is required in the course taken.
- 1.5 courses from: Anatomy and Cell Biology 4461B (**see note**), Medical Biophysics 4720B, Microbiology and Immunology ~~4300A~~ **4310A (see note)**, Pharmacology 4360A/B, the former Biochemistry 4455G, **the former Microbiology and Immunology 4300A**. ~~See notes below.~~
- 1.0 course: Biochemistry 4955E. See notes below.

Notes:

1. Students may substitute the former Biochemistry 4486E for Biochemistry 4955E. The inclusion of the former Biochemistry 4486E will increase the module by 0.5 course.

2. Biochemistry 3380G requires both Biochemistry 3381A and Biochemistry 3382A as prerequisite courses; the prerequisite for Physiology and Pharmacology 3000E includes a minimum average of 75% in the previous year. The inclusion of Physiology and Pharmacology 3000E will increase the module by 0.5 course.
- 3.- For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).
4. Microbiology and Immunology ~~4300A~~ **4310A** requires a minimum mark of 70% in Microbiology and Immunology 3300B as a prerequisite.
5. Anatomy and Cell Biology 4461B requires a minimum mark of 70% in either Anatomy and Cell Biology 3309 or Pathology 3500 as a prerequisite.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN BIOCHEMISTRY OF INFECTION AND IMMUNITY

Module

10.5 courses:

- 0.5 course: Biochemistry 2280A with a mark of at least 65%.
- 0.5 course from: Chemistry 2213A/B, ~~or~~ Chemistry 2273A.
- 0.5 course from: Chemistry 2223B, ~~or~~ Chemistry 2283G.
- 1.5 courses: Biology 2290F/G, Biology 2382A/B, Biology 2581A/B.
- 0.5 course from: Biology 2244A/B, ~~or~~ Statistical Sciences 2244A/B.
- 1.5 courses: Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A and~~ Microbiology and Immunology 3300B, **and Microbiology and Immunology 3400A or the former Microbiology and Immunology 3100A**, with marks of at least 70% in each.
- 1.0 course: Biochemistry 3381A, ~~and~~ Biochemistry 3382A with marks of at least 70% in each.
- 0.5 course from: Biochemistry 3380G, Microbiology and Immunology 3610F, with a mark of at least 70%.
- 0.5 course from: Anatomy and Cell Biology 3700F/G, Biochemistry 3390B.
- 1.0 course from: Microbiology and Immunology 4100A, Microbiology and Immunology 4200B **(see note), Microbiology and Immunology 4310A or the former** Microbiology and Immunology 4300A.
- 1.0 course from: Biochemistry 3385B, Biochemistry 4410A, Biochemistry 4415B, Biochemistry 4420A, Biochemistry 4425B.
- 1.5 courses from: Biochemistry 4483E, Biochemistry 4484E or Microbiology and Immunology 4970E.

Notes:

1. The prerequisite for Microbiology and Immunology 4200B is a mark of at least 70% in Microbiology and Immunology 3200B or the former Microbiology and Immunology 3100A.

2. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).

DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

Course Introduction – Effective September 1, 2024, the following course be introduced:

BIOSTATISTICS 3400A INTRODUCTION TO BIOSTATISTICAL COMPUTING

(Short title: Biostatistical Computing)

This course introduces students to the use of both commercial software (i.e., SAS and Stata) and open-source software (R via RStudio) for data management, exploratory data analysis, data generation, and inferential statistical analysis. Examples will be used throughout the course to illustrate the advantages and disadvantages of each software.

Prerequisite(s): Biology 2244A/B or Statistical Sciences 2244A/B, and Epidemiology 2200A/B with marks of at least 75% in each; and registration in a module in Epidemiology and Biostatistics.

Extra Information: 2 lecture hours, 1 laboratory hour.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

EPIDEMIOLOGY 2200A/B INTRODUCTION TO EPIDEMIOLOGY

The calculation and interpretation of basic epidemiologic measures, the strengths and weaknesses of various study designs, and the critical appraisal of published medical and epidemiologic studies.

Pre- or Corequisite(s): One of the following: Biology 2244A/B, ~~Psychology 2810~~, **Psychology 2811A/B**, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, **the former Psychology 2810**.

Extra Information: 2 lecture hours, 1 tutorial hour.

Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**EPIDEMIOLOGY 4500B
HEALTH SERVICES RESEARCH METHODS**

This course exposes students to the current research design and analysis methods employed in health services research, both in Canada and internationally.

Prerequisite(s): Biostatistics 3100A and Epidemiology 3200A with marks of at least 70% in each.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**BIostatISTICS 4115B
SURVIVAL ANALYSIS AND ITS APPLICATIONS**

An introduction to survival analysis and its applications in a variety of areas including: 1) genetic epidemiology; 2) clinical trials; and 3) cost-effectiveness analysis. This course will provide students with contemporary analysis skills applicable to jobs in the pharmaceutical industry, in government organizations and in other health technology assessment settings.

Prerequisite(s): Biostatistics 3110B and Epidemiology 3200A, with a minimum mark of 70% in each.

Extra Information: 2 lecture hours and 1 laboratory hour.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN EPIDEMIOLOGY AND BIostatISTICS

Module

11.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course: Chemistry 2213A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B with a mark of at least 75%.

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

0.5 course: Epidemiology 2200A/B with a mark of at least 75%.

1.0 course from the Social Science Subject List (see below).

1.0 course: Biostatistics 3100A, Biostatistics 3110B with a mark of at least 70% in each.

1.0 course: Epidemiology 3200A Epidemiology 3210B, with a mark of at least 70% in each.

~~2.0 courses: Epidemiology 3330F/G, Epidemiology 4310A/B, Epidemiology 4320A/B, (one of Epidemiology 4500B or Epidemiology 4600A).~~

1.5 courses: Epidemiology 3330F/G, Epidemiology 4310A/B, Epidemiology 4320A/B.

0.5 course from: Biostatistics 3400A, Epidemiology 4600A, the former Epidemiology 4500B.

1.0 course from: ~~Biostatistics 4115B~~, Epidemiology 3315B, Epidemiology 4600A (if not used above), Epidemiology 4615B, Epidemiology 4715**A/B**, **the former Biostatistics 4115B.**

1.5 course: Epidemiology and Biostatistics 4900E (Research Project = 1.5 courses).

SOCIAL SCIENCE SUBJECT LIST:

Students must complete 1.0 senior course from one of the subject areas below (e.g. 1.0 course - one full course or two half courses in Economics). Note that (i) two half courses from two different subject areas will not satisfy this requirement, and (ii) some courses may require a prerequisite.

Anthropology, Economics, Geography, History, Indigenous Studies, Political Science, Psychology, or Sociology.

Notes:

1. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).
2. Students are encouraged to take at least one of the following ethics courses as options: Philosophy 2715F/G – Health Care Ethics, Philosophy 3730F/G – Research Ethics

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN EPIDEMIOLOGY AND BIOSTATISTICS

Module

6.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course from: Biology 2382A/B, Biology 2581A/B.

0.5 course from: Biology 2244A/B or Statistical Sciences 2244A/B, with a minimum mark of 75%.

0.5 course: Epidemiology 2200A/B with a minimum mark of 75%.

1.0 course: Biostatistics 3100A with a minimum mark of 70%, Biostatistics 3110B.

1.0 course: Epidemiology 3200A with a minimum mark of 70%, Epidemiology 3210B.

1.0 course from: ~~Biostatistics 4115B~~, Epidemiology 4310A/B, Epidemiology 4320A/B, Epidemiology 4600A, Epidemiology 4615B, **the former Biostatistics 4115B** (see note 2).

1.0 course from: Biology 2485A/B, Biology 3592A/B, Microbiology and Immunology 2500A/B, Pathology 3500, Pathology 4400A/B, additional courses in Biostatistics and Epidemiology at the 3000- and 4000-level.

Notes:

1. To register in Year 4 of a degree containing this module, students must satisfy the Admission Requirements for the module and have the prerequisite to register in at least two of ~~Biostatistics 4115B~~, Epidemiology 4310A/B, Epidemiology 4320A/B, Epidemiology 4600A, and Epidemiology 4615B.
2. ~~Biostatistics 4115B requires a minimum mark of 70% in Biostatistics 3110B~~. Epidemiology 4615B requires a minimum mark of 70% in either Epidemiology 4600A or Economics 2261A/B.
3. BSc and BMSc students completing the Major in Epidemiology and Biostatistics in addition to another module must adhere to the Common Course Policy if the same courses at the 2000- to 4000-level appear in more than one of the modules (see faculty websites for details).
4. Students are encouraged to take at least one of the following ethics courses as options: Philosophy 2715F/G – Health Care Ethics, Philosophy 3730F/G – Research Ethics.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Course Introduction – Effective September 1, 2024, the following course be introduced:

MICROBIOLOGY AND IMMUNOLOGY 3200B VIROLOGY

Virology elucidates the complexities of viruses, informing strategies for disease prevention, vaccine development, and therapeutic interventions, playing a pivotal role in advancing public health and medical research. Lectures will focus on the understanding of viral genomes, structures, and replication and students will participate in a collaborative inquiry-based term project.

Antirequisite(s): the former Microbiology and Immunology 3100A.

Prerequisite(s): Biochemistry 2280A, Biology 2581A/B and Microbiology and Immunology 2500A/B. Pre- or Corequisite(s): It is recommended, but not required, that Biochemistry 3381A be taken previously.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**MICROBIOLOGY AND IMMUNOLOGY 3400A
BACTERIOLOGY**

Bacteriology, essential for understanding diseases, guiding medical interventions, and advancing biotechnology, critically influences human health and environmental sustainability. Lectures will focus on bacterial cell structure and function; bacterial culture, growth, development, and division; bacterial genetics and information flow; bacterial metabolism and diversity; and roles of bacteria in the environment.

Antirequisite(s): the former Microbiology and Immunology 3100A.
Prerequisite(s): Biochemistry 2280A, Biology 2581A/B and Microbiology and Immunology 2500A/B. Pre- or Corequisite(s): It is recommended, but not required, that Biochemistry 3381A be taken previously.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Introduction – Effective September 1, 2024, the following course be introduced:

**MICROBIOLOGY AND IMMUNOLOGY 4310A
INFLAMMATION AND IMMUNOLOGY IN DISEASE**

(Short title: Inflammation and Immunology)

With recent technological advances, our understanding of the immune underpinnings of inflammatory and immunological diseases continues to evolve. In this course, students will explore modern perspectives that challenge existing paradigms of inflammatory diseases.

Antirequisite(s): the former Microbiology and Immunology 4300A.
Prerequisite(s): Microbiology and Immunology 3300B with a mark of at least 70%.
Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**MICROBIOLOGY AND IMMUNOLOGY 3610F
MICROBIOLOGY LABORATORY**

Laboratory techniques used in the broad discipline of microbiology, including bacteriology and virology. Laboratory exercises include the staining, biochemical characteristics and identification of live bacteria, plus genetic techniques used to study microorganisms. This course runs parallel to, and applies basic principles acquired in, Microbiology and Immunology **3400A** ~~3100A~~.

Prerequisite(s): Biochemistry 2280A with a mark of at least 65%; Biology 2581A/B; Chemistry 2213A and Chemistry 2223B with marks of at least 60% in each; Microbiology and Immunology 2500A/B with a mark of at least 60%.

Pre-or Corequisite(s): ~~Biochemistry 3381A~~; **Microbiology and Immunology 3400A or the former** Microbiology and Immunology 3100A. **It is recommended, but not required, that Biochemistry 3381A be taken previously or concurrently.**

Extra Information: 1 lecture/tutorial hour, 3 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**MICROBIOLOGY AND IMMUNOLOGY 4100A
BACTERIAL PATHOGENESIS**

A course offering an integrated view of bacterial pathogenesis mechanisms. Topics focus mainly on medically important bacterial pathogens, with an emphasis on how they cause disease and the host's immune defense mechanisms to these infectious microbes.

Prerequisite(s): **Microbiology and Immunology 3400A or the former** Microbiology and Immunology 3100A, with a mark of at least 70%.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**MICROBIOLOGY AND IMMUNOLOGY 4200B
MOLECULAR VIROLOGY**

Molecular mechanisms involved in viral replication and host pathogen relationships. This course focuses on animal and human viruses and their host-pathogen relationships including immune evasion strategies, mechanisms of host restriction, evolutionary relationships, disease pathogenesis and therapeutic applications of viral vectors.

Prerequisite(s): **Microbiology and Immunology 3200B or the former** Microbiology and Immunology 3100A, with a mark of at least 70%.

Extra Information: 2 lecture hours, 2 tutorial hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**MICROBIOLOGY AND IMMUNOLOGY 4400B
MICROBIAL APPLICATIONS**

Microbes are all around us and, whereas some cause disease, the vast majority are innocuous and often utilized to benefit humankind. This course highlights essential roles of microorganisms in food production, biotechnology, and human health.

Prerequisite(s): **(one of Microbiology and Immunology 3400A or the former Microbiology and Immunology 3100A)** and Microbiology and Immunology 3610F, with marks of at least 70% in each.

Extra Information: 2 lecture hours, 2 lab/tutorial hours.
Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**MICROBIOLOGY AND IMMUNOLOGY 3100A
MICROBIOLOGY**

The fundamental aspects of the ecology, structure, physiology, replication, pathogenesis and genetics of bacteria and viruses. Topics include the usages of microbes in health and industry, foodborne and waterborne bacterial diseases, parasitic diseases and global health aspects, gene therapy vectors and vaccines.

Prerequisite(s): Biochemistry 2280A; Biology 2581A/B; Microbiology and Immunology 2500A/B. Pre-or Corequisite(s): It is recommended that Biochemistry 3381A be taken concurrently or previously.

Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**MICROBIOLOGY AND IMMUNOLOGY 4300A
CLINICAL IMMUNOLOGY**

This course covers advanced concepts on cellular and molecular regulation of the immune system and their application to clinical conditions including autoimmune diseases, transplantation, and cancer. Recent advances and challenges in immunotherapeutics, immunology research, and immune mechanisms are highlighted.

Prerequisite(s): Microbiology and Immunology 3300B with a mark of at least 70%.

Extra Information: 2 lecture hours, 1 lecture/tutorial hour.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN MICROBIOLOGY AND IMMUNOLOGY

Module

6.0 courses:

0.5 course: Biochemistry 2280A with a mark of at least 65%.

1.0 course: Chemistry 2213A/B, Chemistry 2223B with marks of at least 60% in each.

1.0 course: Biology 2382A/B, Biology 2581A/B.

0.5 course: Microbiology and Immunology 2500A/B with a mark of at least 60%.

~~0.5 course: Biochemistry 3381A.~~

~~1.0 course: Microbiology and Immunology 3100A, Microbiology and Immunology 3300B with a mark of at least 70% in each.~~

1.0 course: Microbiology and Immunology 3200B, Microbiology and Immunology 3610F.

0.5 course: Microbiology and Immunology 3300B with a mark of at least 70%.

0.5 course: Microbiology and Immunology 3400A or the former Microbiology and Immunology 3100A (see notes), with a mark of at least 70%.

~~0.5 course: Microbiology and Immunology 3610F.~~

1.0 course: from: Microbiology and Immunology 4100A, Microbiology and Immunology 4200B, **Microbiology and Immunology 4310A** ~~Microbiology and Immunology 4300A~~, Microbiology and Immunology 4400B, **the former Microbiology and Immunology 4300A** ~~the former Microbiology and Immunology 4700B~~.

Notes:

1. A minimum mark of 60% in Microbiology and Immunology 2500A/B is included in the prerequisite for Microbiology and Immunology 3610F. Students must have a minimum mark of 60% in Microbiology and Immunology 2500A/B to be allowed to register in Year 3 of the Major in Microbiology and Immunology.

~~2. Minimum marks of 70% in Microbiology and Immunology 3100A and Microbiology and Immunology 3300B are included in the prerequisites for Microbiology and Immunology 4100A, Microbiology and Immunology 4200B and Microbiology and Immunology 4300A. Since two of these three 4000-level half courses must be taken, students must satisfy the~~

~~Admission Requirements for the module and have a minimum mark of 70% in both Microbiology and Immunology 3100A and Microbiology and Immunology 3300B to be allowed to register in Year 4 of the Major in Microbiology and Immunology.~~

2. The prerequisites for Microbiology and Immunology 4100A, Microbiology and Immunology 4310A and Microbiology and Immunology 4400B include marks of at least 70% in Microbiology and Immunology 3300B and Microbiology and Immunology 3400A (or the former Microbiology and Immunology 3100A). Since two of the four 4000-level half courses indicated above must be taken and enrolment in Microbiology and Immunology 4200B is more limited than in the other three courses, students must satisfy the admission requirements for the module and have a minimum mark of 70% in both Microbiology and Immunology 3300B and Microbiology and Immunology 3400A or the former Microbiology and Immunology 3100A to be allowed to register in Year 4 of the Major in Microbiology and Immunology. Students wishing to take Microbiology and Immunology 4200B must have completed either Microbiology and Immunology 3200B or the former Microbiology and Immunology 3100A with a mark of at least 70%.

3. BSc and BMSc students completing the Major in Microbiology and Immunology in addition to another module must adhere to the Common Course Policy if the same courses at the 2000- to 4000-level appear in more than one of the modules (see faculty websites for details).

4. Students who have completed the former Microbiology and Immunology 3100A will replace Microbiology and Immunology 3200B with Biochemistry 3381A.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MINOR IN MICROBIOLOGY AND IMMUNOLOGY

Module

4.0 courses:

0.5 course: Chemistry 2213A/B.

0.5 course: Biochemistry 2280A.

1.0 course: Biology 2382A/B, Biology 2581A/B.

~~1.5 courses: Microbiology and Immunology 2500A/B, Microbiology and Immunology 3100A, Microbiology and Immunology 3300B.~~

0.5 course: Microbiology and Immunology 2500A/B.

1.0 course from: Microbiology and Immunology 3200B, Microbiology and Immunology 3300B, Microbiology and Immunology 3400A, the former Microbiology and Immunology 3100A.

0.5 course from: Biochemistry 3381A, Biochemistry 3385B, Biology 2290F/G, Biology 3218F/G, Biology 3355A/B, Biology 3592A/B, Biology 3595A/B, Chemistry 2223B, Epidemiology 2200A/B, Health Sciences 2000A/B, **an additional half course in Microbiology and Immunology**, ~~Microbiology and Immunology 3500B, Microbiology and Immunology 3610F, Microbiology and Immunology 3620G~~, Pathology 3500 (see note), Pharmacology 2060A/B, ~~the former Biology 3332A/B.~~

Note: If students take Pathology 3500, then the module becomes 4.5 courses.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN MICROBIOLOGY AND IMMUNOLOGY WITH PATHOLOGY

Module

11.0 courses:

0.5 course: Biochemistry 2280A with a mark of at least 65%.

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

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

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

0.5 course: Biochemistry 3381A.

2.5 courses: Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A or the former Microbiology and Immunology 3100A**, ~~Microbiology and Immunology 3610F~~, ~~and~~ Microbiology and Immunology 3620G, with marks of at least 70% in each.

1.0 course: Pathology 3500 with a mark of at least 70%.

0.5 course from: Microbiology and Immunology 4100A, ~~or~~ Microbiology and Immunology 4200B **(see notes)**.

0.5 course: **Microbiology and Immunology 4310A, the former** Microbiology and Immunology 4300A.

0.5 course: Pathology 4200A/B.

0.5 course from: Anatomy and Cell Biology 4461B, Pathology 4400A/B.

1.5 courses from: Pathology 4980E (Seminar and Research Project), ~~or~~ Microbiology and Immunology 4970E (Research Project and Seminar).

Notes:

1. The prerequisite for Microbiology and Immunology 4200B is a mark of at least 70% in either Microbiology and Immunology 3200B or the former Microbiology and Immunology 3100A.

2. 4. A course in physiology (e.g. Physiology 2130, Physiology 3120 or Physiology and Pharmacology 2000) is highly recommended.

3.2. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).

DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE

Course Revision – Effective September 1, 2024, the following change(s) be made:

PATHOLOGY 3500

INTRODUCTION TO HUMAN PATHOLOGY

An introduction to human pathology - the study of disease. Students will be introduced to general mechanisms of disease (e.g. inflammation, injury, neoplasia, disturbed hemodynamics). These general processes will be described and applied to specific diseases of organ systems.

Antirequisite(s): **Nursing 2440A/B, the former** Pathology 2420A.

Prerequisite(s): Biochemistry 2280A; Biology 2382A/B.

Extra Information: 2 lecture hours.

Course Weight: 1.00

Course Revision – Effective September 1, 2024, the following change(s) be made:

PATHOLOGY 4500B

INTRODUCTION TO FORENSIC SCIENCES

Examination of the medicolegal framework investigating the nature and circumstance of certain deaths. These forensic investigations involve experts in different disciplines assisting the coroner and police in resolving cases. Forensic pathology examines the effects of disease, particularly in sudden death, and effects of various external agents on the human body.

Prerequisite(s): Pathology 3500 with a mark of at least 70% **and registration in the Honours Specialization in Pathology.**

Extra Information: 2 lecture hours.

Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**PATHOLOGY 2420A
PATHOLOGY FOR NURSING STUDENTS**

A survey course providing an understanding of fundamental mechanisms of disease processes. The first half of the course presents pathogenesis of diseases common to all organ systems; the second half concentrates on disease in most of the major organ systems including cardiovascular, respiratory, gastrointestinal, genitourinary, nervous and musculoskeletal systems.

Extra Information: 2 lecture hours/wk or equivalent online delivery with 1 tutorial hour/wk. Enrollment limited to students in the Western BScN programs.
Course Weight: 0.50

Course Withdrawal – Effective September 1, 2024, the following course be withdrawn:

**PATHOLOGY 4450A
MOLECULAR GENETICS OF HUMAN CANCER**

Mutation of specific human genes subverts normal cellular physiology creating characteristic alterations called 'hallmarks' that fuel the development of cancer. The underlying processes that alter cellular pathways and gene function will be discussed. Cancer models and molecular therapies will be related to the cancer hallmarks.

Antirequisite(s): Biochemistry 4450A.
Prerequisite(s): Biology 2581A/B; and either Pathology 3500 or Biochemistry 3381A.
Extra Information: 2 lecture hours. Cross-listed with Biochemistry 4450A.
Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN PATHOLOGY

Module

11.0 courses:

0.5 course: Biochemistry 2280A.
0.5 course: Biology 2382A/B.
0.5 course from: Biology 2290F/G, Biology 2581A/B.
0.5 course: Chemistry 2213A/B.
0.5 course from: Chemistry 2211A/B, Chemistry 2214A/B, Chemistry 2223B.
0.5 course from: Biology 2244A/B, ~~or~~ Statistical Sciences 2244A/B.

1.0 course: Pharmacology 3620.
1.0 course from: Anatomy and Cell Biology 3309, ~~or~~ (Anatomy and Cell Biology 2200A/B and one of Anatomy and Cell Biology 3200A/B or Microbiology and Immunology 2500A/B), ~~or~~ the former Anatomy and Cell Biology 3319.
1.0 course: Physiology 3120.
1.0 course: Pathology 3500 with a mark of at least 70%.
0.5 course from: Anatomy and Cell Biology 4200A, Anatomy and Cell Biology 4201B, Biology 3316A/B, Chemistry 2272F, Epidemiology 2200A/B, Physiology 3140A, Pathology 4425A/B, ~~Pathology-4450A~~, the former Medical Health Informatics 4100F, the former Medical Health Informatics 4110G, **the former Pathology 4450A**.
1.0 course: Pathology 4400A/B, Pathology 4500B.
1.0 course from: One Health 4100F/G, Pathology 3700F/G, Pathology 4200A/B, Pathology 4600B, the former Medical Sciences 4100F/G.
1.5 courses: Pathology 4980E (Research Project = 1.5 courses).

Note: For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN PATHOLOGY

Module

6.0 courses:

0.5 course: Biochemistry 2280A.
0.5 course: Biology 2382A/B.
0.5 course from: Chemistry 2213A/B, Biology 2244A/B, ~~or~~ Statistical Sciences 2244A/B.
1.0 course from: Anatomy and Cell Biology 3309, ~~or~~ (Anatomy and Cell Biology 2200A/B and one of Anatomy and Cell Biology 3200A/B or Microbiology and Immunology 2500A/B), ~~or~~ the former Anatomy and Cell Biology 3319.
1.0 course: Physiology 3120.
1.5 courses: Pathology 3500 with a minimum mark of 70%, Pathology 4400A/B.
1.0 course from: Microbiology and Immunology 2500A/B, One Health 4100F/G, Pathology 3700F/G, Pathology 4200A/B, Pathology 4425A/B, ~~Pathology-4450A~~, Pathology 4600B, Physiology 3140A, the former Medical Health Informatics 4100F, the former Medical Health Informatics 4110G, the former Medical Sciences 4100F/G, **the former Pathology 4450A**.

Note: A maximum of 1.0 “common course” can be double-counted towards two Major modules in a BMSc degree. See the Common Course Policy on the BMSc website for more information.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN BIOCHEMISTRY AND PATHOLOGY OF HUMAN DISEASE

Module

10.5 courses:

- 0.5 course: Biochemistry 2280A with a mark of at least 65%.
- 1.0 course: Biology 2382A/B, Biology 2581A/B.
- 0.5 course from: Chemistry 2213A/B, ~~or~~ Chemistry 2273A.
- 0.5 course from: Chemistry 2223B, ~~or~~ Chemistry 2283G.
- 0.5 course from: Biology 2290F/G, Chemistry 2211A/B, Chemistry 2214A/B, Chemistry 2374A, Chemistry 2384B, Microbiology and Immunology 2500A/B, Biochemistry 3390B.
- 0.5 course from: Biology 2244A/B, ~~or~~ Statistical Sciences 2244A/B.
- 1.0 course: Pathology 3500 with a mark of at least 70%.
- 1.5 courses: Biochemistry 3381A, Biochemistry 3382A and Biochemistry 3380G, with marks of at least 70% in each.
- 2.0 courses from: Biochemistry 3385B, Biochemistry 3386B, Biochemistry 4410A, Biochemistry 4415B, Biochemistry 4420A, Biochemistry 4425B.
- 0.5 course from: Biochemistry 4450A, ~~Pathology 4450A~~, the former Biochemistry 4463B, **the former Pathology 4450A**.
- 0.5 course from: Pathology 4200A/B, Pathology 4400A/B.
- 1.5 courses from: Biochemistry 4483E or Pathology 4980E (Research Project = 1.5 courses).

Notes:

1. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).
2. A course in Physiology (e.g. one of Physiology 2130, Physiology and Pharmacology 2000 or Physiology 3120) is recommended.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN MEDICAL BIOINFORMATICS

Module

11.0 courses:

- 0.5 course: Biochemistry 2280A.
- 1.0 course: Biology 2382A/B, Biology 2581A/B.
- 0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B.

0.5 course: Computer Science 2120A/B (**see note below about Computer Science 1026A/B and Computer Science 2120A/B**). ~~If Computer Science 1026A/B was taken, an additional half course must be taken from the picklists of modular courses numbered 2000 and above to replace Computer Science 2120A/B.~~

0.5 course: Computer Science 2121A/B.

0.5 course from: Mathematics 1229A/B, Mathematics 1600A/B.

0.5 course from: Data Science 2000A/B, Statistical Sciences 2857A/B.

0.5 course from: Computer Science 3120A/B, Computer Science 3121A/B.

0.5 course: Medical Bioinformatics 3100A/B.

1.0 course: Pathology 3500.

1.0 course: Physiology 3120.

1.0 course from: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3309, Biochemistry 3385B, Epidemiology 2200A/B, Medical Biophysics 3503G, Medical Biophysics 3505F, Microbiology and Immunology 2500A/B, Pharmacology 3620.

0.5 course from: Computer Science 4411A/B, Data Science 3000A/B, Biology 4289A/B, One Health 4100F/G, the former Computer Science 4414A/B.

1.0 course from: Medical Bioinformatics 4650F/G, Medical Bioinformatics 4750F/G or Microbiology and Immunology 4750F/G, Medical Bioinformatics 4850G.

1.5 courses: Medical Bioinformatics 4980E (Research Project = 1.5 courses)

Notes:

1. If one of Physics 1202A/B or Physics 1502A/B was taken to satisfy the 1000-level admission requirements, then students will take Computer Science 2120A/B as a modular course. If Computer Science 1026A/B was used to satisfy the 1000-level admission requirements, then an additional half course must be taken from one of the picklists of modular courses numbered 2000 and above to replace Computer Science 2120A/B as a modular requirement. Students who completed one of Physics 1202A/B or Physics 1502A/B (with a mark of at least 60%) and Computer Science 1026A/B, however, can use Computer Science 1026A/B with a mark of at least 60% in place of Computer Science 2120A/B as a modular course.

2. Students planning to take Statistical Sciences 2857A/B should note that this course requires either Calculus 1301A/B with a minimum mark of 85% or Calculus 1501A/B with a minimum mark of 60% as the prerequisite.

3. Students planning to take Data Science 3000A/B should note that this course requires Mathematics 1600A/B as the prerequisite.

4. See the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM) for information about admission to the Honours Specialization modules in Year 4, including which modular courses must be completed prior to Year 4.

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

Course Revision – Effective March 1, 2024, the following change(s) be made:

PHARMACOLOGY 2060A/B

INTRODUCTORY PHARMACOLOGY AND THERAPEUTICS

A course for students in the BSc in Nursing 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 3620, ~~Physiology and Pharmacology 2000~~.

Pre-or Corequisite(s): Registration in the BSc in Nursing.

Extra Information: 1 tutorial hour (optional). Only offered online (Distance Studies). Restricted to students in the Bachelor of Science in Nursing.

Course Weight: 0.50

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN PHYSIOLOGY

Module:

10.0 courses:

0.5 course: Biochemistry 2280A.

1.5 courses: 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.

1.5 courses: Physiology 3120, ~~and~~ Physiology 3140A.

1.0 course: Physiology and Pharmacology 3000E (see Notes).

1.0 course from: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biology 2471A/B, Biology 2601A/B, Biology 3338A/B, Biology 3592A/B, Biology 3595A/B, Chemistry 2223B, Medical Biophysics 3501A, Medical Biophysics 3503G, ~~Medical Biophysics 3505F, Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, the former Anatomy and Cell Biology 3319, ~~the former Medical Biophysics 3505F, the former Medical Biophysics 3507G, the former Microbiology and Immunology 3100A.~~

1.5 courses: Physiology and Pharmacology 4980E (Seminar and Research Project = 1.5 courses).

2.0 additional courses in Physiology, Physiology and Pharmacology, at the 4000-level.

Notes:

1. A minimum average of 75% in the Fall/Winter of the most recent academic year is included in the prerequisite for Physiology and Pharmacology 3000E.
2. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).
3. Students may not complete both an Honours Specialization in Physiology and a Major in Pharmacology since these two modules contain too many common courses.

BASIC MEDICAL SCIENCES UNDERGRADUATE EDUCATION

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS SPECIALIZATION IN INTERDISCIPLINARY MEDICAL SCIENCES (IMS)

Module

10.0 courses:

0.5 course: Biochemistry 2280A.

1.5 courses: 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.

2.0 courses from Group 1.

(these 2.0 Group 1 courses cannot all be from the same subject area, e.g., these 2.0 Group 1 courses cannot all be Anatomy and Cell Biology courses).

2.0 additional courses from: courses from Groups 1-3 and courses numbered 2100 -3999 in Chemistry. These 2.0 courses must include 0.5 – 1.0 course from Group 3. A maximum of 1.0 course from Group 3 and a maximum of 0.5 course in Chemistry can be included within these 2.0 courses.

1.0 course from: Medical Sciences 4990E, ~~or~~ Medical Sciences 4995E (or the former Medical Sciences 4900F/G/Z and 0.5 4000-level course from the basic medical science subject areas listed below).

0.5 course: Medical Sciences 4930F/G.

0.5 course from: Medical Sciences 4200A/B, the former Medical Sciences 4300A/B.

1.0 additional courses at the 4000-level from the following basic medical science subject areas: Anatomy and Cell Biology, Biochemistry, Biostatistics, Epidemiology, Medical Bioinformatics, Medical Biophysics, Medical Sciences, Microbiology and Immunology, One Health, Pathology, Pharmacology, Physiology, Physiology and Pharmacology.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, **the former Medical Biophysics 3505F**, **the former Medical Biophysics 3507G**, **the former Microbiology and Immunology 3100A** ~~any of the former courses: the former Epidemiology and Biostatistics 2200A/B, the former Medical Biophysics 3336F/G.~~

Group 2 (see notes below): **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, Medical Bioinformatics 3100A/B, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319.~~

Group 3: Biochemistry 3380G, ~~Medical Biophysics 3970Z~~, **Medical Biophysics 3980E**, Medical Sciences 3990E, Microbiology and Immunology 3610F, Microbiology and Immunology 3620G, Physiology and Pharmacology 3000E, the former Medical Sciences 3900F/G/Z, **the former Medical Biophysics 3970Z**.

Notes:

1. Chemistry 2223B is a prerequisite for the following Group 1 and 3 courses: Biochemistry 3381A, Biochemistry 3382A and **Microbiology and Immunology 3610F** ~~Microbiology and Immunology 3620G~~.
2. For the specific courses that must be completed before Year 4, see the Weighted Average Chart (MODULES OFFERED IN THE BMSc PROGRAM).
3. See UNDERGRADUATE COURSE INFORMATION for course requisites and the BMSc website for information about constraints (priority and restricted access) for all basic medical science courses.

Program Revision – Effective September 1, 2024, the following change(s) be made:

SPECIALIZATION IN INTERDISCIPLINARY MEDICAL SCIENCES (IMS)

Module

9.5 courses:

0.5 course: Biochemistry 2280A.

1.5 courses: 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.

2.0 courses from Group 1 (these 2.0 Group 1 courses cannot all be from the same subject area, e.g., these 2.0 Group 1 courses cannot all be Anatomy and Cell Biology courses).

2.0 additional courses from: courses from Groups 1-3 and courses numbered 2100 -3999 in Chemistry. These 2.0 courses must include 0.5 – 1.0 course from Group 3. A maximum of 1.0 course from Group 3 and a maximum of 0.5 course in Chemistry can be included within these 2.0 courses.

0.5 course: Medical Sciences 4931F/G.

2.0 additional courses at the 4000-level from at least two of the following subject areas: Anatomy and Cell Biology, Biochemistry, Biostatistics, Epidemiology, Medical Bioinformatics, Medical Biophysics, Medical Sciences, Microbiology and Immunology, One Health, Pathology, Pharmacology, Physiology, Physiology and Pharmacology. Note: a maximum of 1.5 of these 4000-level courses can be selected from one subject area.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, **the former Medical Biophysics 3505F**, **the former Medical Biophysics 3507G**, **the former Microbiology and Immunology 3100A** ~~any of the former courses: the former Epidemiology and Biostatistics 2200A/B, the former Medical Biophysics 3336F/G.~~

Group 2 (see Notes below): **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, Medical Bioinformatics 3100A/B, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Microbiology and Immunology

3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319~~.

Group 3: Biochemistry 3380G, ~~Medical Biophysics 3970Z~~, **Medical Biophysics 3980E**, Medical Sciences 3990E, Microbiology and Immunology 3610F, Microbiology and Immunology 3620G, Physiology and Pharmacology 3000E, ~~one of~~ ~~of~~ the former Medical Sciences 3900F/G/Z, **the former Medical Biophysics 3970Z**.

Notes:

1. Chemistry 2223B is a prerequisite for the following Group 1 and 3 courses: Biochemistry 3381A, Biochemistry 3382A and **Microbiology and Immunology 3610F** ~~Microbiology and Immunology 3620G~~.
2. See UNDERGRADUATE COURSE INFORMATION for course requisites and the BMSc website for information about constraints (priority and restricted access) for all basic medical science courses.

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN INTERDISCIPLINARY MEDICAL SCIENCES (IMS)

Module

6.0 courses:

0.5 course: Biochemistry 2280A.

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

0.5 course: Biology 2290F/G.

0.5 course from: Biology 2382A/B, Biology 2581A/B.

0.5 course: Chemistry 2213A/B.

2.5 courses from: Groups 1 and 2 (see below) with a minimum of 1.5 courses selected from Group 1 (see Note #1 below).

0.5 course: Medical Sciences 4931F/G.

0.5 course at the 4000-level from any of the following subject areas: Anatomy and Cell Biology, Biochemistry, Biostatistics, Epidemiology, Medical Bioinformatics, Medical Biophysics, Medical Sciences, Microbiology and Immunology, One Health, Pathology, Pharmacology, Physiology, Physiology and Pharmacology.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and

Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, ~~the former Medical Biophysics 3505F~~, ~~the former Medical Biophysics 3507G~~, ~~the former Microbiology and Immunology 3100A~~ ~~any of the former courses: the former Epidemiology and Biostatistics 2200A/B, the former Medical Biophysics 3336F/G.~~

Group 2: **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, Medical Bioinformatics 3100A/B, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319~~.

Notes:

1. Of these 2.5 courses from Groups 1-2, a maximum of 2.0 courses can be from one subject area (e.g. a maximum of 2.0 can be Biochemistry courses). It is not mandatory to complete any Group 2 courses in the Major in IMS. A maximum of 1.0 course from the courses listed in Group 3 of the Honours Specialization in IMS may be used in place of 1.0 course from Group 2 in the Major in IMS. See the IMS website for more information about the Major in IMS.
2. A maximum of 1.0 "common course" can be double-counted toward two modules in a BSc degree. See the IMS website for more information about the Common Course Policy as it relates to the Major in IMS.
3. See UNDERGRADUATE COURSE INFORMATION for course requisites and the BSc website for information about constraints (priority and restricted access) for all basic medical science courses.

Program Revision – Effective September 1, 2024, the following change(s) be made:

HONOURS BSc INTERDISCIPLINARY MEDICAL SCIENCES/HBA

Years 4 and 5: BSc requirements for the Honours Specialization in Interdisciplinary Medical Sciences (IMS)

Year 4

2.0 courses from Group 1 (these 2.0 Group 1 courses cannot all be from the same subject area, e.g., these 2.0 Group 1 courses cannot all be Anatomy and Cell Biology courses).

2.0 additional courses from: courses from Groups 1-3 and courses numbered 2100 -3999 in Chemistry. These 2.0 courses must include 0.5 – 1.0 course from Group 3. A maximum of 1.0 course from Group 3 and a maximum of 0.5 course in Chemistry can be included within these 2.0 courses.

A maximum of 0.5 course from either Chemistry numbered 2100-3999 or Groups 1-2 that is completed prior to admission to the combined program course may be used toward the Year 4 BSc (IMS) requirements. Any additional course(s) completed prior to admission to the combined program may be used toward the Year 4 BSc (IMS) requirements only if an additional optional course(s) is completed. A maximum of 0.5 of the courses listed in the Year 4 BSc (IMS) requirements may be deferred until Year 5.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, **the former Medical Biophysics 3505F**, **the former Medical Biophysics 3507G**, **the former Microbiology and Immunology 3100A** ~~any of the former courses: the former Epidemiology and Biostatistics 2200A/B, the former Medical Biophysics 3336F/G.~~

Group 2: **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, Medical Bioinformatics 3100A/B, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319.~~

Group 3: Biochemistry 3380G, ~~Medical Biophysics 3970Z~~, **Medical Biophysics 3980E**, Medical Sciences 3990E, Microbiology and Immunology 3610F, Microbiology and Immunology 3620G, Physiology and Pharmacology 3000E, the former Medical Sciences 3900F/G/Z, **the former Medical Biophysics 3970Z**.

Notes:

1. Chemistry 2223B is a prerequisite for the following Group 1 and 3 courses: Biochemistry 3381A, Biochemistry 3382A and **Microbiology and Immunology 3610F** ~~Microbiology and Immunology 3620G~~.

2. See UNDERGRADUATE COURSE INFORMATION for the requisites for 3000- and 4000-level courses, and the BSc website for information about constraints (priority and restricted access) for all basic medical science courses.

3. The breadth requirements of a BSc degree must be satisfied. The essay requirement is satisfied with modular courses. See "Graduation Requirements for Honours Bachelor degrees".

Program Revision – Effective September 1, 2024, the following change(s) be made:

MAJOR IN MEDICAL SCIENCES

Module

6.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course from: Chemistry 2213A/B, ~~or~~ Chemistry 2273A.

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

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

3.0 courses from: Groups 1 and 2 with a minimum of 1.0 course selected from Group 1. A maximum of 2.0 courses from one subject area (e.g. a maximum of 2.0 courses in Biochemistry) can be used towards this Group requirement.

0.5 course from: Chemistry numbered 2100-3999 or an additional 0.5 course from Group 1 or 2.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, ~~Medical Biophysics 3336F/G,~~ Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F,~~ ~~Medical Biophysics 3507G,~~ Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A,~~ **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, **the former Medical Biophysics 3505F, the former Medical Biophysics 3507G, the former Microbiology and Immunology 3100A** ~~the former Epidemiology and Biostatistics 2200A/B.~~

Group 2: **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, **Medical Bioinformatics 3100A/B**, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B,~~ Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology

2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319~~.

Notes:

1. It is not mandatory to complete any Group 2 courses in the Major in Medical Sciences. A maximum of 1.0 of the following courses may be used in place of up to 1.0 course from Group 2: 4000-level half courses from the basic medical sciences (Anatomy and Cell Biology, Biochemistry, Biostatistics, Epidemiology, Medical Bioinformatics, Medical Biophysics, Medical Sciences, Microbiology and Immunology, **One Health**, Pathology, Pharmacology, Physiology) and courses listed in Group 3 of the Honours Specialization in IMS.
2. See UNDERGRADUATE COURSE INFORMATION for the course requisites and the BMSc website for information about constraints (priority and restricted access) for all basic medical science courses (www.schulich.uwo.ca/bmsc)

Program Revision – Effective September 1, 2024, the following change(s) be made:

MINOR IN MEDICAL SCIENCES

Module

4.0 courses:

0.5 course: Biochemistry 2280A.

0.5 course: Chemistry 2213A/B.

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

2.0 courses from: Groups 1 and 2 (see below), with at least 1.0 course selected from Group 1 and no more than 1.5 courses from one subject area.

Group 1: Anatomy and Cell Biology 2200A/B, Anatomy and Cell Biology 3200A/B, Anatomy and Cell Biology 3309, Biochemistry 3381A, Biochemistry 3382A, Biostatistics 3100A, Biostatistics 3110B, Epidemiology 2200A/B, Epidemiology 3200A, Medical Biophysics 3330F/G, ~~Medical Biophysics 3336F/G~~, Medical Biophysics 3501A, **Medical Biophysics 3467B**, Medical Biophysics 3503G, **Medical Biophysics 3720A**, ~~Medical Biophysics 3505F~~, ~~Medical Biophysics 3507G~~, Microbiology and Immunology 2500A/B, ~~Microbiology and Immunology 3100A~~, **Microbiology and Immunology 3200B**, Microbiology and Immunology 3300B, **Microbiology and Immunology 3400A**, Pathology 3500, Pharmacology 3620, Physiology 3120, Physiology 3140A, **the former Medical Biophysics 3505F**, **the former Medical Biophysics 3507G**, **the former Microbiology and Immunology 3100A** ~~the former Epidemiology and Biostatistics 2200A/B~~.

Group 2: **Anatomy and Cell Biology 3201A/B**, Anatomy and Cell Biology 3329A/B, Biochemistry 3385B, Biochemistry 3386B, Biochemistry 3390B, Epidemiology 3210B, Epidemiology 3315B, Epidemiology 3330F/G, **Medical Bioinformatics 3100A/B**, Medical Biophysics 3518B, **Medical Biophysics 3820B**, ~~Medical Biophysics 3645A/B~~, Medical Biophysics 3645A, Microbiology and Immunology 3500B, Neuroscience 2000, One Health 3300A/B, One Health 3600A/B, Pharmacology 2060A/B, **the former Medical Biophysics 3645A/B**, ~~the former Anatomy and Cell Biology 3319~~.

Notes:

1. See UNDERGRADUATE COURSE INFORMATION for the course requisites and the BMSc website for information about constraints (priority and restricted access) for all basic medical science courses.
2. A maximum of 1.0 course from Group 3 in the Honours Specialization in IMS may be used in place of 1.0 course from Group 2 in the Minor in Medical Sciences.

FACULTY OF SCIENCE

DEPARTMENT OF EARTH SCIENCES

Course Revision – Effective September 1, 2024, the following change(s) be made:

EARTH SCIENCES 2222A/B

DATA ANALYSIS IN EARTH SCIENCES ~~ANALYTICS FOR EARTH SCIENCE~~

(Short title: **Data Analysis Earth Sciences**)

An introduction to data analysis, digital signal processing, machine learning and visualization techniques. Topics include: statistical methods to characterize uni- to multi-variate data, spatial data, time series and Fourier analyses, digital signal processing and filtering, data analytics and machine learning applications. Geophysics and environmental science applications will be emphasized. ~~An introduction to data analysis and visualization techniques, including: data types and transformation, statistical methods to characterize uni- to multi-variate data, spatial data and interpolative mapping, time series and Fourier transformation, and signal processing. Earth science applications will be emphasized. Includes MATLAB basics for data and time series analysis and visualization.~~

Antirequisite(s): Computer Science 2034A/B, Computer Science 2035A/B.

Prerequisite(s): 0.5 course from Calculus 1000A/B, Calculus 1500A/B, Mathematics 1225A/B, Numerical and Mathematical Methods 1412A/B, the former Applied Mathematics 1412A/B, the former Applied Mathematics 1413.

Extra Information: 2 lecture hours, 3 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

EARTH SCIENCES 3023F/G

A FIELD COURSE IN LAND HEALING AND RESPONSIBILITY

This is an advanced community-based experiential course that combines in-class discussions with community-based research. Students will train in methodologies and ethics of working with First Nations communities. Areas of research may include but not limited to ecological restoration, land claims, self-government, education, health and wellness and urban issues.

Antirequisite(s): ~~Geography 3000Y~~, Geography 3001F/G, Indigenous Studies 4023F/G.

Prerequisite(s): Registration in any module in the Department of Earth Sciences.

Extra Information: 2 lecture hours. Cross-listed with Indigenous Studies 4023F and Geography 3001F/G. Class meets F 8:30-12:30 from September 16 to October 21 which is equivalent to 2 lecture hours per week as listed in the Academic Calendar.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**EARTH SCIENCES 3340A/B
WATERSHED HYDROLOGY**

Occurrence, movement, and behavior of water in the hydrologic cycle. The development of quantitative representations of hydrologic processes (e.g., precipitation, evapotranspiration, runoff, infiltration and unsaturated flow, saturated flow, surface flow). Analysis of stream response hydrographs. Statistical models of predicting flood responses and water resource management.

Prerequisite(s): Any 1.0 course equivalent at the 1000 level from Calculus, Mathematics, Applied Mathematics, **Numerical and Mathematical Methods, Data Science**, or Statistical Sciences, ~~or the former Linear Algebra 1600A/B.~~
Extra Information: 2 lecture hours, 2 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**EARTH SCIENCES 4420A/B
GEOPHYSICAL ~~FORWARD AND INVERSE MODELLING METHODS~~**
(Short title: **Geophysical Inverse Modelling**)

Introduction to model parameter estimation, forward modelling, and data inversion methods in geophysics and related fields. Topics include: discrete linear inverse problems, linear regression and least-squares solutions, maximum likelihood methods, singular value decomposition, uniqueness and accuracy, ill-conditioning and regularization, Bayesian formulation of inverse problems, non-linear regression and non-linear inverse problems. ~~An introduction to potential theory and methods of interpreting geophysical data through the construction of forward models, optimization of misfit surfaces, and inversion.~~

Prerequisite(s): Calculus 2302A/B or Calculus 2502A/B.
Extra Information: 2 lecture hours, 3 laboratory hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**EARTH SCIENCES 4451Z
GEOPHYSICAL FIELD TECHNIQUES**

~~An off-campus~~ Geophysical field school providing ~~an~~ introduction to **the practical application of various** geophysical techniques (~~including~~ gravity, magnetics, **electrical, electromagnetics, seismics, or ground penetrating radar**) ~~and electromagnetic methods. Classroom lectures, with accompanying outdoor sessions and field exercises.~~ **On-campus lectures with outdoor field sessions, and off-campus field days with industry participation. Applicable to earth sciences, environmental (geo)science, anthropology, and civil engineering.** ~~Offered in co-operation with other Universities, with participation from geophysical contractors. The course meets professional registration requirements for Field Techniques (Geophysics).~~

Prerequisite(s): Earth Sciences 2220A/B or permission of the Department
Extra Information: A ten day field course **typically** in early September. Note: Students must inform the **designated instructor** ~~Department~~ of their intention to register in the course prior to May 1st, and register prior to August 15th. The field course is subsidized by the department. ~~Students will pay \$650 in 2014, payable by May 1st. The cost may increase by \$25 every year thereafter.~~
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**EARTH SCIENCES 4462A/B
GLACIAL GEOLOGY AND CLIMATE** ~~GLACIAL AND QUATERNARY GEOLOGY~~

Explore glacier types, dynamics, budgets. Study glacial movement and erosional depositional landforms. Examine glacial sediments, facies, environments. Review sea-ice, ice shelves, fjords, lakes, bogs, paleosols, and permafrost. Investigate Quaternary timescale, climate change, dating methods, deep-sea records, ice-core stratigraphy, and Holocene climate. Analyze climate-human interactions, ancient glaciations, and glacial resources.

~~The last 2 million years of Earth history. Glacial-interglacial cycles, global sea level and climate changes, and their causes. Extent and dynamics of North American Pliocene ice sheets. Dating methods, Quaternary resources, waste disposal, air photo interpretation and surficial mapping. Laboratory exercises, field project, field trip.~~

Prerequisite(s): 0.5 course from Earth Sciences 2260A/B, Earth Sciences 3314A/B, Geography 2330A/B, Geography 3334A/B, Geography 3350A/B, the former Geography 3333A/B, or permission of the Department.
Extra Information: 2 lecture hours, 3 ~~seminar~~/laboratory hours.
Course Weight: 0.50

FACULTY OF SOCIAL SCIENCE

DEPARTMENT OF PSYCHOLOGY

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3130A/B PSYCHOLOGY OF THINKING

Theoretical and empirical studies on problem solving, reasoning, concept formation, thinking and cross-cultural variations in thinking processes.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B.

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3138F/G HUMAN MEMORY

A review of data and theories from cognitive psychology and cognitive neuroscience that bear on how people form, retain, and retrieve memory representations. Emphasis will be placed on studies that address cognitive processes, but some research on brain mechanisms will be covered as well.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B, Psychology 2220A/B, Psychology 2221A/B, Neuroscience 2000. Minimum grade of 60% required in all prerequisite courses.

Extra Information: 3 lecture/discussion hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3139A/B
COGNITIVE SCIENCE**

Cognitive Science combines psychology, artificial intelligence, neuroscience, neuropsychology, linguistics, philosophy, and anthropology to study how people think. Students will learn about how cognitive scientists approach problems in a diverse, integrated manner to help us understand how people learn and process, for example, concepts and language.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B, Psychology 2220A/B, Psychology 2221A/B, Neuroscience 2000.

Extra Information: 3 lecture/discussion hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3140F/G
BILINGUALISM**

This course will examine how people acquire, process, and use a second language. Topics will include simultaneous and sequential bilingualism, the critical period hypothesis, theories of bilingual language representation, cross-language transfer, language selection and switching, simultaneous interpreting, cognitive consequences of bilingualism, the bilingual brain, and bilingual education.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former

Psychology 2800E and the former Psychology 2810, and one of Psychology 2134A/B, Psychology 2135A/B.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3141F/G
LANGUAGE DEVELOPMENT**

This course covers how children learn and use their first language. Major topics include the stages of language development, how these phenomena can inform theories of language representation and use in humans, the biological bases of language learning, and the relationship between first and second language learning.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2134A/B, Psychology 2135A/B, Psychology 2410A/B.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3143F/G
READING ABILITY AND DISABILITY**

This course examines the cognitive processes involved in the development of reading ability and skilled reading. Topics will include predictors of reading success, theories of reading ability, eye movements, reading comprehension, and dyslexia.

Antirequisite(s): the former Psychology 3142E.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former

Psychology 2800E and the former Psychology 2810, and one of Psychology 2134A/B, Psychology 2135A/B, Psychology 2410A/B.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3184F/G

RESEARCH IN THE PSYCHOLOGY OF LANGUAGE

This course will introduce students to the variety of research methods used in the psychological study of language. Methods used to study reading processes, speech perception and comprehension, and spoken language production will be covered.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B or Psychology 2135A/B, PLUS registration in third or fourth year Honours Specialization in Psychology or Honours Specialization in Developmental Cognitive Neuroscience. Third or fourth year Psychology Majors and Psychology Special Students who receive 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810), plus 60% or higher in one of Psychology 2115A/B, Psychology 2134A/B or Psychology 2135A/B also may enrol in this course.

Extra Information: 2 lecture hours, 2 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3185F/G
RESEARCH IN COGNITIVE PSYCHOLOGY**

Cognitive theorists face a unique problem: the understanding of mental structures and processes that are not directly observable. A variety of methods used to address this problem will be surveyed, by introducing research questions of enduring interest. Students will be expected to use the techniques learned. Cognitive domains to be examined include attention, memory, problem-solving, and thinking.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, or Psychology 2135A/B, Psychology 2220A/B, Psychology 2221A/B, or Neuroscience 2000 PLUS registration in third or fourth year Honours Specialization in Psychology, or Honours Specialization in Developmental Cognitive Neuroscience or Honours Specialization in Neuroscience. Third or fourth year Psychology Majors and Psychology Special Students who receive 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810), plus 60% or higher in one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B, Psychology 2220A/B, Psychology 2221A/B, or Neuroscience 2000 also may enrol in this course.

Extra Information: 2 lecture hours, 2 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3195F/G
SPECIAL TOPICS IN COGNITIVE PSYCHOLOGY**

Topic available in Department.

Prerequisite(s): **Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B.** Minimum grade of 60% required in all prerequisite courses.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3209F/G
NEUROSCIENCE OF MOTIVATION AND EMOTION**

An examination of motivation and emotion from a variety of perspectives. Biological, cognitive, developmental, evolutionary, physiological and social approaches to motivation and emotion may be considered.

Antirequisite(s): Psychology 2280E.

Prerequisite(s): **Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.**

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3221F/G
ANIMAL BEHAVIOR**

An introduction to the scientific study of animal behavior, emphasizing evolutionary and ecological influences on behavior. Recent research from the field and the laboratory will be used to illustrate such topics as communication, foraging, orientation, territoriality, mate choice, altruism, and animal cognition.

Antirequisite(s): Biology 3436F/G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**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): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3225A/B

SEX DIFFERENCES IN HUMAN BRAIN AND BEHAVIOUR

An evolutionary and biological approach to understanding the differences between men and women. Topics include sociobiological explanations of sex roles; gonadal and brain sexual differentiation; hormonal factors in aggression, sexual preference and gender identity; sex differences in cognitive function; genetic and hormonal influences on sexually dimorphic brain function.

Antirequisite(s): Psychology 3215F/G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000. Minimum grade of 60% required in all prerequisite courses.

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3226A/B

HORMONES AND BEHAVIOUR

An in-depth review of current research problems in the field and the biological mechanisms by which hormones can affect behaviour. Topics may include hormones and brain development, sexual differentiation, sexual and courtship behaviour, parental behaviour, aggressive behaviour, stress, food intake, and endocrine disorders in humans.

Antirequisite(s): Psychology 3215F/G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and a grade of at least 70% in one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/discussion hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3230F/G
COGNITIVE NEUROSCIENCE OF MUSIC**

An in-depth examination of music and the brain. After reviewing neuroscience techniques, we will discuss music and evolutionary theories, emotional responses, comparisons to language, effects on children, and changes of brain structure in musicians.

Antirequisite(s): ~~Psychology 3190F if taken in Fall of 2011.~~

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B, Psychology 2220A/B, Psychology 2221A/B, Neuroscience 2000.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3285F/G
RESEARCH IN BEHAVIOURAL NEUROSCIENCE**

An introduction to techniques used to investigate the neural and endocrine bases of behavior.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000, PLUS registration in third or fourth year Honours Specialization in Psychology or Honours Specialization in Developmental

Cognitive Neuroscience, Honours Specialization in Neuroscience, or Honours Specialization in Animal Behavior. Third or fourth year Psychology Majors and Psychology Special Students who receive 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810), plus 60% or higher in one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000 also may enrol in this course.

Extra Information: 1 lecture hour/3 laboratory hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3295F/G
SPECIAL TOPICS IN BEHAVIORAL AND COGNITIVE NEUROSCIENCE
Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3301F/G
CLINICAL PSYCHOLOGY

This course offers a survey of major topics in clinical psychology, including assessment and intervention approaches; experimental psychopathology; ethical, professional and theoretical issues; and emerging trends.

Antirequisite(s): Psychology 2301A/B.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2310A/B or Psychology 2320A/B.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3312F/G STRESS AND COPING

This course explores theories and research on stress and coping. It examines biological, psychological, individual and social factors that affect how people cope with stress on both acute and chronic timescales; positive and negative aspects of stress; resiliency; and critical evaluation of findings on coping and recovery.

Antirequisite(s): Health Sciences 4208A/B.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3316F/G PSYCHOLOGICAL TRAUMA

This course covers the psychobiological theories and research aimed at helping us understand the diversity of human responses to traumatic life experiences, including sexual assault, childhood maltreatment and war. **Antirequisites:** ~~Psychology 3390G if taken in 2012/13 or 2013/14.~~

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.
Extra Information: 3 seminar hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3390F/G
SPECIAL TOPICS IN CLINICAL PSYCHOLOGY
Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.
Extra Information: 3 seminar hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3440F/G
DEVELOPMENTAL COGNITIVE NEUROSCIENCE

An introduction to the way in which genetic and experiential factors interactively contribute to the emergence of adaptive neural structures underlying visual processing, face perception, number processing, language, memory, and executive functions.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former

Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3441F/G

FRONTAL CORTEX AND THE DEVELOPMENT OF COGNITIVE CONTROL

An in-depth theoretical and methodological examination of the association between the development of cognitive control and age-related changes in prefrontal cortex structure and function.

Prerequisite(s): Both Psychology 2801F/G (**or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (**or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B**), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3442F/G

MIND, BRAIN AND EDUCATION

The course reviews data from recent cognitive neuroscience research on educationally-relevant cognitive functions. Discussions will focus on how such studies may be useful to education and how, in turn, insights from education may inform developmental cognitive neuroscience research.

Prerequisite(s): Both Psychology 2801F/G (**or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (**or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B**), or the former Psychology 2820E, or both the former

Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3443F/G

DEVELOPMENT OF THE MATHEMATICAL BRAIN

An examination of how children develop numerical abilities from infancy onwards, focussing on the roles of memory, spatial ability, and language. The course will also examine well-publicized studies on the poor levels of performance in mathematics among North American students, and compare this to student performance in other countries.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3444F/G

DEVELOPMENT OF THE SOCIAL BRAIN

An in-depth examination of the social brain and how it develops. Topics include the cognitive and neural development of face processing, social attention, and theory of mind. In addition to typical development, we will examine cases of atypical development, including "faceblindness" in developmental prosopagnosia and "mindblindness" in autism.

Antirequisite(s): ~~Psychology 3490G if taken in 2014-15.~~

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical

Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B or Neuroscience 2000.

Extra Information: 3 lecture/seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3445F/G
SOCIAL DEVELOPMENT**

Human survival and reproduction depends on the ability to form and maintain social relationships with others. This course reviews biological, cognitive, social, and contextual processes that enable human children to “get along” with others, and processes associated with social maladaptation. Topics include attachment, emotion regulation, aggression, prosocial behavior, and gender.

Antirequisite(s): Psychology 3781F/G.

Prerequisite(s): **Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former** Psychology 2820E or both **the former** Psychology 2800E and **the former** Psychology 2810, and one of Psychology 2115A/B, Psychology 2134A/B, Psychology 2135A/B. Minimum grade of 60% required in all prerequisites courses.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3480F/G
RESEARCH IN DEVELOPMENTAL PSYCHOLOGY**

Survey of research methods in developmental psychology including problems in the study of age differences, issues of reliability and validity, and interpretations of causality. Students will gather data involving children using observational or interview methods.

Prerequisite(s): Both Psychology 2801F/G **(or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G)** and Psychology 2811A/B **(or one of Biology 2244A/B, Economics 2122A/B, Economics**

2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B or Psychology 2410A/B, PLUS registration in third or fourth year Honours Specialization in Psychology or Honours Specialization in Developmental Cognitive Neuroscience. Third or fourth year Psychology Majors and Psychology Special Students who receive 70% or higher in both Psychology 2801F/G **(or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G)** and Psychology 2811A/B **(or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B),** or 70% or higher in the former Psychology 2820E (or 60% or higher in **the former Psychology 2800E and the former Psychology 2810**), plus 60% or higher in one of Psychology 2040A/B or Psychology 2410A/B also may enrol in this course. Extra Information: 2 lecture hours, 2 laboratory hours. Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3485F/G

RESEARCH IN DEVELOPMENTAL COGNITIVE NEUROSCIENCE

An introduction to the design, administration, and interpretation of developmental cognitive neuroscience research. Students receive instruction in the formulation of developmental research questions and the choice of appropriate methods, and training in the analysis, and interpretation of pediatric evoked response potential (ERP) and functional magnetic resonance imaging (fMRI) data.

Prerequisite(s): Both Psychology 2801F/G **(or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G)** and Psychology 2811A/B **(or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B),** or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B, or Neuroscience 2000, PLUS registration in third or fourth year Honours Specialization in Psychology, Honours Specialization in Developmental Cognitive Neuroscience or, Honours Specialization in Neuroscience. Third or fourth year Psychology

Majors and Psychology Special Students who receive 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810), plus 60% or higher in one of Psychology 2040A/B, Psychology 2410A/B, Psychology 2220A/B, Psychology 2221A/B, or Neuroscience 2000 also may enrol in this course.
Extra Information: 4 lecture/laboratory hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3490F/G

SPECIAL TOPICS IN DEVELOPMENTAL PSYCHOLOGY

An in-depth analysis of research in selected topics of developmental psychology. Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.
Extra Information: 3 seminar hours.
Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3580F/G

RESEARCH IN PERSONALITY ASSESSMENT

Addresses reliability and validity issues as well as several contemporary topics in assessment such as multitrait-multimethod analysis, personality testing in personnel selection, and control of dissimulation or "faking" of personality test responses. The course includes a hands-on research component.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology

2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, PLUS registration in third or fourth year Honours Specialization in Psychology or Honours Specialization in Developmental Cognitive Neuroscience. Third or fourth year Psychology Majors and Psychology Special Students who earn 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810) also may enrol in this course.

Extra Information: 2 lecture hours, 2 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3610F/G

USING PSYCHOLOGY TO MANAGE AND MEASURE EMPLOYEE WORK PERFORMANCE

A look at the management and measurement of employee work performance through a psychological lens. Topics include the emotionally-charged nature of the social context surrounding work performance; work performance as viewed by the self, versus peers and supervisors; using psychological expertise to improve the fairness and accuracy of performance feedback. **Antirequisite:** ~~Psychology 3690F if taken in 2012/13 or Psychology 4690G if taken in 2013/14.~~

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3690F/G
SPECIAL TOPICS IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY
Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3694F/G
TEAMS AND WORK GROUPS IN ORGANIZATIONS

This course examines and assesses psychological research on workgroups / teams. Particular attention is paid to issues associated with team composition, team processes, individual vs. group performance, and the organizational context in which teams operate. Methodological/statistical issues associated with workgroup/team research are given considerable emphasis.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3720F/G

THE PSYCHOLOGY OF PROSOCIAL AND ANTISOCIAL BEHAVIOUR

The course will consider the social, situational and personality factors responsible for the occurrence of antisocial behaviors such as violence and aggression, and of prosocial behaviors such as helping others in disaster or crisis situations.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810 (or Psychology 2780E or permission of the Department at Huron).

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Administrative Note: Psychology 3720F/G is also offered by Huron. The change will apply only to the offering at Main Campus.

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3723F/G

ATTITUDES AND ATTITUDE CHANGE

This course will describe research and theory in social psychology relating to attitudes. Topics to be covered include dissonance, factors associated with effective persuasion, resistance to persuasion, advertising, religious attitudes, environmental attitudes, prejudice, and propaganda.

Antirequisite(s): Psychology 3721F/G, Psychology 3740F/G, the former Psychology 3710F/G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 2 lecture hours, 1 tutorial hour.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3724F/G

THE SCIENCE OF ROMANTIC RELATIONSHIPS

This course provides an overview of the field of intimate relationships. Current empirical research is emphasized. Topics include theoretical perspectives on intimate relationships (e.g., social psychological theory, evolutionary and life histories theory), interpersonal attraction, love, sexuality, communication within relationships, and various relationship challenges (conflict, violence, power, loss, etc.).

Antirequisite(s): Psychology 3726F/G, ~~Psychology 3790G if taken in 2012/2013.~~

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 2 lecture hours, 1 tutorial hour.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3780F/G

RESEARCH IN SOCIAL PSYCHOLOGY

An introduction to the methods and techniques used in the study of human social behavior. Students will conduct studies using a variety of procedures, and will develop an independent research proposal.

Antirequisite(s): Psychology 2780E.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, and one of Psychology 2070A/B or Psychology 2720A/B, PLUS registration in third or fourth year Honours Specialization in Psychology or Honours Specialization in Developmental Cognitive Neuroscience.

Third or fourth year Psychology Majors and Psychology Special Students who earn 70% or higher in both Psychology 2801F/G (or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810) also may enrol in this course.

Extra Information: 2 lecture hours, 2 laboratory hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3790F/G
SPECIAL TOPICS IN SOCIAL PSYCHOLOGY**

Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 lecture/discussion hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3840F/G
SURVEY DESIGN AND CONSTRUCTION**

An introduction to the foundations and methods for developing questionnaires and surveys. Topics include methods and types of survey measurement, construction administration, data collection and reporting of results. Students may participate in the development of surveys with community partner agencies.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B,

Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or both the former Psychology 2800E and the former Psychology 2810, ~~or minimum grade of 70% in Psychology 2840F/G~~ (or minimum grade of 70% in both Psychology 2830A and Psychology 3830F/G at Huron), PLUS registration in third or fourth year Honours Specialization in Psychology, **Honours Specialization in Developmental Cognitive Neuroscience,** or Honours Specialization in Applied Psychology. Third or fourth year Psychology Majors and Psychology Special Students who earn 70% or higher in both Psychology 2801F/G **(or 70% or higher in one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G)** and Psychology 2811A/B **(or 70% or higher in one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B),** or 70% or higher in the former Psychology 2820E (or 60% or higher in the former Psychology 2800E and the former Psychology 2810) also may enrol in this course.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Administrative Note: *Psychology 3840F/G is also offered by Huron and King's. The change will apply only to the offering at Main Campus.*

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3860F/G QUALITATIVE RESEARCH METHODS

An overview and in-class practice of qualitative research methods including in-depth interviewing, focus groups, naturalistic observation, content analysis, and thematic analysis of textual information. The course includes an introduction to five qualitative research perspectives: grounded theory, phenomenology, narrative psychology, ethnography, and case studies. Students will conduct individual projects.

Antirequisite(s): ~~Psychology 4991G if taken in 2014/15 and Psychology 3990G if taken in 2015/16.~~ Sociology 3307F/G.

Prerequisite(s): Both Psychology 2801F/G **(or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G)** and Psychology 2811A/B **(or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B,**

Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3912F/G

PSYCHOLOGY AND THE ARTS

This course will consider a range of questions relating to art that are of interest to psychologists, organized into broad sections: art and mental illness; philosophical issues; and applied topics. Readings will be drawn from a range of sources, including empirical articles, case studies, reviews and books by eminent thinkers.

Antirequisite(s): ~~Psychology 3990G if taken in 2013-14 or 2014-15.~~

Prerequisite(s): Both Psychology 2801F/G (or one of **Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (or one of **Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B**), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3950F/G

HISTORY OF PSYCHOLOGY

A survey of the major ideas and scholars important to the development of Western psychology, examined from an historical and sociocultural perspective. Recommended for those thinking of graduate work in clinical psychology. CPA accredited programs require coursework on this topic and most will accept this course as fulfilling the criterion.

Antirequisite(s): Psychology 3893F/G (King's).

Prerequisite(s): Both Psychology 2801F/G (or one of **Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (or one of **Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former**

Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 4 lecture/discussion hours.

Course Weight: 0.50

Administrative Note: *Psychology 3950F/G is also offered by Huron. The change will apply only to the offering at Main Campus.*

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3990F/G

SPECIAL TOPICS IN PSYCHOLOGY

Selected topics of current interest in Psychology. Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (**or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (**or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B**), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 seminar hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

PSYCHOLOGY 3991F/G

SPECIAL TOPICS IN PSYCHOLOGY

Topic available in Department.

Prerequisite(s): Both Psychology 2801F/G (**or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G**) and Psychology 2811A/B (**or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B**), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810.

Extra Information: 3 lecture hours.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3996F
INDEPENDENT STUDY**

Individual reading and research at an advanced level under faculty supervision. Students are responsible for arranging independent study credit with an individual faculty member of their choice.

Antirequisite(s): Psychology 3998F/G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810; PLUS registration in third or fourth year Major or Honours Specialization Modules in Psychology or the Honours Specialization module in Neuroscience at Western Main Campus. In addition, written permission of instructor and department and an "A" average the previous year.

Course Weight: 0.50

Course Revision – Effective September 1, 2024, the following change(s) be made:

**PSYCHOLOGY 3997G
INDEPENDENT STUDY**

Individual reading and research at an advanced level under faculty supervision. Students are responsible for arranging independent study credit with an individual faculty member of their choice.

Antirequisite(s): Psychology 3999G.

Prerequisite(s): Both Psychology 2801F/G (or one of Health Sciences 2801A/B, Psychology 2840F/G, Psychology 2855F/G) and Psychology 2811A/B (or one of Biology 2244A/B, Economics 2122A/B, Economics 2222A/B, Geography 2210A/B, Health Sciences 3801A/B, MOS 2242A/B, Psychology 2830A/B, Psychology 2850A/B, Sociology 2205A/B, Statistical Sciences 2035, Statistical Sciences 2141A/B, Statistical Sciences 2143A/B, Statistical Sciences 2244A/B, Statistical Sciences 2858A/B, the former Social Work 2207A/B), or the former Psychology 2820E, or both the former Psychology 2800E and the former Psychology 2810; PLUS registration in third or fourth year Major or Honours Specialization Modules in Psychology or the Honours Specialization module in Neuroscience at Western Main Campus. In addition, written permission of instructor and department and an "A" average the previous year.

Course Weight: 0.50