

The following proposals, received on DAP between February 16-29, 2020, have been approved. For more information on the DAP process, [see the Secretariat's website](#).

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## **FACULTY OF ENGINEERING**

### **CHEMICAL AND BIOCHEMICAL ENGINEERING**

Effective **September 1, 2020**, the following course be introduced.

#### **Chemical and Biochemical Engineering 4416A/B CARBON FOOTPRINT AND MANAGEMENT**

An overview of the main sources of CO<sub>2</sub> emissions, their comparative impacts and the emerging technologies for CO<sub>2</sub> management. The course focuses on the technical details associated with CO<sub>2</sub> capture and storage and the practical challenges associated with implementation of these technologies.

Antirequisite(s): CBE 4413A/B.

Prerequisite(s): CBE 3315A/B or GPE 3315A/B, CBE 3324A/B.

Extra Information: 3.0 lecture hours, 1.0 tutorial hours.

0.5 course

### **CIVIL AND ENVIRONMENTAL ENGINEERING**

Effective **September 1, 2020**, the following courses be revised.

#### **Civil and Environmental Engineering 2220A/B INTRODUCTION TO STRUCTURAL ENGINEERING**

Extra Information: ~~3 lecture hours, 1 laboratory hour, 1 tutorial hour~~ 3 lecture hours per week, 2 tutorial hours per week, 2 - 30-minute lab sessions per term.

#### **Civil and Environmental Engineering 2221A/B STRUCTURAL THEORY & DESIGN**

Extra Information: ~~3 lecture hours, 1 laboratory hour, 1 tutorial hour~~ 3 lecture hours per week, 2 tutorial hours per week.

#### **Civil and Environmental Engineering 2224 ENGINEERING FLUID MECHANICS**

Extra Information: ~~3 lecture hours, 1 laboratory hour, 2 tutorial hours~~ 3 lecture hours per week, 2 tutorial hours per week, 3 lab hours 4 times per year.

#### **Civil and Environmental Engineering 3321A/B SOIL MECHANICS & HYDROGEOLOGIC ENGINEERING**

Extra Information: ~~2 lecture hours, 3.5 tutorial/laboratory hours~~ 2 lecture hours per week, 2 lab hours 4 times per term, 4 tutorial hours 4 times per term.

#### **Civil and Environmental Engineering 3322A/B INTRODUCTION TO GEOTECHNICAL ENGINEERING**

Extra Information: ~~3 lecture hours, 2.5 tutorial/laboratory hours~~ 3 lecture hours per week, 2 lab hours 3 times per term, 4 tutorial hours four times per term.

#### **Civil and Environmental Engineering 3324A/B SURVEYING**

The fundamental theory and procedures of plane surveying with application to engineering construction. This course runs in the summer for a period of 15 days (usually three weeks preceding the start of term). Limited enrollment. Preference will be given to students who have completed term 4 of the Civil Engineering program. (~~26 lecture hours, 52 field work/laboratory hours~~).

The fundamental theory and procedures of plane surveying with application to engineering construction. Introduction to the use of AutoCAD to produce civil engineering drawings.

Extra Information: ~~2 lecture hours, 4 laboratory hours. Students must attend the first class in order to be enrolled in the class because of the concise nature of the course, and the last date for dropping the course is at the end of classes on the fourth day.~~ 26 lecture hours, 52 lab/fieldwork hours over two weeks. This course runs in the summer for a period of 10 days (usually the two weeks preceding the start of the fall term). Limited enrollment. Preference will be given to students who have completed term 4 of the Civil Engineering program. Due to the concise nature of the course, students must attend the first class in order to be enrolled, and the last date for dropping the course is at the end of classes on the fourth day.

**Civil and Environmental Engineering 3327A/B INTERNATIONAL DEVELOPMENT FOR ENGINEERS**

Extra Information: ~~2 lecture hours, 2 tutorial hours~~ 4 lecture hours per week.

**Civil and Environmental Engineering 3348A/B PROJECT MANAGEMENT & ENGINEERING CASES**

Extra Information: ~~2 lecture hours, 2 tutorial hours~~ 2 lecture hours per week, 3 tutorial hours per week 7 times per term.

## ENGINEERING SCIENCE

Effective **September 1, 2020**, the following course be introduced.

**Engineering Science 2297A/B - INTEGRATED SYSTEM ENGINEERING AND DESIGN**

**Short title:** INTEGRATED SYSTEM ENG. & DESIGN

Introduction to classical system engineering and associated methods, tools and practices, with application experienced through team-based, interdisciplinary design projects. Case-based and interactive classroom lessons are combined with structured laboratory sessions to build knowledge and competence.

Antirequisite(s): MME 2259A/B.

Prerequisite(s): Registration in Integrated Engineering.

Extra Information: 4 lecture hours per week.

Accreditation units Engineering Science = 25%, Engineering Design = 75%.

0.5 course.

Effective **September 1, 2020**, the following courses be revised.

**Engineering Science 1022A/B/Y ENGINEERING STATICS**

Extra Information: ~~2 lecture hours/week; 1 tutorial hour/week for ten weeks each term – this is equivalent to 3 lecture hours/week and 2 tutorial hours/week over one term.~~ 2 lecture hours per week for 10 weeks each term when offered as a Y course; 12 lecture hours per week for 3 weeks when offered as a Summer Intersession course.

**Engineering Science 1050 FOUNDATIONS OF ENGINEERING PRACTICE**

Extra Information: ~~3 lecture hours, 4 laboratory/tutorial hours.~~ 3 lecture hours per week, 2 lab hours per week and 2 tutorial hours per week.

**Engineering Science 4499 INTERDISCIPLINARY ENGINEERING DESIGN PROJECT**

Extra Information: ~~4 tutorial hours.~~ 1 lecture hour per week, 3 tutorial hours per week.

## SOFTWARE ENGINEERING

Effective **September 1, 2020**, the following course be introduced.

**Software Engineering 4460A/B – MACHINE LEARNING FUNDAMENTALS AND DESIGN FOR ENGINEERS**

**Short title:** MACHINE LEARNING & DESIGN

The objective of this course is to introduce students to the fields of Machine Learning and Data Science. The students will learn various algorithms and how they are implemented to solve real world problems. Students will get hands-on experience in implementing these algorithms using various programming languages and platforms.

Antirequisite(s): Computer Science 4414A/B.

Prerequisite(s): Engineering Science 1036A/B, Applied Mathematics 1411A/B, Statistical Sciences 2141A/B or Statistical Sciences 2143A/B.

Extra Information: 3 lecture hours per week, 2 lab hours per week 10 times per term, 1 tutorial hour per week, 10 times per term.

0.5 course

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## FACULTY OF SOCIAL SCIENCE

### ANTHROPOLOGY

Effective **September 1, 2020**, the following modules be revised.

#### MAJOR IN ANTHROPOLOGY

##### Module

6.0 courses

**0.5 course** from: Anthropology 2211F/G, Anthropology 2212F/G, Anthropology 2216F/G, Anthropology 2219F/G, **Indigenous Studies 2218F/G**, ~~First Nations Studies 2218F/G~~, the former Anthropology 2217F/G, the former Anthropology 2218F/G, the former First Nations Studies 2217F/G, **the former First Nations Studies 2218F/G**.

**0.5 course** from: Anthropology 2230F/G, Anthropology 2233F/G, Anthropology 2234F/G.

**1.5 courses** from: Anthropology 2222F/G, Anthropology 2226A/B, Anthropology 2229F/G, Anthropology 2245F/G.

**1.0 course** from: Anthropology 3237A/B, Anthropology 3305F/G, Anthropology 3307A, Anthropology 3308F/G, Anthropology 3309F/G, Anthropology 3310A/B, Anthropology 3311F/G, Anthropology 3312F/G, Anthropology 3313A/B, Anthropology 3331F/G, Anthropology 3332F/G, Anthropology 3334F/G, Anthropology 3336F/G, Anthropology 3338F/G, Anthropology 3339F/G, Anthropology 3340A/B, Anthropology 3341F/G, Anthropology 3343A/B, Anthropology 3350F, Anthropology 3351G, Anthropology 3355F/G, the former Anthropology 3333F/G, the former Anthropology 3335F/G, the former Anthropology 3337F/G.

**2.5 courses** in Anthropology at the 2200 level or above.

#### MAJOR IN SOCIOCULTURAL ANTHROPOLOGY

##### Module

6.0 courses:

**1.0 course:** Anthropology 2222F/G, Anthropology 2245F/G.

**0.5 course:** Anthropology 2226A/B, Anthropology 2229F/G.

**0.5 course** from: Anthropology 2211F/G, Anthropology 2212F/G, Anthropology 2216F/G, Anthropology 2219F/G, **Indigenous Studies 2218F/G**, ~~First Nations Studies 2218F/G~~, the former Anthropology 2217F/G, the former Anthropology 2218F/G, the former First Nations Studies 2217F/G, **the former First Nations Studies 2218F/G**.

**1.0 course:** Anthropology 3350F, Anthropology 3351G.

**2.0 courses** from: Anthropology 2201F/G, Anthropology 2203F/G, Anthropology 2255E, Anthropology 2260F/G, Anthropology 2262F/G, Anthropology 2272F/G, Anthropology 2275A/B, Anthropology 2276F/G, Anthropology 2277F/G, **Anthropology 2278F/G**, Anthropology 2280F/G, Anthropology 2281F/G, Anthropology 2282F/G, Anthropology 2283F/G, Anthropology 2284F/G, Anthropology 2285F/G, Anthropology 2290F/G, Anthropology 3305F/G, Anthropology 3321, Anthropology 3322, Anthropology 3323A/B, Anthropology 3331F/G, Anthropology 3332F/G,

Anthropology 3355F/G, Anthropology 3389F/G, **Anthropology 4401F/G**, ~~Anthropology 4400E~~, Anthropology 4470A/B, the former Anthropology 2223F/G, the former Anthropology 2224F/G, the former Anthropology 2269F/G, the former Anthropology 2289F/G, the former Anthropology 3303, the former Anthropology 3333F/G, the former Anthropology 3369F/G, **the former Anthropology 4400E**.

Students may substitute a maximum of 0.5 course, not previously taken, from:  
Anthropology 2211F/G, Anthropology 2212F/G, Anthropology 2216F/G, Anthropology 2219F/G, **Indigenous Studies 2218F/G**, ~~First Nations Studies 2218F/G~~, the former Anthropology 2217F/G, the former Anthropology 2218F/G, the former First Nations Studies 2217F/G **the former First Nations Studies 2218F/G**.

**1.0 course** from any subfield in Anthropology at the 2200 level or above.

~~Anthropology 4400E~~ **Anthropology 4401F/G** is strongly recommended for fourth-year students planning graduate work in anthropology.

## **SPECIALIZATION IN ANTHROPOLOGY**

### **Module**

9.0 courses:

**1.0 course** from: Anthropology 2211F/G, Anthropology 2212F/G, Anthropology 2216F/G, Anthropology 2219F/G, Anthropology 2230F/G, Anthropology 2233F/G, Anthropology 2234F/G, Indigenous Studies 2218F/G, the former Anthropology 2217F/G, the former Anthropology 2218F/G, the former First Nations Studies 2217F/G, the former First Nations Studies 2218F/G, of which at least 0.5 must be from Anthropology 2211F/G through Anthropology 2219F/G, ~~First Nations Studies 2218F/G~~, the former Anthropology 2217F/G, or the former Anthropology 2218F/G, the former First Nations Studies 2217F/G, **the former First Nations Studies 2218F/G**.

**2.5 courses**: Anthropology 2222F/G, Anthropology 2245F/G, Anthropology 3350F, Anthropology 3351G, Anthropology 4401F/G, the former Anthropology 4400E.

**1.0 course** from: Anthropology 2226A/B and Anthropology 2229F/G OR Linguistics 2247A/B and Linguistics 2248A/B (OR the former Anthropology 2247A/B and the former Anthropology 2248A/B).

**4.5 additional courses** in Anthropology numbered 2200 or above. Students may substitute a maximum of 1.0 course, not previously taken, from: Anthropology 2211F/G, Anthropology 2212F/G, Anthropology 2216F/G, Anthropology 2219F/G, Anthropology 2230F/G, Anthropology 2233F/G, Anthropology 2234F/G, Indigenous Studies 2218F/G, the former Anthropology 2217F/G, the former Anthropology 2218F/G, the former First Nations Studies 2217F/G, the former First Nations Studies 2218F/G.

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## **BRESCIA UNIVERSITY COLLEGE**

### **HISTORY**

Effective **September 1, 2020**, the following courses be introduced.

#### **History 1202F/G CONFLICTS AND CONTROVERSIES IN CANADIAN HISTORY**

**Short title:** CDN CONFLICTS & CONTROVERSIES

This course examines controversial issues in Canadian History from European colonization to the present. The focus is on debates over the meaning of events, people, and policies. Topics include Indigenous-settler conflicts, expulsion of the Acadians, John A. Macdonald, residential schools, religious and language rights, and wartime treatment of minorities.

Antirequisite(s): History 1201E, History 2201E.

Extra Information: 3 hours, 0.5 course.

**History 2226F/G EDITORIAL CARTOONS IN CANADIAN HISTORY AND SOCIETY**

**Short title:** EDITORIAL CARTOONS IN CDN HIST

This course will provide critical perspectives on the creation and impact of editorial cartoons from colonial times to the present. Analysis of the political, social, and economic context for powerful visual critiques in the popular press. Themes include power and authority, social and moral regulation, and humour as a weapon.

Antirequisite(s): History 2126A/B.

Extra Information: 2 hours, 0.5 course.

**History 2268F/G NATURE AND CULTURE IN CANADIAN HISTORY**

**Short title:** NATURE & CULTURE IN CDN HIST

This course highlights the environment as an historical force. It examines changing relationships between people and other aspects of the natural world. Topics include Indigenous resource use, impacts of European colonization, attitudes toward nature, social conflicts over government policies affecting fish, forest, and wildlife, and the rise of environmental advocacy.

Antirequisite(s): History 2168A/B, History 2123, History 2211E.

Extra Information: 2 hours, 0.5 course.

**History 2270F/G PARKS, PEOPLE, AND POWER IN PERSPECTIVE**

**Short title:** PARKS, PEOPLE & POWER

This course examines conflicts over parks and other protected areas in Canada and the United States. It emphasizes changing ideas, shifting land use pressures, and power relations among diverse interests. Controversies over park establishment, management policies, and their environmental impacts will be discussed. Course requirements may include a field trip.

Antirequisite(s): History 2170A/B.

Extra Information: 2 hours, 0.5 course.

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**HURON UNIVERSITY COLLEGE**

**POLITICAL SCIENCE**

*Effective September 1, 2020, the following course be introduced.*

**Political Science 3489F/G RWANDA'S RECOVERY: EXPERIENTIAL LEARNING IN PEACEBUILDING AND RECONCILIATION**

**Short title:** RWANDA'S RECOVERY

An experiential learning course about Rwanda that provides students with a comprehensive overview of themes in contemporary debates about peacebuilding and reconciliation. The course combines classroom preparation in Rwanda's history, politics, and culture, with field-study travel that brings the scholarly issues to life.

Antirequisite(s): Political Science 3394F, Political Science 3395G, if taken in 2017-2019.

Pre-or Corequisite(s): Political Science 2245E or Political Science 2231E and enrolment in the Honours Specialization or Major in Political Science, or permission of the Department.

Extra Information: 2 seminar hours, 0.5 course.

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**DAP UPDATE: MINOR CHANGES**

**FACULTY OF ARTS AND HUMANITIES**

*Effective September 1, 2020, the following course be revised.*

**Italian 3300 ADVANCED ITALIAN**

Extra Information: 4-3 hours.

**DON WRIGHT FACULTY OF MUSIC**

*Effective **September 1, 2020**, the following course be revised.*

**Music 3780A/B DIRECTED STUDY IN MUSIC HISTORY OR POPULAR MUSIC**

Independent research project for ~~senior students in the Bachelor of Music with Honours (Music History) program.~~ Topic and methodology to be determined on an individual basis through consultation between the student and the supervising professor.