



MEMORANDUM

To: Executive Committee of Faculty Council (March 26, 2024)
Faculty Council (April 15, 2024)

From: Professor Evan Bentz
Chair, Undergraduate Curriculum Committee

Date: March 12, 2024

Re: Major Curriculum Changes for the 2024-2025 Academic Year

REPORT CLASSIFICATION

This is a major policy matter that will be considered by the Executive Committee for endorsement and forwarding to Faculty Council for vote as a regular motion (requiring a simple majority of members present and voting to carry).

BACKGROUND

The Undergraduate Curriculum Committee is tasked with managing the curriculum change process for the Faculty.

PROPOSED

This report summarizes course changes proposed for the 2024-2025 academic year.

CONSULTATION PROCESS

These changes have been reviewed and approved by the Undergraduate Curriculum Committee, which is comprised of teaching staff representatives from the Faculty’s departments and institutes; undergraduate student representatives; the Vice-Dean, Undergraduate; the Vice-Dean, First Year; the Director, First Year Curriculum; the Associate Dean, Cross-Disciplinary Programs; the Assistant Dean and Director, Diversity, Inclusion and Professionalism; and the Faculty Registrar. The Committee meets regularly to review and approve proposed changes to the undergraduate curriculum. The impact of these changes on students in the relevant programs has been considered.

RECOMMENDATION FOR COUNCIL

THAT the proposed curriculum changes for the 2024-2025 academic year, as described in Report 3764, be approved.

PROPOSED CURRICULUM CHANGES

1. CHEMICAL ENGINEERING & APPLIED CHEMISTRY

1.1. Update AU distribution to 100% NS for the following technical elective courses:

CHM415: Atmospheric Chemistry

CHM416: Separation Science

CHM456: Organic Materials Chemistry

CHM457: Introduction to Polymer Chemistry

FOR310: Bioenergy from Sustainable Forest Management

HMB201: Introduction to Fundamental Genetics and its Applications

IMM250: The Immune System and Infectious Disease

MGY377: Microbiology I: Bacteria

PCL201: Introduction to Pharmacology and Pharmacokinetic Principles

PCL302: Pharmacodynamic Principles

PSL300: Human Physiology I

Note: These courses are listed as technical electives for chemical engineering students in the calendar. They are offered by the Faculty of Arts & Science (FAS)

- *In the Faculty's AU database, some of these courses have no AU breakdown, some are 100% NS, and some have different amounts of ES, NS and CS. Given that FASE has no control over the content of these courses, it is recommended that we set all 11 courses to 100% NS.*

1.2 Update course credit value for **CHE403: Professional Practice**

CURRENT course weight: 0.00

PROPOSED course weight: 0.15

- *This will bring CHE403 in line with the course weight for CHE191. Both are seminar courses, and both are CR/NCR. Because the weight is zero for CHE403, many students do not take this course seriously. Having the course zero weight is sending the wrong message to our students, given that the course covers the legal and ethical responsibility an engineer owes to an employer, a client and the public with particular emphasis on environmental issues.*

1.3 Remove **CHE470: Special Topics in Chemical Engineering** from calendar

- *This course has not been offered for a very long time and never had a specific syllabus. It was created many years ago to give instructors the opportunity to deliver material not found in other electives.*

1.4 Remove **CHE408: Data Analytics for Prediction, Control, and Optimization of Chemical Processes** from calendar

- *This course has never been offered because of significant overlap with CHE507: Data-based Modelling for Prediction and Control.*