

## ACADEMIC COUNCIL REPORT

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### ACTION REQUESTED:

Recommendation   
Decision   
Discussion/Direction   
Information

**DATE: 25 January 2022**

**FROM: Undergraduate Studies Committee**

**SUBJECT: Minor Program Adjustment – Bachelor of Engineering in Mechatronics Engineering**

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### COMMITTEE MANDATE:

In accordance with Section 1. b) of the Undergraduate Studies Committee (USC) Terms of Reference, USC has the responsibility “to approve minor program adjustments and report them to Academic Council for information.”

### BACKGROUND/CONTEXT & RATIONALE:

The Faculty is proposing to replace some ELEE designated courses with purpose-built MECE electronics courses. Mechatronics students need to focus on application and design of electronic circuits for mechatronic systems. The update has been identified as part of the Continual Improvement Process to meet the Knowledge Base and Design Graduate Attributes in the area of circuit design in the program. The Design attribute is significantly improved in the three proposed courses in second year, which is expected to improve the Design attributes in third and fourth year. The topics will be presented in the three new courses, instead of the current four courses, therefore, students are able to have another elective course in an advanced mechatronics topic to increase their Knowledge Base. A liberal studies elective will be moved to accommodate the engineering elective in the fourth year.

### RESOURCES REQUIRED:

The net number of sections being offered should be the same or one less, so there are no financial implications. There are no additional resources required to make these changes.

### TRANSITION PLAN:

These changes will apply to all students who started the Mechatronics Engineering program in Fall 2021, or later. Students who started earlier than Fall 2021 and already passed at least one of the following courses: ELEE 2200U, ELEE 2210U, ELEE 2250U, ELEE 3230U should follow the current program map.

Fall 2021 (starting Year 2 in Fall 2022), Fall 2022 (starting Year 1), and future cohorts - Follow new program map.

Fall 2020 (starting Year 3) and earlier cohorts - Follow existing program map.

Students who started earlier than Fall 2021 but have not passed one of the courses should speak with an Academic Advisor.

**CONSULTATION AND APPROVAL:**

Undergraduate Studies Committee: 21 December 2022

Faculty Council: 8 November 2021

Engineering Curriculum Committee: 25 October 2021

**NEXT STEPS:**

This change will be included in the 2022-2023 Academic Calendar.

**SUPPORTING REFERENCE MATERIALS:**

- [Minor Program Adjustment Proposal](#)
- New Courses: [METE 2010U](#), [METE 2020U](#), [METE 2030U](#)
- Related Course Changes: [MECE 3350U](#), [METE 3100U](#), [METE 3200U](#)