

March 2024

**Subject: Important Notes and Curriculum Changes in the 2024-2025 UG Calendar**

Dear Student,

Each academic year, all students enrolled in our **Mechanical Engineering** program are sent a letter advising them of curriculum changes that have occurred since their entry into the program. As such, the present letter is to advise you of changes to your program that will appear in the 2024 – 2025 Undergraduate Calendar.

It is important to read this entire letter, as these changes may affect your selection of courses or potentially your graduation. Students must meet the requirements of their program according to the calendar of their graduating year.

This letter, as well as past ones, can be found on the following website: [Course sequences for Mechanical Engineering \(BEng\) \(concordia.ca\)](https://www.concordia.ca/encs/undergraduate/course-sequences-for-mechanical-engineering-beng)

Should you have any questions regarding this letter and any of the curriculum changes therein, please do not hesitate to contact your Undergraduate Program Assistant, Ms. Sabrina Poirier:

- By email at [mie-upa@encs.concordia.ca](mailto:mie-upa@encs.concordia.ca);
- By phone at 514-848-2424 extension 3133; or
- In-person in room EV 4.144.

Please be reminded that you can always consult your program requirements and course descriptions referring to the [undergraduate calendar, section 71.40.1](#).

**Please read the following pages carefully.**

VERY IMPORTANT:

**Starting Summer 2023, the Summer terms will be 6 weeks long instead of the previous 6 ½ weeks. The Fall and Winter academic terms will be 12 weeks long instead of the previous 13 weeks. It is important to check the undergraduate academic dates:**

<https://www.concordia.ca/students/undergraduate/undergraduate-academic-dates.html>

1. Students must have completed all 200-level courses required for their program before they can register for any 400-level course.
2. All 200-level courses within the program, taken after September 1, 2012, which are prerequisites for other courses, must be completed with a C- grade or better. A 200-level course in which a student obtained a D+ grade or lower must be repeated before attempting any course for which this 200-level course is a prerequisite.
3. Any courses that you are required to repeat due to conditional standing or readmission conditions must be completed with a grade of C- or better prior to graduation. This requirement will **NOT** be waived.
4. Students are required to graduate having met the substantial equivalent of the curriculum in force in the winter term prior to their degree conferral.
5. Students may now submit a request to write a supplemental exam, pending on meeting the requirements highlighted in section 71.10.3 of the 2024-2025 Calendar. Meeting the conditions does not guarantee the approval of the request.
6. In order to graduate, students must:
  - i. Satisfy all their program requirements;
  - ii. Be in acceptable standing in their last annual assessment; and
  - iii. Have a minimum final graduation GPA of 2.00.

The academic standings of potential graduates who have attempted less than 12 credits since their last assessment are determined on the basis that these credits constitute an extension of the last assessment period.

7. Graduation does NOT occur automatically and you must apply for graduation. The application form can be found at: <https://www.concordia.ca/students/your-sis/apply-to-graduate.html>.

The deadlines to apply for graduation are:

- January 15<sup>th</sup> for Spring Convocation; or
- July 15<sup>th</sup> for Fall Convocation.

8. MATH 202 is no longer required for students in the Extended Credit (ECP) or Mature Entry (MEP) programs.

## **Changes to the Mechanical Engineering Program**

### **1. Changes to the Engineering Core (27cr)**

No changes have been made to the Engineering Core.

### **2. Changes to the Mechanical Engineering Core (87cr)**

There are changes to the Mechanical Engineering Core.

**The changes listed below were put in place during the 2023-2024 academic year and still impact students currently enrolled in the undergraduate Mechanical Engineering (BEng) program:**

- 1) The Mechanical Engineering Core amounts to 87 credits instead of the previous 81.5 credits because of the following reasons:
  - MECH 490 Capstone Aerospace Engineering Design Project is now a 6-credit course instead of the previous 4 credits;
  - MECH 373 Instrumentation and Measurements (3.5cr) (previously referred to as MECH 411) is now added to the Mechanical Engineering Core.

***Please read the following transitional measure carefully and follow what is applied to your specific situation:***

- Students admitted in Fall 2022 or after must take MECH 373 as part of their core, and therefore must complete 87 credits from the Mechanical Engineering Core.
  - Students admitted prior to Fall 2022 do not have to take MECH373 as part of their core, and therefore must complete 83.5 credits from the Mechanical Engineering Core and must complete an additional 3.5 credits of technical electives.
- 2) MECH 368 Electronics for Mechanical Engineers (3.5cr) now has the following prerequisites, which must be completed previously: PHYS 205 and MIAE 215.

**The changes below begin at the start of the 2024-2025 academic year:**

- 3) MIAE312 is no longer a prerequisite to MECH390. MECH390 now has the following Prerequisite/Corequisite: the following courses must be completed previously: ENCS 282; MECH 311 or MIAE 311; MECH 343; MIAE 380. The following course must be completed previously or concurrently: MECH 344.
- 4) MIAE312 is now added as a prerequisite to MECH490. MECH490 now has the following Prerequisite/Corequisite: The following courses must be completed previously: ENGR 301; MECH 344, MECH 390, MIAE 312. Students must complete 75 credits in the program prior to enrolling.

### **3. Changes to the Mechanical Engineering Electives (6cr)**

There are changes to the Mechanical Engineering Technical Electives.

**The changes listed below were put in place during the 2023-2024 academic year and still impact students currently enrolled in the B. Eng. Mechanical program:**

- 1) Students must now take 6 credits Technical Electives from any of the Mechanical Engineering Groups instead of the previous 11.5 credits. This is due to an increase in the Mechanical Engineering Core credits (87) as described above. As a transitional measure, students who were admitted prior to Fall 2022 and who do not take MECH 373 must complete 9.5 credits of technical electives.
- 2) Technical Elective Courses are now listed in groups to facilitate the selection of courses in a particular area of the field.
  - Aerospace Group
  - Design and Manufacturing Group
  - Systems and Mechatronics Group
  - Thermo-Fluids and Propulsion Group
  - Vehicle Systems Group
  - Stress Analysis Group

**The changes below begin at the start of the 2024-2025 academic year:**

- 3) MECH 375 is now a co-requisite to MECH 447. MECH447 now has the following prerequisite/corequisite: The following course must be completed previously: MECH 343. The following courses must be completed previously or concurrently: MECH 375
- 4) AERO 431 Principles of Aeroelasticity is now a 3.5 credits course instead of the previous 3 credits. The course consists of a lecture and a laboratory component.
- 5) AERO 431 Principles of Aeroelasticity (3.5cr) now has the following prerequisites which must be completed previously: ENGR 361 and MECH 375.