March 27 2024

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

Dear Student,

Each academic year, all students enrolled in our **Industrial Engineering** program are sent a letteradvising 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 Industrial Engineering (BEng) (concordia.ca)

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;
- 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 by referring to the following website:

https://www.concordia.ca/academics/undergraduate/calendar/current/section-71-gina-cody-school-of-engineering-and-computer-science/section-71-40-department-of-mechanical-industrial-and-aerospace-engineering/section-71-40-2-course-requirements-beng-in-industrial-engineering-.html

Please read the following pages carefully.

VERY IMPORTANT:

1. **Starting Summer 2023, the Summer terms will be 6 weeks long instead of the previous 7 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
2. Students must have completed all 200-level courses required for their program before they can register for ***any*** 400-level course.
3. 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.
4. 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 tograduation. This requirement will NOT be waived.
5. Students are required to graduate having met the substantial equivalent of thecurriculum in force in the winter term prior to their degree conferral.
6. Students may now submit a request to write a supplemental exam, pending on meeting the requirements highlighted in section 71.10.3 of the 2021-2022 Calendar. Meeting the conditions does not guarantee the approval of the request.
7. 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.
8. 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 15th for Spring Convocation; or
   - July 15th for Fall Convocation.
9. MATH 202 is no longer required for students in the Extended Credit (ECP) or Mature Entry (MEP) programs.

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

1. **Changes to the Engineering Core**

    - The Basic and Natural Science requirements are removed since the Canadian Engineering Accreditation Board is now allowing more Accreditation Units to be claimed for Natural Science content for CEGEP studies, making this component unnecessary to meet the CEAB criteria for Natural Science curriculum content.

2. **Changes to the Industrial Engineering Core**

    - The credit value of the Industrial Engineering capstone course (INDU 490) is increased from 4 to 6.
    - Considering the removal of Basic and Natural Science requirements and also the increase in the credit of INDU 490, the core requirements of INDU program changed to 81 credits instead of the previous 82 credits.
    - Considering that the university has switched from 13-week (or 6 ½ weeks in summer) terms to 12-week (6 week) terms since summer 2023, the course descriptions of INDU 423, ENGR 311, ENGR 245, and MIAE 221 changed to adopt accordingly.

3. **Changes to the Industrial Engineering Electives**

    - The requirement of Industrial Engineering Technical Electives is increased to 12 credits.
    - INDU 424 (Introduction to Enterprise Resource Planning) is a new Industrial Engineering Technical Elective. This course was previously offered as a slot course (INDU 498).
    - With more than enough INDU electives available to satisfy the elective requirements of 12 credits, the number of courses available from outside of Industrial Engineering is limited. Please check the Undergraduate Calendar, section 71.40.2 for the updated list of available courses.

Transition Measures for Industrial Engineering Students who have entered the program prior to May 2023

New Condition since 2023-24 Calendar	**Students who have completed a course from the Basic and Natural Science Courses: Industrial Engineering list prior to May 2023 (See Table 1)**	**Students who have completed at least two natural science courses from Table 2 during their CEGEP studies**	**Students who did not complete two natural science courses from Table 2 during their CEGEP studies**	**ECP and MEP Students who have not completed courses from Basic and Natural Science Courses: Industrial Engineering list prior to May 2023 (See Table 1)**
Industrial Engineering Electives 12 credits	will receive 3 credits towards 12 credits Industrial Engineering Elective requirements	will complete all 12 credits Industrial Engineering Electives from the list given in 2024-25 calendar.	are required to complete 3 credits natural science course from the Natural Science Elective List given in Section 71.20.2 Extended Credit Program. These courses will count towards student's 12 credits Industrial Engineering Elective requirements	must take one course from Natural Science Elective List given in Section 71.20.2 Extended Credit Program. These courses will count toward student's 12 credits Industrial Engineering Elective requirements
ECP and MEP students are now (As of May 2023) required to take additional six credits Natural Science courses from the list given in Section 71.20.2 Extended Credit Program.	Not applicable Natural Science courses taken from Table 1 or Section 71.20.2 Extended Credit Program in Concordia will count towards student's 12 credits Industrial Engineering Elective requirements.			

Table 1: Basic and Natural Science Courses: Industrial Engineering

BIOL 206 Elementary Genetics (3.00)
BIOL 261 Molecular and General Genetics (3.00)
CHEM 217 Introductory Analytical Chemistry I (3.00)
CHEM 221 Introductory Organic Chemistry I (3.00)
CIVI 231 Geology for Civil Engineers (3.00)
GEOL 206 Earthquakes, Volcanoes, and Plate Tectonics (3.00)
GEOL 208 The Earth, Moon and the Planets (3.00)
PHYS 252 Optics (3.00)
PHYS 260 Introductory Biophysics (3.00)
PHYS 273 Energy and Environment (3.00)
PHYS 284 Introduction to Astronomy (3.00)
PHYS 385 Astrophysics (3.00)

Table 2: Natural Science Courses from CEGEP

CEGEP	**Concordia**	**Credits**
Biology 301, 101-NYA	BIOL 202 General Biology I	3
202-201 or 202-NYB	CHEM 206 Chemistry of Solutions	3
203-301 or 203-302 or 203-NYC	PHYS 206 Waves, Optics and Modern Physics	3