

September 14, 2020

**Subject: Important Notes and Curriculum Changes in the 2019-2020 UG Calendar**

Each academic year, all students enrolled in our Building 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 2019- 2020 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:

<http://www.concordia.ca/ginacody/building-civil-environmental-eng/programs/building-eng/bachelor/course-sequences.html>

Should you have any questions regarding this letter and any of the curriculum changes therein, please do not hesitate to contact your Undergraduate Program Assistants, Ms. Deborah Walker or Ms. Elnaz Aghdami (CO-OP students):

- By email at [bce-pa@encs.concordia.ca](mailto:bce-pa@encs.concordia.ca);
- By phone at 514-848-2424 extension 7785 or 7800; •In-person in room EV 6.144.

Please be reminded that you can always consult your program requirements and course descriptions by referring to the following website:

<http://www.concordia.ca/academics/undergraduate/calendar/current/sec71.html>

Please read the following pages carefully.

VERY IMPORTANT:

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 2019-2020 Calendar. Meeting the conditions does not guarantee the approval of the request.
6. In order to graduate, students must:
  - a. Satisfy all their program requirements
  - b. Be in acceptable standing in their last annual assessment; and
  - c. 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.

Graduation does NOT occur automatically and you must apply for graduation. The application form can be found at: <http://registrar.concordia.ca/convo/gradapp.html>.

The deadlines to apply for graduation are:

- January 15th for Spring Convocation; or
- July 15th for Fall Convocation.

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

### 1. Changes in the Engineering Core

There are no changes in the Engineering core.

### 2. Changes to Building Engineering Core

There are changes to the Building Engineering core:

- a) Building Engineering Core credits increased from 74 to 74.5.
- b) BLDG 366 (Acoustics and Lighting) has been moved from the Building Engineering Core and placed into the elective list of Option A: Building Energy and Environment. **BLDG 366 is required for students graduating up to and including May 2021 and** will count as an elective on both options (A and B) for such students. After May 2021, BLDG will count only as elective of option A.
- c) BLDG 490A and BLDG 490B have been moved from the compulsory elective core and placed as BLDG 490 (Capstone Building Engineering Design Project) in the Building Engineering Core.
- d) CIVI 432 (Soil Mechanics) has been replaced by BLDG 432 (Geology and Soil Mechanics) in the Building Engineering Core. **CIVI 432 is required for students graduating up to and including November 2021. Students who have taken CIVI 432 are not allowed to take BLDG 432.**
- e) ENGR 490 is added as an alternative to BLDG 490.
- f) BCEE 344 (Structural Design I) is now BCEE 344 (Structural Design of Steel and Wood Elements).
- g) BCEE 345 (Structural Design II) is now BCEE 345 (Structural Design of Reinforced Concrete Elements).
- h) CIVI 321 (Engineering Materials) is removed from the prerequisite of BLDG 463 (Building Envelope Design).

### 3. Changes to Building Engineering Electives

There are changes to the Building Engineering Elective courses:

- a) Building Option Course Requirements dropped from 16 to 15.5 credits.
- b) BLDG 366 (Acoustics and Lighting), BLDG 479 (Commission of HVAC Systems in Buildings), BLDG 483 (Integrated Solar Systems: Design and Operation), BLDG 484 (Diagnostics and Rehabilitation of Building Envelope) are added to Option A (Building Energy and Environment).
- c) BCEE 455 (Introduction to Structural Dynamics), BLDG 480 (Building Information Modelling in Construction) and BLDG 481 (Fundamentals of Facility Management) are added to Option B (Building Structures and Construction).
- d) BLDG 478 (Project Management in Construction) is now BCEE 478 (Project Management in Construction).
- e) BLDG 492 (Construction Processes) is now BCEE 492 (Construction Processes).

#### 4. Changes to Civil Engineering Core

There are changes to the Civil Engineering core:

- a) ENGR 490 is added as an alternative to CIVI 490.
- b) BCEE 344 (Structural Design I) is now BCEE 344 (Structural Design of Steel and Wood Elements).
- c) BCEE 345 (Structural Design II) is now BCEE 345 (Structural Design of Reinforced Concrete Elements).

#### 5. Changes to Civil Engineering Electives

There are changes to the Civil Engineering Elective courses:

- a) BLDG 478 (Project Management for Construction) is now BCEE 478 (Project Management for Construction).
- b) BLDG 491 (Labour and Industrial Relations in Construction) is now BCEE 491 (Labour and Industrial Relations in Construction).
- c) BLDG 492 (Construction Processes) is now BCEE 492 (Construction Processes).
- d) BLDG 493 (Legal Issues in Construction) is now BCEE 493 (Legal Issues in Construction).
- e) BCEE 342 (Structural Analysis I) is removed from the prerequisite of CIVI 453 (Design of Reinforced Concrete Structures); and CIVI 390 (Civil Engineering Design Project) or BLDG 390 (Building Engineering Design Project) are added as prerequisites of CIVI 453. Students who have taken BCEE 342 before Fall 2020 can register into CIVI 453 before May 2021 without have completed CIVI 390 or BLDG 390.
- f) BCEE 342 (Structural Analysis I) is removed from the prerequisite of CIVI 454 (Design of Steel Structures); and CIVI 390 (Civil Engineering Design Project) or BLDG 390 (Building Engineering Design Project) are added as prerequisites of CIVI 454 (Design of Steel Structures). Students who have taken BCEE 342 before Fall 2020 can register into CIVI 454 before May 2021 without have completed CIVI 390 or BLDG 390.
- g) CIVI 372 (Transportation Engineering) is removed from the prerequisite of CIVI 471 (Highway and Pavement Design); and CIVI 321 (Materials Engineering) is added as the prerequisite of CIVI 471 (Highway and Pavement Design). Students who have taken CIVI 372 before Fall 2020 can register into CIVI 471 before May 2021 without have completed CIVI 321.