

May 1, 2016

**Subject: Important Notes and Curriculum Changes in the 2016-2017 Calendar**

Dear Student,

Each May, all students enrolled in the Building Engineering program are mailed a letter advising them of curriculum changes that have occurred since their entry into the program. This letter, including past ones, can also be viewed at the following website:

<http://www.encs.concordia.ca/current-students/undergraduate-program-requirements/course-sequences/building-engineering/>.

Students must meet the requirements of their program in the calendar for the year in which they graduate. This letter is to advise you of changes to your program that will appear in the 2016-2017 Calendar. These changes may affect your selection of courses. Should you have any questions regarding this issue, please do not hesitate to contact Student Academic Services at (514) 848-2424, extension 3055.

You can view the program requirements and course descriptions at the following website:

[http://registrar.concordia.ca/calendar/pdf/calendar\\_pdf.html](http://registrar.concordia.ca/calendar/pdf/calendar_pdf.html)

**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- or higher. A 200-level course in which a student has obtained a D+ or lower must be repeated before attempting a course for which it is a prerequisite.**
3. **Any courses that you are required to repeat (due to conditional standing or readmission) must be completed with a grade of C- or higher 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 degree conferral.**
5. **To graduate, students must (i) satisfy all 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.**
6. **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: Spring Convocation January 15<sup>th</sup>, and Fall Convocation July 15<sup>th</sup>**

*Prepared by: Office of the Dean, Faculty of Engineering and Computer Science May 2016.*

1. **Changes to the Engineering Core**

There are no changes to the Engineering core.

2. **Changes to Building Engineering Core**

There are changes to the Building Engineering core.

- a) Building Engineering Core credits has been reduced from 81.00 credits to 74.00 credits.
- b) BCEE 343 (Structural Analysis II) has been removed from the Building Engineering Core and placed in the elective list of Option B- Building Structures and Construction. **BCEE 343 is required for students graduating up to and including November 2016**
- c) Building 490 (Capstone Engineering Design Project) has been removed from the Building Engineering Core and placed in the Option course requirements.

3. **Changes to Building Engineering Electives**

There are changes to the Building Engineering Elective courses

BCEE 452, BCEE 455, BLDG 491 and BLDG 493 has been removed from the Building Electives courses. As a transitional measure, students who have completed these courses prior to September 2016 may use it to reduce the total number of technical electives. This transitional measure may be rescinded after June 2018

Building Engineering elective courses, now has two Option Course requirements

**Course Requirements**

Students must complete a minimum of 16 credits from one of the following options: A or B. Option A is designed for students interested in careers in building energy efficiency, HVAC systems and indoor environment. Option B is tailored for students wishing to pursue careers in building design, building structures, and construction engineering and management.

1. **Option A — Building Energy and Environment**

Students must complete the following compulsory course from the Option Core and a minimum of 12 credits from the Option Electives.

	Option A – Core	<i>Credits</i>
BLDG 490A	Capstone Building Engineering Design Project	4.00

	Option A – Electives	<i>Credits</i>
BLDG 465	Fire and Smoke Control in Buildings	3.00
BLDG 472	Building Energy Conservation Technologies	3.00
BLDG 473	Building Acoustics	3.00

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BLDG 474	Building Illumination and Daylighting	3.00
BLDG 475	Indoor Air Quality	3.00
BLDG 477	Control Systems in Buildings	3.00
BLDG 498	Topics in Building Engineering	3.00
ENGR 411	Special Technical Report	1.00
ENGR 412	Honours Research Project	3.00

Note: Students from Option A may choose one course from Option B electives.

## 2. Option B — Building Structures and Construction

Students must complete the following compulsory course from the Option Core and a minimum of 12 credits from the Option Electives.

Option B – Core		<i>Credits</i>
BLDG 490B	Capstone Building Engineering Design Project	4.00

Option B – Electives		<i>Credits</i>
BCEE 343	Structural Analysis II	3.00
BLDG 462	Modern Building Materials	3.00
BLDG 478	Project Management in Construction	3.00
BLDG 492	Construction Processes	3.00
BLDG 498	Topics in Building Engineering	3.00
CIVI 435	Foundation Design	3.00
CIVI 453	Design of Reinforced Concrete Structures	3.50
CIVI 454	Design of Steel Structures	3.50
ENGR 411	Special Technical Report	1.00
ENGR 412	Honours Research Project	3.00

Note: Students from Option B may choose one course from Option A electives.

As a Transitional measure, students who graduate by November 2017, may follow the old Elective Courses or one of the two new options. Students who graduate after November 2017 must follow one of the new options.