

July 12, 2019

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

Dear Student,

Each academic year, all students enrolled in our **Electrical 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/electrical-computer-eng/programs/electrical-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 Assistant, Ms. Maria Fasciano:

- By email at [mariaf@encs.concordia.ca](mailto:mariaf@encs.concordia.ca);
- By phone at 514-848-2424 extension 3102; or
- In-person in room EV 5.144.

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:
  - 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: <http://registrar.concordia.ca/convo/gradapp.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 have been made to the Electrical Engineering Program.**

**Industry Work term:**

Students in the Electrical Engineering program are required to complete at least one industry work term **approved in advance** by the undergraduate program director and administered by either the CIADI (71.10.9) or Co-Op (71.10.8) offices. Only those work terms undertaken after successfully completing 75 credits in the Electrical Engineering program and passing ELEC 390 would satisfy this requirement. It should be noted that ultimately it is the responsibility of the student to find an approved work term.

Students admitted to the Electrical Engineering program before Fall 2019 do not have to complete any industry work term.

**1. Changes to the Engineering Core**

- No changes have been made to the Engineering core.

**2. Electrical Engineering Core**

- No changes have been made to the Electrical Engineering Core in the 2019-2020 Calendar
- The following changes will appear in the 2020-2021 Calendar:
- ELEC 365 (3.00 credits) Complex Variables and Partial Differential Equations will be removed from the Electrical Engineering Core.
- COEN 352 Data Structures and Algorithms will be added to the Electrical Engineering Core.
- Students graduating in Fall convocation of 2024 or earlier may graduate with ELEC365 or COEN352 as part of the core. If a student takes both courses, one of the courses will be counted as a core course and the other as an elective course.
- Students graduating in Spring convocation of 2025 or later must take COEN352 as a core course and ELEC365 will **not** be counted as elective course.

### 3. **Electrical Engineering Options**

- I. **Electronics/VLSI Option:**

Electronics/VLSI Option Core:

- No changes have been made to the Electronics/VLSI option core.

Electronics/VLSI Option Electives:

- No changes have been made to the Electronics/VLSI Option electives.

- II. **Telecommunications Option:**

Telecommunications Option Core:

- No changes have been made to the Telecommunications Option Core.

Telecommunications Option Electives:

- No changes have been made to the Telecommunications Option electives.

- III. **Power and Renewable Energy Option:**

Power and Renewable Energy Option Core:

- No changes have been made to the Power and Renewable Energy Option Core.

Power and Renewable Energy Option Electives:

- No changes have been made to the Power and Renewable Energy Option Electives.

- IV. **Avionics and Control Option:**

Avionics and Control Option Core:

- No changes have been made to the Avionics and Control option core.

Avionics and Control Option Electives:

- No changes have been made to the Avionics and Control Electives.
- **V. General Stream Option:**
  - No changes have been made to the general stream.
  - No changes have been made to the General Stream option core for 2019-2020.
  - However, for 2020-2021, ELEC 365 will be deleted from the Electrical Engineering core and COEN 352 will be added to the Electrical Engineering core.
  - In 2020-2021, the option core courses for the General Stream are ELEC 463 and COEN 313.
  - In 2020/2021, the General Stream elective credits increase from 17 to 20.

As a transitional measure, students may still graduate with no option and not from the General Stream, provided that they graduate no later than November 2019. After November 2019, this transitional measure will be rescinded.

#### **4. Electrical Engineering Technical Electives**

- Changes have been made to the Electrical Engineering technical electives courses in group G. Biological and Biomedical Engineering
  - **ELEC 445** Biological Signal Processing – 3.00 credits