

May 1, 2007

STUDENT NAME  
ADDRESS

**Subject: Curriculum Changes in the 2007-2008 Calendar**

Dear Student,

Each May, all students enrolled in the **Electrical Engineering** program are mailed a letter advising them of curriculum changes that have occurred since their entry into the program. This letter, included past ones, can also be viewed at the following address for your convenience:

[http://www.encs.concordia.ca/scs/content/Sequences\\_ELEC.htm](http://www.encs.concordia.ca/scs/content/Sequences_ELEC.htm).

This letter is to advise you of any additional changes that will appear in the 2007-2008 Calendar which 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.

**VERY IMPORTANT: Students must have completed all 200-level courses required from their program before they can register for *any* 400-level course.**

**Beginning in September 2007 the credit value of many courses in the Electrical Engineering Program which had labs have changed. Courses which previously had 3.75 credits will have 3.5 credits. Courses which previously had 4.5 credits will have 4.0 credits.**

**If a course is taken prior to September 2007, it will have the old credit value. If a course is taken in September 2007 or later it will have the new credit value.**

**In any case students must take sufficient technical electives to obtain a total of 120 program credits to finish their degree.**

**1. Changes to the Engineering Core**

- a) ELEC 275 Principles of Electrical Engineering had its credit value changed from 3.75 credits to 3.5 credits. Students who have completed this course prior to September 2007 will receive 3.75 credits. As of September 2007, students will receive 3.5 credits and will have to take sufficient number of technical electives to obtain the total number of credits for their programme.

*Prepared by: Office of the Dean, Faculty of Engineering and Computer Science May 2007*

- b) EMAT 213 Ordinary Differential Equations has been replaced with ENGR 213 Applied Ordinary Differential Equations. As a transitional measure, students who have completed EMAT 213 prior to September 2006 may use it as a substitute for ENGR 213. This transitional measure may be rescinded after June 2012.
- c) EMAT 233 Advanced Calculus has been replaced with ENGR 233 Applied Advanced Calculus. As a transitional measure, students who have completed EMAT 233 prior to September 2006 may use it as a substitute for ENGR 233. This transitional measure may be rescinded after June 2012.
- d) Complementary Studies. In previous years students were given two lists from which to choose their General Education elective. The first list contained a number of prefixes from which students could choose any 200 or 300 level course (with one of these prefixes) as their General Education elective, with a few exceptions which were noted. The second list contained a number of specific courses that could also be used. *These lists have been reorganized in the following manner:*
  - Specifically, there are now three lists of courses: a Social Science list, a Humanities list and an Other Complementary Studies list. When choosing a General Education elective, which is part of the Engineering Core, students may choose any course on any of these three lists.
  - For students who have been asked to fulfill a Social Science/Humanities requirement, they must choose only from the Social Science list or the Humanities list. They may not use courses from the Other Complementary Studies list.

Please see the accompanying calendar pages. As a transitional measure, if a student completed a course prior to September 2007 in conformity with the previous requirements, it may be used as a General Education elective. This transitional measure may be rescinded after June 2012.

## **2. Electrical Engineering Core**

- a) ELEC 461 Fundamentals of Telecommunications Systems has had its course number changed to ELEC 363 and its credit value changed from 3.75 credits to 3.5 credits. Students who have completed this course prior to September 2007 will receive 3.75 credits. As of September 2007, students will receive 3.5 credits and will have to take sufficient number of technical electives in order to obtain the total number of credits for their programme.
- b) ELEC 390 Electrical Engineering Team Design Project (3 credits) has been added to the Electrical Engineering Core. As a transitional measure, students who graduate in June 2008 or earlier may graduate without this requirement.

- c) The following courses in the Electrical Engineering Core have had their credit values change:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
COEN 311	Computer Organization And Software	3.75	3.5
COEN 312	Digital System Design I	3.75	3.5
ELEC 311	Electronics I	4.5	4
ELEC 331	Fundamentals of Electrical Power Engineering	3.75	3.5
ELEC 370	Modelling and Analysis Of Physical Systems	3.75	3.5
ELEC 372	Fundamentals of Control Systems	3.75	3.5

Students will receive the old credit value if they have taken these courses prior to September 2007 or the new credit value if they take the course in question in September 2007 or later. Students must take sufficient number of technical electives in order to obtain the total number of credits for their programme.

### **3. Telecommunications Option**

#### **3a. Telecommunications Core**

ELEC 462 Digital Communications had its credit value changed from 3.75 credits to 3.5 credits. Students who have completed this course prior to September 2007 will receive 3.75 credits. As of September 2007, students will receive 3.5 credits and will have to take sufficient number of technical electives in order to obtain the total number of credits for their programme.

#### **3b. Telecommunications Technical Electives**

- a) The total length of the programme in both the 2006-2007 and 2007-2008 Calendars is 120 credits. Students must take sufficient technical electives in order to obtain this total number of programme credits.
- b) ELEC 473 Overview of Communications Systems (3.75 credits) has been removed from the Telecommunications Option Elective list. As a transitional measure, Telecommunications Option students who have completed this course prior to September 2007 may use it towards their degree. This transitional measure may be rescinded after June 2012.

- c) The following courses in the Telecommunications Option elective list have had their credit values change:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
ELEC 425	Optical Devices for High-Speed Communications	3.75	3.5
ELEC 442	Digital Signal Processing	3.75	3.5
ELEC 453	Microwave Engineering	3.75	3.5
ELEC 465	Networks Security and Management	3.75	3.5
ELEC 466	Introduction to Optical Communication Systems	3.75	3.5
ELEC 472	Advanced Telecommunications Networks	3.75	3.5

Students will receive the old credit value if they have taken these courses prior to September 2007 or the new credit value if they take the course in question in September 2007 or later. Students must take sufficient number of technical electives in order to obtain the total number of credits for their programme.

#### **4. Electronics/Systems Option**

##### **4a. Electronics/Systems Core**

The following courses in the Electronics/Systems Option Core have had their credit values change:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
COEN 315	Digital Electronics	3.75	3.5
ELEC 312	Electronics II	4.5	4
ELEC 442	Digital Signal Processing	3.75	3.5

Students will receive the old credit value if they have taken these courses prior to September 2007 or the new credit value if they take the course in question in September 2007 or later. Students must take sufficient number of technical electives in order to obtain the total number of credits for their programme.

#### 4b. Electronics/Systems Technical Electives

- a) The total length of the programme in both the 2006-2007 and 2007-2008 Calendars is 120 credits. Students must take sufficient technical electives in order to obtain this total number of programme credits.
- b) COEN 432 Applied Genetic and Evolutionary Systems (3 credits) has been added to the Electronics/Systems Option Elective list.
- c) ELEC 434 Behaviour of Power Systems (3.5 credits) has been added to the Electronics/Systems Option Elective list.
- d) ELEC 436 Protection of Power Systems (3.5 credits) has been added to the Electronics/Systems Option Elective list.
- e) INDU 463 Industrial Automation (3 credits) has been removed from the Electronics/Systems Option elective list. As a transitional measure, Electronics/Systems Option students who completed this course prior to September 2007 may use it towards their degree. This transitional measure may be rescinded after June 2012.
- f) The following courses in the Electronics/Systems Option Elective list have had their credit values change:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
ELEC 441	Modern Analog Filter Design	3.75	3.5
ELEC 462	Digital Communications	3.75	3.5
ELEC 465	Networks Security and Management	3.75	3.5
ELEC 472	Advanced Telecommunications Networks	3.75	3.5
COEN 313	Digital Design II	3.75	3.5
COEN 417	Microprocessor Systems	4.5	4
COEN 421	Embedded Systems and Evolutionary Systems	4.5	4
ELEC 421	Solid State Devices	3.75	3.5
ELEC 422	Design of Integrated Circuit Components	3.75	3.5
ELEC 424	VLSI Process Technology	3.75	3.5

ELEC 425	Optical Devices for High-Speed Communications	3.75	3.5
ELEC 430	Electrical Power Equipment	3.75	3.5
ELEC 431	Electrical Power Systems	3.75	3.5
ELEC 432	Control of Electrical Power Conversion Systems	3.75	3.5
ELEC 433	Power Electronics	3.75	3.5
ELEC 435	Electromechanical Energy Conversion Systems	3.75	3.5
ELEC 438	Industrial Electrical Systems	3.75	3.5
ELEC 481	Linear Systems	3.75	3.5
ELEC 482	System Optimization	3.75	3.5
ELEC 483	Real-Time Computer Control Systems	3.75	3.5
ENCS 472	Robot Manipulators	3.75	3.5
ELEC 453	Microwave Engineering	3.75	3.5

Students will receive the old credit value if they have taken these courses prior to September 2007 or the new credit value if they take the course in question in September 2007 or later. Students must take sufficient number of technical electives in order to obtain the total number of credits for their programme.