

May 1, 2007

STUDENT NAME
ADDRESS

Subject: Curriculum Changes in the 2007-2008 Calendar

Dear Student,

Each May, all students enrolled in the **Computer 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_COEN.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 Computer 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 in order 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 This transitional measure may be rescinded after June 2012.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. Computer Engineering Core

- a) COEN 445 Communication Networks and Protocols (4 credits) has been removed from the Computer Engineering core. For the System Software Option, it has been added to the option core. For the System Hardware Option, it has been added to the Technical Elective list.
- b) SOEN 341 Software Process (3 credits) has been removed from the Computer Engineering core. For the System Software Option, it has been added to the option core. For the System Hardware Option, it has been added to the Technical Elective list.

- c) COEN 390 Computer Engineering Team Design Project (3 credits) has been added to the Computer Engineering core. As a transitional measure, students who graduate in June 2008 or earlier may graduate without this requirement.
- d) The following courses in the Computer 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
COEN 417	Microprocessor Systems	4.5	4
ELEC 311	Electronics I	4.5	4
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. System Hardware Option

3a. System Hardware 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. It has also been removed from the System Hardware Option core and moved to the System Hardware elective list. Students will receive either 3.75 credits if they have taken this course prior to September 2007 or 3.5 credits if they take it 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.
- b) The following courses in the System Hardware Option core have had their credit values changed:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
COEN 313	Digital Design II	3.75	3.5
COEN 315	Digital Electronics	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.

3b. System Hardware 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 to obtain that total number of programme credits.
- b) The following courses have been added to the technical elective list of the System Hardware Option:

<u>Course Number</u>	<u>Course Title</u>	<u>Credit Value</u>
ELEC 363	Fundamentals of Telecommunications Systems	3.5 credits
COEN 432	Applied Genetic and Evolutionary Systems	3 credits
COEN 445	Communication Network Protocols	4 credits
SOEN 341	Software Process	3 credits

- c) The following courses on the System Hardware elective list have had their credit values changed:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
COEN 421	Embedded Systems and Software Design	4.5	4
ELEC 312	Electronics II	4.5	4
ELEC 442	Digital Signal Processing	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 Telecommunication Networks	3.75	3.5
ELEC 481	Linear Systems	3.75	3.5
ENCS 472	Robot Manipulators	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. System Software Option

4a. System Software Core

- a) COEN 445 Communication Network Protocols (4 credits) and SOEN 341 Software Process (3 credits) have been moved from the Computer Engineering Core to the System Software Option core. Thus System Software students continue to be required to do these two courses.
- b) SOEN 342 Requirements and Specifications (3 credits) and SOEN 343 Software Design (3 credits) have been removed from the System Software Option core and moved to the System Software Elective list.
- c) COEN 421 Embedded Systems and Software Design has changed its credit value from 4.5 credits to 4 credits. Students who have completed this course prior to September 2007 will receive 4.5 credits. As of September 2007, students will receive 4 credits and will have to take sufficient number of technical electives in order to obtain the total number of credits for their programme.

4b. System Software 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) The following courses have been added to the technical elective list of the System Software Option:

<u>Course Number</u>	<u>Course Title</u>	<u>Credit Value</u>
COEN 432	Applied Genetic and Evolutionary Systems	3 credits

SOEN 342	Software Requirements and Specifications	3 credits
SOEN 343	Software Design	3 credits

- c) 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.
- d) The following courses on the System Software Elective list have had their credits value changed:

<u>Course Number</u>	<u>Course Title</u>	<u>Old Credit Value</u>	<u>New Credit Value</u>
COEN 313	Digital Design II	3.75	3.5
COEN 315	Digital Electronics	3.75	3.5
ELEC 442	Digital Signal Processing	3.75	3.5
ELEC 465	Networks Security and Management	3.75	3.5
ELEC 472	Advanced Telecommunication Networks	3.75	3.5
ELEC 481	Linear Systems	3.75	3.5
ENCS 472	Robot Manipulators	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.