

**University of Windsor  
Program Development Committee**

5.5:           **Electrical and Computer Engineering – Minor Program Changes**

Item for:       **Approval**

**MOTION:**     **That the degree requirements for the BAsc in Electrical Engineering be changed according to the submitted program/course change forms.\***

*\*Subject to the approval of expenditures required.*

**Rationale/Approvals:**

- This proposed change has been approved by the Departmental Council and Engineering Faculty Coordinating Council.
- See attached.

# PROGRAM DEVELOPMENT COMMITTEE

## MINOR PROGRAM CHANGES

### FORM "C"

TITLE OF PROGRAM/CERTIFICATE: BASc in Electrical Engineering  
DEPARTMENT/SCHOOL: Electrical and Computer Engineering  
FACULTY: Engineering

Proposed change(s) effective as of Winter 2015

#### A.1 PROGRAM REQUIREMENT CHANGES

Please provide the current program requirements and the proposed new program requirements by cutting and pasting from the current undergraduate or graduate web calendar ([www.uwindsor.ca/calendars](http://www.uwindsor.ca/calendars)) and clearly marking deletions with strikethrough (~~strikethrough~~) and additions/new information with **bolding and underlining**.

Example:

Major requirements: 00-100, ~~00-104~~, 00-110, 00-210, 00-310, 00-410, plus three additional courses at the **300-level or** 400-level.

#### FOURTH YEAR

Students cannot register into any of the 4th year courses until all Electrical Engineering courses from 1st , 2nd and 3rd year have been completed. **4th year students are required to take a total of five technical electives in 4th year.**

*Fall Term* - Co-op students only  
85-498. Work Term IV

*Winter Term*  
Core Subjects - All Students  
88-400.Capstone Design Project  
88-431.Control Systems II  
88-457. Fundamentals of Digital Signal Processing

*Electives* - Select ~~two~~ electives from the list below  
[...]

*Summer Term*  
Core Subjects - All Students  
85-421.Engineering and Society  
88-400.Capstone Design Project  
88-432.EM waves and Rad. Sys. II

*Electives* - Select ~~two~~ electives from the list below  
[...]

#### A.2 MINOR COURSE CHANGES REQUIRING ADDITIONAL RESOURCES OR AFFECTING DEGREE REQUIREMENTS

If this is a minor course and calendar change (usually noted on a Form E) requiring additional resources or affecting degree requirements, please provide the current course information and the proposed new course information by cutting and pasting from the current undergraduate or graduate web calendar and clearly marking deletions with strikethrough (~~strikethrough~~) and additions/new information with **bolding and underlining**.

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*Examples of minor course changes include: deleting courses, course description changes, pre/anti/co-requisite changes, contact hour/lab requirement changes, course title changes, renumbering courses, and/or cross-listing courses. Minor course calendar changes, which do not require additional resources or do not affect degree requirements, should be submitted on a **Form E**.*

N/A

#### B. RATIONALE

*Please provide a rationale for the proposed change(s).*

The proposal is to add one more elective course at 400-level in the 4th year, with the option of taking the course in either the 7th or 8th semester. The request is to be able to comply with the CEAB accreditation requirements. With the addition of one course, the Electrical and Computer Engineering students will meet the required AU hard limits.

#### C. RESOURCES

##### C.1 Available Faculty and Staff Resources (QAF sections 2.1.7, 2.1.8, 2.1.9 and 2.1.10)

*Describe all faculty and staff resources (e.g., administrative, teaching, supervision) from all affected areas/departments currently available and actively committed to support the program change(s).*

The addition is not going to affect the Faculty. Currently ECE offers 17 elective courses for 4th year students, which allows them to get specialized knowledge in Communications, Power systems, and Computers.

##### C.1.1

*Provide an assessment of faculty expertise available and committed to actively support the revised program.*

Currently there are a variety of courses offered in various specializations for ECE students. The offered elective courses cover topics from sensors to computer communication to encryption and security. The faculty are all regular tenured members of ECE, and the addition of new course does not require new teaching member.

##### C.1.2

*Describe the area's expected reliance on, and the role of adjunct, limited-term, and sessional faculty in delivering the revised program.*

The suggested change does not require additional resources for delivering the course.

##### C.1.3

***For graduate programs:** Explain how supervisory loads will be distributed, and describe the qualifications and appointment status of faculty who will provide instruction and supervision in the revised program.*

N/A

##### C.1.4

***For graduate programs:** Where appropriate to the revised program, provide evidence that financial assistance for graduate students will be sufficient to ensure adequate quality and numbers of students.*

N/A

##### C.2 Other Available Resources

*Provide evidence that there are adequate resources available and committed to the revised program to sustain the quality of scholarship produced by undergraduate students as well as graduate students' scholarship and research activities, including for example:*

- staff support,
- library,
- teaching and learning support,
- student support services,
- space,
- equipment,
- facilities

# PROGRAM DEVELOPMENT COMMITTEE

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### FORM "C"

- GA/TA

Currently 17 elective courses are regularly delivered to 4th year students. Students now require choosing 5 of these courses to complete their degree. As these courses are generally offered and delivered each year, it does not require additional resources.

#### C.3 Resource Implications for Other Campus Units (MTCU sections 3 and 4)

*Describe the reliance of the proposed program revisions on existing resources from other campus units, including for example:*

- existing courses,
- equipment or facilities outside the proposer's control,
- external resources requiring maintenance or upgrading using external resources

*Provide relevant details.*

N/A

#### C.4 Anticipated New Resources (QAF sections 2.1.7, 2.1.8 and 2.1.9; MTCU section 4)

*List all **anticipated new resources** originating from within the area, department or faculty (external grants, donations, government grants, etc.) and committed to supporting the revisions to this program.*

New resources are not required.

#### C.5 Planned Reallocation of Resources and Cost-Savings (QAF section 2.1.7 and 2.1.9; MTCU section 4)

*Identify all opportunities for*

- internal reallocation of resources and
- cost savings

*identified and pursued by the area/department in support of the revisions to this program. (e.g., streamlining existing programs and courses, deleting courses, etc.)?*

Due to the fact that courses are offered each year, no new resources will be required.

#### C.6 Additional Resources Required – Resources Requested (QAF section 2.1.7 and 2.1.9)

*Describe all **additional faculty, staff and GA/TA resources** (in all affected areas and departments) required to run the revised program.*

**Faculty:** none

**Staff:** none

**GA/TAs:** none

##### C.6.1

*Describe all **additional institutional resources and services** required by all affected areas or departments to run the revised program, including library, teaching and learning support services, student support services, space and facilities, and equipment and its maintenance.*

**Library Resources and Services:** none

**Teaching and Learning Support:** none

**Student Support Services:** none

**Space and Facilities:** none

**Equipment (and Maintenance):** none