ELECTRICAL ENGINEERING

First Year

Fall
- Math 1004 Calculus for Eng. Students
- Chem 1101 Chemistry for Eng. Students
- Elective

Winter
- Math 1104 Linear Algebra for Eng. Students
- Math 1005 Differential Equations & Infinite Series for Eng. Students
- Elective

Second Year

Fall
- Math 2004 Introduction to Basic Science
- Math 2005 Math Methods I
- Elective
- Mechanics I

Winter
- Math 3705 Mathematical Methods II
- Elective

Third Year

Fall
- ELEC 2507 Electromagnetics
- ELEC 2602 Electrical Machines and Power
- ELEC 2508 Digital Electronics
- ELEC 2607 Switching Circuits

Winter
- ELEC 3509 Electronics II
- ELEC 3908 Power Electronics
- ELEC 3909 Electromagnetic Waves
- SYSC 2004 Switching Circuits

Fourth Year

Fall
- ELEC 4601 Microprocessors
- ELEC 3907 Engineering Project
- Elective

Winter
- ELEC 4907 / SYSC 4907 Engineering Design Project (1.0 credit)
- Elective

Notes

Course Prerequisites and Year Status Requirements

The Faculty of Engineering and Design strictly upholds course prerequisites. Course prerequisites are found in the Undergraduate Calendar course descriptions, and are indicated by arrows* between courses in this program map.

Year status in Engineering prerequisites (as noted by 2nd, 3rd, or 4th above the course box) vary year to year, please carefully review requirements for your catalog year.

Academic Advising

Obtaining regular academic advising and support for course planning is essential for engineering students who are "off-pattern" from their program map. Contact your program advisor:

First year students (new and returning):
ECORSupport@carleton.ca

Second year and higher students:
www.doe.carleton.ca/ugtickets/

Notes:

(a) Register in ELEC 4907 if your project supervisor is in DOE. Register in SYSC 4907 if your project supervisor is in SCE. Students must complete all first and second year courses, as well as 3.5 credits of third year courses (with the exception of Complementary Studies Elective) to enroll in Engineering Project.

(b) 2.0 credits in Electronics (ELEC) or Systems and Computer (SYSC) at the 4000 level or ELEC 3508, MECH 4503, SYSC 3020 or SYSC 3200.

(c) 0.5 credits from the Basic Science Elective list or ENVE, CIVE, IDES, MAEE, AERD or MECH at the 2000 level or above or ELEC or SYSC at the 4000 level or MECH 4503, SYSC 3020 or SYSC 3200.

(d) ELEC 4995 may be taken in Fall term, if required due to limited elective options in Fall term.

**Please run your audit after making any registration changes to verify they have been applied successfully.

Kindly note: this program map has been designed to ease course planning and registration for engineering students, information is accurate at the time this document is produced. Prerequisites, course titles, course offerings, and course schedule patterns are based on the academic year in which this map was prepared and are subject to change. Please contact EngAcadSupport@carleton.ca for inquiries regarding this program map.