SOFTWARE ENGINEERING
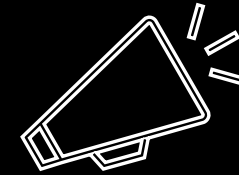
CURRICULUM UPDATES

EECS DEPARTMENTAL POLICIES

› Core Sequence:

EECS 1011 3.00, EECS 1021 3.00, EECS 2030 3.00, EECS 2011 3.00 (EECS 2101 3.00 effective Fall 2023) and EECS 2200 3.00 are core EECS BEng major courses and should be completed in the first 4 terms of study in order to progress. Note that EECS 2030 3.00 must be successfully completed prior to EECS 2011 3.00 (EECS 2101 3.00 effective Fall 2023).

› NEW: E/F/G/H/I/V/X/Y/Z Sections:

LE/EECS courses must be completed in sections E/F/G/H/I/V/X/Y/Z . Exceptions:

- EECS 1028 3.00 may be completed in any section.
- If an upper year technical elective course is offered in an E/F/G/H/I/V/X/Y/Z section, the course should be completed in one of these sections. If the course is not offered in an E/F/G/H/I/V/X/Y/Z section, *any* section may be taken.
- **For Software Engineering,** the following courses are not offered in E/F/G/H/I/V/X/Y/Z sections, therefore the following courses may be completed in any section: LE/EECS 3214, 3481, 3482, 4404, 4411, 4412, 4414, 4415, 4481, 4482.
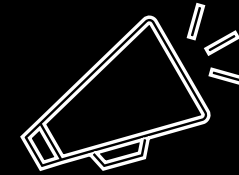
Know before you enrol 1.0

EECS DEPARTMENTAL POLICIES

› **4.50 EECS GPA Pre-requisite:**

Most 2000-, 3000-, and 4000-level EECS courses require a cumulative GPA of 4.50 or better over all EECS major courses in addition to other course-specific prerequisites. Note: "Major" courses are all EECS courses with second digit other than 5 and include LE/EECS 1028 3.00 (cross-listed to: SC/MATH 1028 3.00) and LE/EECS 1019 3.00 (cross-listed to: SC/MATH 1019 3.00).

› Course Limits:

To ensure students can get access to the EECS courses they need and to ensure that students' course loads are reasonable, students are ordinarily restricted to taking at most four EECS courses per term. If the student is in their last semester (F,W,S) and can graduate with an extra course then EECS will permit enrolment in the additional course, space permitting. If the student has an OCGPA >= 7 and is not graduating, EECS will allow an extra course, space permitting. Because of limited course availability in Summer terms, effective Summer 2022 the limit is now reduced to two.

Know before you enrol 2.0

EECS DEPARTMENTAL POLICIES

❯ Enrollment:

Leading up to and at the beginning of each term, the EECS department checks pre-requisites and de-enrolls students who do not satisfy them to make space for students who do. This means we must freeze all enrollments in EECS courses a few weeks before the beginning of the term (so that de-enrolled students do not re-enroll themselves). An unfortunate side-effect of this freezing is that you are not able to transfer between sections or labs of a course. So:

- Enroll in your EECS courses early;
- Choose the section and lab you want before enrolments are frozen; and
- Carefully check that you satisfy the pre-requisites for your courses.
- If an EECS course is full, continue trying to add the course via REM, in case spaces become available.

❯ Reserved Spaces:

Engineering students, in most cases, cannot enroll for their major courses in A/B/C/M/N/O sections and will get a "course is reserved" message if they try. Most, if not all, seats in E/F/G/H/I/V/X/Y/Z sections are reserved for BEng students and if you have difficulty enrolling in these courses, you should contact the EECS undergraduate office.

❯ Waiting List:

If you are unable to enroll in an EECS course, visit the EECS Department "Announcements" web page a few weeks before the beginning of the term to enter a waiting list request. The department will do its best to ensure that the students who need a course to make progress towards their degree get access to that course.

Troubleshooting 1.0

EECS DEPARTMENTAL POLICIES

› What to do if your EECS GPA falls below 4.50:

- Identify the issues that caused you to receive a grade below the minimum 4.50 (C to C+) threshold.
- Do you need to improve your study skills? Explore "GPA Requirements and Additional Support".
- Repeat EECS courses where your grades are low (especially courses where you earned a grade lower than C).
- Use resources available in your courses: ask TAs questions in labs, go to instructors' office hours for extra help, make use of supplementary readings or course resources, etc.
- If you are unsure about what courses you should repeat, connect with an Academic Advisor.

Troubleshooting 2.0

SOFTWARE ENGINEERING

RECAP

Science and Technical Electives:

Students are required to complete science electives and upper year technical electives. Students are permitted to choose courses from newer Academic Calendar lists. This does not change the credit requirement within the Academic Calendar you are following but allows for greater choice in course selection. For example, students following an older Calendar can choose from the updated list of technical electives appearing in the new 2025-2026 Academic Calendar for their program.

General Stream – Course Substitution:

Students following an Academic Calendar requiring ENG 4550 3.00 may complete EECS 3452 3.00 instead.

Big Data Stream – Replacement:

EECS 4404 3.00 is replaced with EECS 3405 3.00

SOFTWARE ENGINEERING

EECS 2011 3.00 is renumbered to EECS 2101 3.00 effective Fall 2023:

The course title remains:

"*Fundamentals of Data Structures*".

The pre-requisites remain:

- Cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"), AND
- LE/EECS1019 3.00 or LE/EECS1028 3.00 or SC/MATH1019 3.00 or SC/MATH1028 3.00, AND
- LE/EECS1030 3.00 or LE/EECS2030 3.00

The Degree Progress Report (DPR) does not automatically recognize EECS 2101 as potentially satisfying or satisfying EECS 2011. An Academic Advisor will update your DPR for you upon successful completion of the course. No action is required on your part.

Replacement: EECS 2032 4.00 will be required instead of EECS 2031 3.00. Note that EECS 2032 4.00 lists EECS 2030 3.00 as a co-requisite. Electrical Engineering students are not required to complete EECS 2030 3.00 as a co-requisite.

Replacement: EECS 3216 3.00 will be required instead of EECS 3215 4.00.

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SOFTWARE ENGINEERING

Software Engineering Streams:

- General
- Security
- Big Data

Degree requirements per stream are reflected in the Academic Calendar.

Students wishing to switch streams may request so via the Change of Engineering Major form on the Lassonde Program Changes website.

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TRANSFERS TO COMPUTER SCIENCE OR COMPUTER SECURITY

RECAP

If transferring *from* Engineering *to* Computer Science or Computer Security:

If you successfully completed this course while in Engineering:	You are exempt from this course for Computer Science or Computer Security:
EECS 1011 3.00	EECS 1012 3.00 (or EECS 1015 3.00 if pursuing Computer Science)*
EECS 1021 3.00	EECS 1022 3.00*
EECS 1028 3.00	EECS 1019 3.00
EECS 2032 3.00	EECS 2031 3.00*
EECS 3216 3.00	EECS 3215 4.00*
PHYS 1800 3.00, PHYS 1801 3.00, and/or CHEM 1100 4.00	Count toward 6.00 credit foundational science lab requirement for BSc/iBSc
ENG 2003 3.00, ENG 3000 3.0, and/or MECH 2112 3.00	Count toward 12.00 credit non-science requirement for BSc/iBSc

These exemptions do not work in reverse. For example, if you successfully completed EECS 1012 3.00 and/or 1015 3.00 and/or EECS 1022 3.00 while in Computer Science or Computer Security and then subsequently change your program to Engineering, you must still successfully complete EECS 1011 3.00 and EECS 1021 3.00 for Engineering.

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