Master of Engineering (MEng), Specialization in Software Engineering
Course Requirements 2024 - 2025

Student Status

Full-time students in the MEng program are normally registered during the Fall and Winter terms (September to April) with a regularly scheduled break during Spring/Summer terms (May to August). Students will be considered full-time if they enroll in a minimum of 2 courses (6 units) per term during each of the Fall and Winter terms.

The Software Engineering specialization is an intensive, cohort-based program with no scheduled break. Students are required to complete this program in 8-month or 12-month, based upon prior academic background as determined at admission.

Academic Standing

B- is the minimum passing grade for students enrolled in graduate programs at the University of Calgary. A student who receives a C+ or lower in any course will normally be required to withdraw from the program.

Students are also required to maintain a minimum Grade Point Average (GPA) of 3.0 each year. A student whose GPA is lower than 3.0 at the time of their registration anniversary will normally be required to withdraw from the program.

University of Calgary Calendar

Please refer to the University of Calgary Graduate Calendar for more detailed information on program regulations and requirements. The Graduate Calendar is available on-line at University of Calgary: Calendars (ucalgary.ca)

Created: March 2024

MEng in the Department of Electrical and Software Engineering

MEng in Electrical Engineering with Software Engineering Specialization (1 year program)

YEAR 1

Foundation courses	1	required	**ENSF 692**	*only required for non-Software engineering background*	Spring
Foundation courses	2	required	**ENSF 693**	*only required for non-Software engineering background*	Spring
Foundation courses	3	required	**ENSF 694**	*only required for non-Software engineering background*	Summer
ENSF core	4	required	**ENSF 607**	Advanced Software Development and Architecture	Fall
ENSF core	5	required	**ENSF 608**	Databases	Fall
ENSF core	6	required	**ENSF 611**	Machine Learning for Software Engineers	Fall
ENSF core	7	required	**ENSF 612**	Engineering Large Scale Data Analytics Systems	Fall
ENSF core	8	required	**ENSF 614**	Advanced System Analysis and Software Design	Fall
ENSF core	9	required	**ENSF 609**	Team Design Project in Software Engineering I	Winter
ENSF core	10	required	**ENSF 610**	Team Design Project in Software Engineering II	Winter
Option (at least 1 of 2)	11 or 12	option	**ENEL 645**	Data Mining and Machine Learning	Winter
Option (at least 1 of 2)	11 or 12	option	**SENG 637**	Dependability and Reliability of Software Systems	Winter
Option (at least 1 of 4)	12 or 13	option	**ENGG 681**	Engineering Tools	Winter
Option (at least 1 of 4)	12 or 13	option	**ENGG 683**	Innovation and Entrepreneurship	Winter
Option (at least 1 of 4)	*12 or 13*	*option*	***ENGG 684***	*Project Management for Engineers*	*Fall*
Option (at least 1 of 4)	*12 or 13*	*option*	***ENGG 687***	*Ethics, Law, and the Engineering Profession*	*Fall*