

Master of Engineering (MEng) in Electrical Engineering Program: 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 minimum of 2 courses (6 units) per term during each of the Fall and Winter terms.

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 3.0/4.0, 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 <u>University of Calgary: Calendars (ucalgary.ca)</u>

Created: March 2024

Course based MEng programs in the Department of Electrical and Software Engineering

There are two pathways available within MEng program (except MEng Software), which requires completion of 10 courses (30 units):

- 1. MEng in Electrical Engineering without specialization; Sustainable Electrical Engineering theme.
- 2. Specialization in Energy and Environment.

MEng in Electrical Engineering

Theme: Sustainable Electrical Energy

YEAR 1						
ENGG core	1	required	ENGG 682	Sustainability Engineering		Fall
ENEL core	2	required	ENEL 680	Applied Optimization for Sustainable Design		Fall
ENEL core	3	required	ENEL 672	Power Electronics for Renewable Energy	,	Winter
ENEL core	4	required	ENEL 674	Industrial and Commercial Power Systems	,	Winter
ENEL core	5	required	ENEL 682	Applied Machine Learning and Predictive Analytics	,	Winter
YEAR 2						
ENEL core	6	required	ENEL 670	Power Systems Analyses Applications		Fall
Option (1 of 2)	10	option	ENEL 684	Identification for Control		Fall
ENGG core	7	required	ENGG 687	Ethics, Law and the Engineering Profession		Fall
ENEL core	8	required	ENEL 676	Distributed Energy Resources	,	Winter
ENEL core	9	required	ENEL 678	Graduate Project in Electrical Engineering	,	Winter
Option (1 of 2)	10	option	ENEL 686	Embedded Systems	,	Winter

MEng in Electrical Engineering with Energy & Environment Specialization

YEAR 1

ENEN core ENEN option (1 of 4) ENEN option (2 of 4)	1 2 3	required option option	ENEN 671	Energy and Environment Any ENEN 6XX course Any ENEN 6XX course	Fall Fall Fall
ENEL core	4	required	ENEL 672	Power Electronics for Renewable Energy	Winter
ENEL core	5	required	ENEL 682	Applied Machine Learning and Predictive Analytics	Winter
YEAR 2					
ENEL core	6	required	ENEL 670	Power Systems Analyses Applications	Fall
ENEN option (3 of 4)	7	option		Any ENEN 6XX course	Fall
ENEL core	8	required	ENEL 676	Distributed Energy Resources	Winter
ENEL core	9	required	ENEL 678	Graduate Project in Electrical Engineering	Winter
ENEN option (4 of 4)	10	option		Any ENEN 6XX course	Winter