Diploma in Engineering Foundations Registration Package

UNB Saint John offers a two-year Diploma in Engineering Foundations program in Chemical, Civil, Electrical, Environmental, Mechanical or Software Engineering. The Diploma in Engineering Foundations provides students with a basic understanding of scientific principles, and a foundation in engineering mathematics, design, and technical communication. Upon the successful completion of this two-year program of study, students are awarded the diploma, and can either move to UNB Fredericton or stay at UNB Saint John to complete the BSc Environmental degree. Alternatively, they may seek admission with advanced standing at another university to complete their undergraduate degree.

FALL TERM REGISTRATION

The following table lists the courses recommended for the first term of the Diploma in Engineering Foundations program. This is the recommended course plan generally taken by first year engineering students, however, students may modify their course plan in consultation with an Academic Advisor to understand any impacts to subsequent terms. Students are able to adjust their course registrations up to **September 12th, 2025** (classes start September 3rd, 2025).

Students who have an idea of which Engineering discipline they would like to declare in the second term (i.e., Chemical, Civil, Electrical, Environmental, Mechanical or Software) may also register for the appropriate winter term courses on the following page at the same time. Students who are unsure can postpone registering for the winter term until they gain a better understanding of the different engineering disciplines throughout their fall term courses.

FALL 2025	
APSC 1011	Mechanics I
APSC 1015	Mechanics I Laboratory
CMPE 1003*	Programming and Problem Solving for Engineers
ENGG 1001	Engineering Practice Lecture Series I
ENGG 1003	Engineering Technical Communication
ENGG 1015	Introduction to Engineering Design and Problem Solving
MATH 1003	Introduction to Calculus I
MATH 1503	Introduction to Linear Algebra

*NOTE – Students taking Software Engineering should register for CS 1073 Introduction to Computer Programming I (in Java) instead of CMPE 1003.

For instructions and help with registering for courses, please visit the MyUNB Intranet. Go to the 'Services & Information for Students' section. Under 'Academics', click on the 'Information for Course Registration' link.

For additional program information please visit unb.ca/saintjohn/sase/dept/engineering. Course plans/degree checklists are available at unb.ca/saintjohn/sase/advising. You are expected to maintain an updated checklist and meet with your Academic Advisor at least once a year to review your course plans.

WINTER TERM REGISTRATION

The following table lists the courses recommended for the second term according to discipline. You can register for them now or later in the fall term but you must be registered before the start of the winter term in January. You are able to modify your 2026 Winter course registrations until **January 16th, 2026** (classes start January 5th, 2026).

NOTE – In November 2025, you will be asked to declare the discipline of your choice. Acceptance into each discipline will be confirmed by the Faculty of Engineering before the start of winter term. Your winter term courses may need to be adjusted based on these results.

Discipline	WINTER 2026	
ALL	CHEM 1872	General Physical and Inorganic Chemistry
	CHEM 1877	General Physical and Inorganic Chemistry Laboratory
	ENGG 1002	Engineering Practice Lecture Series II
	MATH 1013	Introduction to Calculus II
PLUS		
Chemical	APSC 1021	Mechanics II
	APSC 1025	Mechanics II Laboratory
	BIOL 1205	Biological Principals, Part II
	CHE 2003	Fundamentals I - Mass Balances
	ECE 1813	Electricity and Magnetism
Civil	APSC 1021	Mechanics II
	APSC 1025	Mechanics II Laboratory
	CE 2973	Civil Engineering Design I
	ECON 1013 (or 1023)	Introduction to Microeconomics (or Macroeconomics)
	NCTE**	
Electrical	APSC 1021	Mechanics II
	APSC 1025	Mechanics II Laboratory
	CMPE 1023	Data Structures and Algorithms for Engineers
	ECE 1813	Electricity and Magnetism
Environmental	APSC 1021	Mechanics II
	APSC 1025	Mechanics II Laboratory
	BIOL 1302	Introduction to Environmental Biology
	CHE 2003	Fundamentals I – Mass Balance
Mechanical	APSC 1021	Mechanics II
	APSC 1025	Mechanics II Laboratory
	ECE 1813	Electricity and Magnetism
	ME 1312	Computer Aided Design
Software	CS 1083	Introduction to Computer Programming II (in Java)
	CS 1103	Introduction to Databases
	ECE 1813	Electricity and Magnetism

** **NCTE** (Non-Civil Technical Elective): e.g. ECE 1813 or ME 1312.
See Program Description in the Undergraduate Academic Calendar for additional details!