

Dalhousie University - Bachelor of Engineering - Engineering Core Program - Year 1 & 2 Curriculum

For students entering their Year 3 program in Fall 2024 or Fall 2025

YEAR ONE	Fall Year 1	
	CHEM1021	Engineering Chemistry I
	CPST1103	Technical Communications I
	ENGI1103	Engineering Design I
	ENGM1081	Computer Programming
	MATH1280	Engineering Math I
	PHYC1190	Introduction to Physics I

Winter Year 1	
CHEM1022	Engineering Chemistry II
CPST1203	Technical Communications II
ENGI1203	Mechanics I: Statics
ENGM1041	Applied Linear Algebra
MATH1290	Engineering Math II
PHYC 1290	Introduction to Physics II

Notes:

All students must apply for a Year 3 placement in an Engineering Discipline. Students following the recommended course plan must apply in the Winter term of their First Year

All students must complete all Engineering Core courses required for their placement prior to admission to their Year 3 program with a cumulative Engineering GPA >= 2.00 (Co-op requires >= 2.30)

YEAR TWO	Fall Year 2	
	ECED2000	Electric Circuits
	ENGI2102	Thermofluid Engineering I
	ENGM2032	Applied Probability & Statistics
	ENGM2101	Applied Vector Calculus
	IENG2005	Engineering Economics
	Writing I*	Writing Elective (see list)~

Winter Year 2	
ENGI2203	Engineering Design II
ENGM2022	Applied Differential Equations
ASSC1971	Engineering and Society

+3 Specific Discipline Courses (as below)							
		Chemical	Civil	Environmental	Electrical	Mechanical	Industrial*
YEAR TWO	CHEE2201	Introduction to Chemical Eng.	Required				Do Any 2
	CHEE2203	Organic Chemistry	Required				Do Any 2
	ECED2001	Circuit Analysis				Required	Do Any 2
	ECED2200	Digital Circuits				Required	Do Any 2
	ENGI2103	Thermofluid Engineering II	Required	Required	Required		Required
	ENGI2204	Mechanics of Materials		Required	Required		Required
	MECH2400	Mechanics II: Dynamics					Required
	ENGM2283	Data Structures & Algorithms				Required	Do Any 2
	IENG2201	Modelling and Optimization					Required
	MINE2200	Geology for Engineers		Required	Required		Do Any 2

Notes:

MINE2200 will be renamed CIVL2200 in W2024. Courses are equivalent

MECH2400 was formerly ENGI2400. Courses are equivalent.

ASSC1971 was formerly HIST 1971. Courses are equivalent.

For Years 3, 4 (or 5) curriculum, please refer to the Undergraduate Academic Calendar

~Acceptable Writing 1 Courses

^CRWR 1030 FREN 1200

ENGL 1005 FREN 1200

ENGL 1015 +GERM 1025

ENGL 1025 GERM 1027

^ENGL 1030 HIST 1022

ENGL 1040 HIST 1023

ENGL 1050 ^HIST 1510

+ENGL 1060 POLI 1001

FREN 1100 +RUSN 1020

Prohibited Courses: ENGL 1100, SUST 1000 & SCIE 1111

+ recommended course

^ 6 credit hour course - cannot be taken if following normal course load

Not all courses are available in any given term

*For students entering Industrial Engineering in the Fall of 2026: Students will need to complete IENG 2201, A Python Programming Course and a Complementary Studies Elective