

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

For students entering their Year 3 program in Fall 2026 or Fall 2027

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  $\geq 2.00$  (Co-op requires  $\geq 2.30$ )

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				
	CHEE2203	Organic Chemistry	Required				
	ECED2001	Circuit Analysis				Required	
	ECED2200	Digital Circuits				Required	
	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	
	IENG2201	Modelling and Optimization					Required
	CIVL2200	Geology for Engineers		Required	Required		
	ENGM2620	Python Programming					Required
Complementary Studies Elective`							Required

Notes:

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

## \*Acceptable Writing 1 Courses

^CRWR 1030 FREN 1200  
 +ENGL 1005 +GERM 1025  
 ENGL 1015 GERM 1027  
 ENGL 1025 HIST 1022  
 ^ENGL 1030 HIST 1023  
 ENGL 1040 ^HIST 1510  
 ENGL 1050 POLI 1001  
 ENGL 1060 FREN 1100

+FREN 1200 ^SUST 1000

Prohibited Courses: ENGL 1100 & SCIE 1111

+ recommended course (due to scheduling, not content)

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

Not all Writing courses are available in any given term

ENGM 2620 will first be offered in Winter 2026

CIVL2200 was formerly MINE 2200. Courses are equivalent

MECH2400 was formerly ENGI2400. Courses are equivalent.