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

For students entering their Year 3 program in Fall 2026

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)~	

***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	+RUSN 1020

+FREN 1100

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 courses are available in any given term

YEAR TWO

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

+3 Specifc Discipline Courses (as below)

			Chemical	Civil	Environmental	Electrical	Mechanical	Industrial*
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			
IENG TBD~	Python Programming							Required
Complementary Studies Elective`								Required

Notes:

~Python Programming Course will first be offerred in Winter 2026

CIVL2200 was formerly MINE 2200. Courses are equivalent

MECH2400 was formerly ENGI2400. Courses are equivalent.

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