

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

For students entering their Year 3 program in Fall 2026, Fall 2027 or Fall 2028

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  $\geq 2.00$

Fall Year 2	
ECED2000	Electric Circuits
ENGI2102	Thermofluid Engineering I
ENGM2032	Applied Probability & Statistics
ENGM2101	Applied Vector Calculus
IENG2005	Engineering Economics
ASSC 1111*	Academic Writing (or from list below)

Winter Year 2								
ENGI2203	Engineering Design II							
ENGM2022	Applied Differential Equations							
ASSC1971	Engineering and Society	OR	CPST 2100 Indigenous Perspectives on Engineering					
+3 Specific Discipline Courses (as below)								
		Chemical	Civil	Environmental	Electrical	Mechanical	Industrial*	Computer
CHEE2201	Introduction to Chemical Eng.	Required						
CHEE2203	Organic Chemistry	Required						
ECED2001	Circuit Analysis				Required			Required
ECED2200	Digital Circuits				Required			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			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

## \*Other 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 ^SUST 1000  
 ENGL 1060 FREN 1100

FREN 1200

Prohibited Courses: ENGL 1100, 1111 & SCIE 1111

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

Not all Writing courses are available in any given term

CIVL2200 was formerly MINE 2200. Courses are equivalent

MECH2400 was formerly ENGI2400. Courses are equivalent.

ASSC1971 was formerly HIST 1971. Courses are equivalent.

## \*Complementary Studies Electives

Any course which satisfies one of the following requirements:

- Subject matter that deals with the humanities and social sciences;
- Oral and written communications;
- Professionalism, ethics, equity and law;
- The impact of technology and/or engineering on society;
- Health and safety;
- Sustainable development and environmental stewardship;
- Engineering economics and project management.