

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING - 4 Year 2 Co-op Plan
CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1342 Calculus 2 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE 1501 Cornerstone Eng. 1 4 ENGW1111 College Writing 4	MATH2321 Calculus 3 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE 1502 Cornerstone Eng. 2 4 Elective General Elective 4	ME2350 Statics 4 Elective General Elective 4	Vacation
Year 2 (MC)	MATH2341 Diff. Eq./ Lin. Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 Elective General Elective 4	ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ENCP2000 Intro to Eng'g, Co-op Elective 4 General Elective 4	ME3475 Fluid Mech. 4 Elective General Elective 4	Co-op
Year 2 (MD)	MATH2341 Diff. Eq./ Lin. Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 ENCP2000 Intro to Eng'g, Co-op 1	Co-op	Co-op	ME3475 Fluid Mech. 4 Elective General Elective 4
Year 3 (MC)	ENGW3302 Adv Writing in the Tech Prof (to be taken online) 4 Co-op	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 ME4570 Ther. Sys. Anal. Design 4 ME4555 Syst. Analysis & Control 4 ENCP3000 Prof. Issues In Eng'g, 1	ME4550 ME Design 4 MEIE4701 Capstone Design 1 Elective General Elective 4	Co-op
Year 3 (MD)	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4570 Ther. Sys. Anal. Design 4 Elective General Elective 4	ENGW3302 Adv Writing in the Tech Prof (to be taken online) 4 Co-op	Co-op	Elective General Elective 4 ME4550 ME Design 4 MEIE4701 Capstone 1 1
Year 4 (MC)	Co-op	ME4508 ME Computation 4 Elective **Science/Math Elective 4 MEIE4702 Capstone Design 2 5 Elective MIE Technical Elective 4		
Year 4 (MD)	EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 ME4555 Syst. Analysis & Control 4 MEIE4702 Capstone Design 2 5 Elective General Elective 4 ENCP3000 Prof. Issues in Eng'g, 1	ME4508 ME Computation 4 Elective MIE Technical Elective 4 Elective **Science/Math Elective 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1		

Revised 4/1/2019

You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor

*** Course selection will be determined in consultation with your first-year advisor. Students are encouraged to use AP credit and transfer credits obtained prior to coming to Northeastern to take advantage of the 4-year, 2-coop program.

** Science/Math Elective - Please consult with your academic advisor for the complete list of acceptable courses.

* [ENGW3315](#) is an acceptable substitution for engineering majors.

NUpath Requirements through General Electives- NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

MIE Technical Elective - 1 required - Any ME, IE or EMGT class that is not part of the Mechanical Engineering core curriculum.

Electives may be interchanged.

[Please consult with your Academic Advisor, found here.](#)

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.