

MECHANICAL AND INDUSTRIAL ENGINEERING DEPARTMENT
BS-MS PROGRAM IN MECHANICAL ENGINEERING - CLASS OF 2022, 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1341 Calculus 1 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	MATH1342 Calculus 2 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	Vacation	Vacation
Year 2 (AA)	MATH2321 Calculus 3 for Engrs. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Eng'g Mech & Design 4 Elective General Elective 4	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 MEIE2000 Intro to Eng'g, Co-op 1	Vacation	Co-op
Year 2 (BB)	MATH2321 Calculus 3 for Engrs. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Eng'g, Mech. & Design 4 MEIE2000 Intro to Eng'g, Co-op 1 Elective General Elective 4	Co-op	Co-op	Vacation
Year 3 (AA)	Co-op	EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 ME3455 Dynamics & Vib. 4 ME3456 Lab for ME3455 1 ME4508 ME Computation 4 ME4555 Sys. Anal. & Control 4	ME3475 Fluid Mech. 4 *ENGW3302 Adv. Writing for Prof. 4	Co-op
Year 3 (BB)	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4	Co-op	Co-op	ME3475 Fluid Mech. 4 *ENGW3302 Adv. Writing for Prof. 4
Year 4 (YC)	Co-op	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 Elective MIE Technical Elective 4 ME4570 Ther. Sys. Anal. Design 4 MEIE3000 Prof. Issues In Eng'g, Graduate Course 1 1 4	Vacation	ME4550 ME Design 4 MEIE4701 Capstone 1 1 **Science/Math Elect 4
Year 4 (ZC)	ME3455 Dyn. & Vibration 4 ME3456 Lab for ME3455 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4508 ME Comp. 4 ME4570 Ther. Sys. Anal. Design 4	EECE2210 Elec. Engineering 4 EECE2211 Lab for EECE2210 1 ME4555 Syst. Analysis & Control 4 Elective MIE Technical Elective 4 MEIE3000 Prof. Issues in Eng'g, Graduate Course 1 1 4	Vacation	ME4550 ME Design 4 MEIE4701 Capstone 1 1 **Science/Math Elect 4
Year 5 (YC)	MEIE4702 Capstone Design 2 5 Graduate Course 2 4 Graduate Course 3 4 Graduate Course 4 4	MEIE6850 Graduate Course 5 4 Graduate Course 6 4 Graduate Course 7 4 Graduate Course 8 4 Research Seminar 0		
Year 5 (ZC)	MEIE4702 Capstone Design 2 5 Graduate Course 2 4 Graduate Course 3 4 Graduate Course 4 4	MEIE6850 Graduate Course 5 4 Graduate Course 6 4 Graduate Course 7 4 Graduate Course 8 4 Research Seminar 0		

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

3/1/18

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

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 :

Last Names A-G Roy Dalsheim - r.dalsheim@northeastern.edu

Last Names H-N Katherine Bradley - k.bradley@northeastern.edu

Last Names O-Z Laura Kenney - l.kenney@northeastern.edu

Students will be required to meet with an undergraduate advisor to petition to enter the program.

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

ME Graduate Electives: 8 required - Full program must be approved by a graduate advisor.

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