

MECHANICAL AND INDUSTRIAL ENGINEERING DEPARTMENT
BS-MS PROGRAM IN MECHANICAL ENGINEERING - CLASS OF 2017, 2018, 2019, 2020

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 GE1110 Eng'g. Design 4 NU CORE Arts or Humanities Lvl. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1111 Eng'g. Prob. Solv. & Comp. 4 ENGW1111 College Writing 4	Vacation	Vacation
Year 2 (AA)	MATH2321 Calculus 3 for Engrs. 4 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Eng'g Mech & Design 4	MATH2341 Diff. Eq./ Lin. Alg. 4 EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 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 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 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	Co-op	Co-op	Vacation
Year 3 (AA)	Co-op	ME 2340 Material Science 4 ME 2341 Lab for ME 2340 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 4 ME4570 Ther. Sys. Anal. Design 4 MEIE3000 Prof. Issues In Eng'g, Graduate Course 1 4	Vacation	ME4550 ME Design 4 MEIE4701 Capstone 1 1 NU CORE Social Science Lvl. 1 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 4 MEIE3000 Prof. Issues in Eng'g, Graduate Course 1 4	Vacation	ME4550 ME Design 4 MEIE4701 Capstone 1 1 NU CORE Social Science Lvl. 1 4
Year 5 (YC)	MEIE4702 Capstone Design 2 5 Graduate Course 2 4 Graduate Course 3 4 Graduate Course 4 4	MEIE6850 Research Seminar 0 Graduate Course 5 4 Graduate Course 6 4 Graduate Course 7 4 Graduate Course 8 4		
Year 5 (ZC)	MEIE4702 Capstone Design 2 5 Graduate Course 2 4 Graduate Course 3 4 Graduate Course 4 4	MEIE6850 Research Seminar 0 Graduate Course 5 4 Graduate Course 6 4 Graduate Course 7 4 Graduate Course 8 4		

revised 2/20/15

*** ENGW3315 is an acceptable substitution for engineering majors.**

English course prefixes have changed from ENGL to ENGW. ENGW1111 is equivalent to ENGL1111. ENGW3302 is equivalent to ENGL3302. Effective Fall 2014, the ENGW 3301 course number will be retired. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENGW 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

NU Core Elective Requirements: 2 required- (one Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl 1)

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 advisor :

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Last Names L-Z: Laura Kenney - 220 Snell, 617-373-2154, lkenney@coe.neu.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 Courses: 8 required, plus MEIE6850(Research Seminar), The full program must be approved by the faculty advisor.

MEIE6850 is required for students entering the BSMS program in the Fall of 2014 and beyond.

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