

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING - 4 Year 2 Co-op Plan**  
**CURRICULUM OUTLINE - CLASS OF 2016, 2017, 2018, 2019**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Freshman Year 1</b>	<a href="#">MATH1341</a> Calculus 1 for Engrs. 4 <a href="#">CHEM1151</a> General Chem. for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE1000</a> Intro to Eng'g. 1 <a href="#">GE1110</a> Eng'g. Design 4 <a href="#">NU_CORE</a> Arts or Humanities Lvl. 1 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE1111</a> Eng'g. Prob. Solv.& Comp. 4 <a href="#">ENGW1111</a> College Writing 4	School *	Vacation
<b>Year 2 (MC)</b>	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">BIOL1115</a> Biology 4 <a href="#">BIOL1116</a> Lab for BIOL1115 1 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">ME2350</a> Eng'g Mech & Design 4	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4 <a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME2355</a> Mech. of Materials 4 <a href="#">ME2356</a> Lab for ME2355 1 <a href="#">ME2380</a> Thermodynamics 4 <a href="#">MEIE2000</a> Intro to Eng'g, Co-op 1	<a href="#">ME3475</a> Fluid Mech. 4 Elective General Elective 1 4	Co-op
<b>Year 2 (MD)</b>	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">BIOL1115</a> Biology 4 <a href="#">BIOL1116</a> Lab for BIOL1115 1 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">ME2350</a> Eng'g, Mech. & Design 4 <a href="#">MEIE2000</a> Intro to Eng'g, Co-op 1	Co-op	Co-op	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4 <a href="#">NU_CORE</a> Social Science Lvl. 1 4
<b>Year 3 (MC)</b>	Co-op	<a href="#">ME3455</a> Dynamics & Vib. 4 <a href="#">ME3456</a> Lab for ME3455 1 <a href="#">ME4505</a> Meas. Anal. Thermal 4 <a href="#">ME4506</a> Lab for ME4505 1 <a href="#">ME4508</a> ME Computation 4 <a href="#">ME4570</a> Ther. Sys. Anal. Design 4 <a href="#">MEIE3000</a> Prof. Issues In Eng'g, 1	<a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone Design 1 <a href="#">NU_CORE</a> Social Science Lvl. 1 4	Co-op
<b>Year 3 (MD)</b>	<a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME2355</a> Mech. of Materials 4 <a href="#">ME2356</a> Lab for ME2355 1 <a href="#">ME2380</a> Thermodynamics 4 <a href="#">ME3455</a> Dyn. & Vibration 4 <a href="#">ME3456</a> Lab for ME3455 1	Co-op	Co-op	<a href="#">ME3475</a> Fluid Mech. 4 <a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone 1 1
<b>Year 4 (MC)</b>	Co-op	<a href="#">EECE2210</a> Elect. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 <a href="#">ME4555</a> Sys. Anal. & Control 4 <a href="#">MEIE4702</a> Capstone Design 2 5 Elective MIE Technical Elective 4		
<b>Year 4 (MD)</b>	<a href="#">ME4505</a> Meas. Anal. Thermal 4 <a href="#">ME4506</a> Lab for ME4505 1 <a href="#">ME4508</a> ME Comp. 4 <a href="#">MEIE4702</a> Capstone Design 2 5 <a href="#">ME4570</a> Ther. Sys. Anal. Design 4 <a href="#">MEIE3000</a> Prof. Issues in Eng'g, 1	<a href="#">EECE2210</a> Elect. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 <a href="#">ME4555</a> Syst. Analysis & Control 4 Elective MIE Technical Elective 4 Elective General Elective 1 4		

Revised 4/14/2014

**You will meet with an academic advisor to determine scheduling of these required classes:**

Elective	General Elective 2	4
Elective	General Elective 3	4
Elective	General Elective 4	4
<a href="#">**ENGW3302</a>	Adv. Writing for Prof.	4

\* **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.

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

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

**General Electives:** 4 required - Any 4 SH course that is not remedial or repetitive.

**Electives may be interchanged. Please consult with your advisor :**

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