

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

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

	FALL		SPRING		SUMMER 1		SUMMER 2			
Freshman Year 1	<a href="#">MATH1342</a>	Calculus 2 for Engrs.	4	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	<a href="#">ME2350</a>	Eng'g Mech & Design	4	
	<a href="#">CHEM1151</a>	General Chem. for Engrs.	4	<a href="#">PHYS1151</a>	Physics 1 Engrs.	3	Elective	General Elective	4	
	<a href="#">CHEM1153</a>	Recitation for CHEM1151	0	<a href="#">PHYS1152</a>	Physics 1 Lab	1				
	<a href="#">GE1000</a>	Intro to Eng'g.	1	<a href="#">PHYS1153</a>	ILS for PHYS1151	1				
	<a href="#">GE 1501</a>	Cornerstone Eng. 1	4	<a href="#">GE 1502</a>	Cornerstone Eng. 2	4				
	<a href="#">ENGW1111</a>	College Writing	4	Elective	General Elective	4			Vacation	
Year 2 (MC)	<a href="#">MATH2341</a>	Diff. Eq./ Lin. Alg.	4	<a href="#">ME2380</a>	Thermodynamics	4	<a href="#">ME3475</a>	Fluid Mech.	4	
	<a href="#">PHYS1155</a>	Physics 2 for Engrs.	3	<a href="#">ME3455</a>	Dynamics & Vib.	4	Elective	General Elective	4	
	<a href="#">PHYS1156</a>	Physics 2 Lab	1	<a href="#">ME3456</a>	Lab for ME3455	1				
	<a href="#">PHYS1157</a>	ILS for PHYS1155	1	<a href="#">ME2340</a>	Material Science	4				
	<a href="#">ME2355</a>	Mech. of Materials	4	<a href="#">ME2341</a>	Lab for ME2340	1				
	<a href="#">ME2356</a>	Lab for ME2355	1	<a href="#">MEIE2000</a>	Intro to Eng'g, Co-op	1				
	Elective	General Elective	4	Elective	General Elective	4			Co-op	
Year 2 (MD)	<a href="#">MATH2341</a>	Diff. Eq./ Lin. Alg.	4					<a href="#">ME3475</a>	Fluid Mech.	4
	<a href="#">PHYS1155</a>	Physics 2 for Engrs.	3					Elective	General Elective	4
	<a href="#">PHYS1156</a>	Physics 2 Lab	1		Co-op					
	<a href="#">PHYS1157</a>	ILS for PHYS1155	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								
Year 3 (MC)	<a href="#">ENGW3302</a>	Adv Writing in the Tech Prof <i>(to be taken online)</i>	4	<a href="#">ME4505</a>	Meas. Anal. Thermal	4	<a href="#">ME4550</a>	ME Design	4	
				<a href="#">ME4506</a>	Lab for ME4505	1	<a href="#">MEIE4701</a>	Capstone Design	1	
				<a href="#">EECE2210</a>	Elect. Engineering	4	Elective	General Elective	4	
		Co-op		<a href="#">EECE2211</a>	Lab for EECE2210	1				
				<a href="#">ME4570</a>	Ther. Sys. Anal. Design	4				
				<a href="#">ME4555</a>	Syst. Analysis & Control	4				
				<a href="#">MEIE3000</a>	Prof. Issues In Eng'g,	1				
Year 3 (MD)	<a href="#">ME4505</a>	Meas. Anal. Thermal	4	<a href="#">ENGW3302</a>	Adv Writing in the Tech Prof <i>(to be taken online)</i>	4		Elective	General Elective	4
	<a href="#">ME4506</a>	Lab for ME4505	1					<a href="#">ME4550</a>	ME Design	4
	<a href="#">ME3455</a>	Dynamics & Vib.	4					<a href="#">MEIE4701</a>	Capstone 1	1
	<a href="#">ME3456</a>	Lab for ME3455	1		Co-op					
	<a href="#">ME4570</a>	Ther. Sys. Anal. Design	4							
	Elective	General Elective	4							
Year 4 (MC)		Co-op		<a href="#">ME4508</a>	ME Computation	4				
				Elective	**Science/Math Elective	4				
				<a href="#">MEIE4702</a>	Capstone Design 2	5				
				Elective	MIE Technical Elective	4				
Year 4 (MD)	<a href="#">EECE2210</a>	Elect. Engineering	4	<a href="#">ME4508</a>	ME Computation	4				
	<a href="#">EECE2211</a>	Lab for EECE2210	1	Elective	MIE Technical Elective	4				
	<a href="#">ME4555</a>	Syst. Analysis & Control	4	Elective	**Science/Math Elective	4				
	<a href="#">MEIE4702</a>	Capstone Design 2	5	<a href="#">ME2340</a>	Material Science	4				
	Elective	General Elective	4	<a href="#">ME2341</a>	Lab for ME2340	1				
	<a href="#">MEIE3000</a>	Prof. Issues in Eng'g,	1							

Revised 3/1/2018

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

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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.