

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING - 4 Year 2 Co-op Plan
CURRICULUM OUTLINE - CLASS OF 2020

Sample Only – Actual Curriculum Sequence May Deviate from Sample

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

Revised 3/2/2017

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 :

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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.