

**COMBINED MAJOR IN MECHANICAL ENGINEERING AND PHYSICS
BACHELOR OF SCIENCE CURRICULUM OUTLINE - CLASS OF 2023, 2024**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL		SPRING		SUMMER 1		SUMMER 2		
Year 1	MATH1341	Calculus 1 for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	Vacation	Vacation	
	CHEM1151	General Chem. for Engrs.	4	PHYS1165	Physics 2	4			
	CHEM1153	Recitation for CHEM1151	0	PHYS1166	Physics 2 Lab	1			
	PHYS1161	Physics 1	4	GE 1502	Cornerstone Eng. 2	4			
	PHYS1162	Physics 1 Lab	1	ENGW1111	College Writing	4			
	GE 1000	Intro to Eng'g	1						
	GE 1501	Cornerstone Eng. 1	4						
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	PHYS2303	Modern Physics	4	Vacation	Co-op	
	MATH2341	Diff. Eq./Lin. Alg.	4	MEIE2000	Intro to Eng'g., Coop	1			
	PHYS2371	Electronics	4	ME2340	Material Science	4			
	PHYS2372	Electronics Lab	0	ME2341	Lab for ME2340	1			
	ME2350	Statics	4	ME2355	Mech. of Materials	4			
				ME2356	Lab for ME2355	1			
				ME2380	Thermodynamics	4			
Year 3 AA		Co-op		PHYS3602	Elect. & Magnetism	4	ME3475	Fluid Mech.	4
				ME3455	Dynamics	4	PHYS3600	Adv. Physics Lab	4
				ME3456	Lab for ME3455	1			
				ME4508	ME Computation	4			
				*ENGW3302	Adv. Writ. in the Tech. Prof.	4			
Year 4 AA		Co-op		**PHYS3601	Classical Dynamics	4	ME4550	ME Design	4
				MEIE3000	Prof. Issues in Eng'g.	1	MEIE4701	Capstone Design	1
				ME4505	Meas. Analysis. Thermal	4		General Elective	4
				ME4506	Lab for ME4505	1			
				ME4555	Syst. Analysis & Control	4			
				ME4570	Thermal Sys. Analysis Design	4			
Year 5 AA		Co-op		MEIE4702	Capstone Design 2	5			
				PHYS5318	Principles of Exp. Physics	4			
				PHYS xxxx	Adv. Physics Elective	4			
					4				

Revised 5/24/2016

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

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.

**** PHYS 3601 Classical Dynamics** is offered fall and spring semesters of even years only. Please meet with academic advisor to discuss scheduling options for Year 4 of odd years.

Advanced physics electives: (PHYS 4606, PHYS 4621, PHYS 4623, PHYS 4651, PHYS 4652, PHYS 5111, PHYS 5113, PHYS 5114, PHYS 5116, PHYS 5260)

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

Academic Advisors:

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