

**COMBINED MAJOR IN MECHANICAL ENGINEERING AND PHYSICS  
BACHELOR OF SCIENCE CURRICULUM OUTLINE - CLASS OF 2022, 2023**

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

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

3/1/2018

\* [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 an 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
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