BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

COMBINED MAJOR - ELECTRICAL ENGINEERING AND PHYSICS

CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023

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	GE1502	Cornerstone of Engineering 2	4				
	PHYS1162	Physics 1 Lab	1	ENGW1111	College Writing	4				
	GE1000	Intro to Eng'g	1							
	GE1501	Cornerstone of Engineering 1	4							
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	PHYS2305	Therm & Stat. Mech.	4	Vacation			Co-op
	MATH2341	Diff. Eq./Lin. Alg.	4	EECE2000	Intro to Eng'g. Coop	1				
	PHYS2303	Modern Physics	4	EECE2160	Embedded Design: Enabling Robotic	4				
	EECE2150	Circuits/Signals: Biomed Apps	5	EECExxxx	EE Fundamentals	4/5				
				Elective	General Elective	4				
Year 3 AA	Co-op			PHYS3602	Elect. & Magnetism	4	Elective	General Elective	4	Co-op
				EECExxxx	EE Fundamentals	4/5	PHYS3600	Adv. Physics Lab	4	
				EECExxxx	CE Fundamentals	4/5				
				*ENGW3302	Adv. Writing for Prof.	4				
Year 4 AA	Co-op			PHYS5115	Quantum Mechanics	4	Elective	EECE Tech Elective 2	4	Co-op
				EECE3000	Prof. Issues in Eng'g.	1	EECE4790	Capstone 1	4	
				EECExxxx	EE Fundamentals	4/5				
				EECE3468	Noise & Stoch. Proc.	4				
				Elective	EECE Tech Elective 1	4				
Year 5 AA	Co-op			EECE4792	Capstone Design 2	4				
				PHYSxxxx	Adv. Physics Elective	4				
				Elective	General Elective	4				

Revised March/2018

The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)

* 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.

3 Required General Electives

3 Required EE Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab **AND** EECE2520 - Fundamentals Linear Systems **AND** EECE 2530/2531 - Fundamentals Electromagnetics & lab.

1 Required CE Fundamental: EECE2322/2323 - Fundamentals Digital Design & Lab **OR** EECE2540 - Fundamentals Networks **OR** EECE2560 - Fundamentals Algorithms

(CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective)

Technical Elective Requirements: 2 EECE technical electives

EECE2322, (EECE2540-EECE2750), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5515-EECE5698), GE4608, ENGR5670

Please check with your advisor when taking a general elective in overlapping disciplines:

Last Name A-L: Ellen Zierk- e.zierk@northeastern.edu

Last Name M-Z: Nicole Diamond - n.diamond@northeastern.edu

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