

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - 4 YEAR 2 COOP OPTION

CURRICULUM OUTLINE - CLASS OF 2020, 2021, 2022

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	Elective	General Elective	Vacation	
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3	Elective	General Elective		
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1				
	GE1000	Intro to Eng'g.	1	PHYS1153	ILS for PHYS1151	1				
	GE1501	Cornerstone of Engineering 1	4	GE1502	Cornerstone of Engineering 2	4				
	ENGW1111	College Writing	4	Elective	General Elective	4				
Year 2 MC	MATH2341	Diff. Eq./Lin. Alg.	4	MATH2321	Calculus 3 for Engrs.	4	Elective	General Elective	Co-op	
	PHYS1155	Physics 2 for Engrs.	3	ECE2000	Intro to Eng'g. Coop	1	Elective	General Elective		
	PHYS1156	Physics 2 Lab	1	ECE2160	Embedded Design: Enabling Robotic	4				
	PHYS1157	ILS for PHYS1155	1	EECExxxx	EE Fundamentals	4/5				
	ECE2150	Circuits/Signals: Biomed App	5	EECExxxx	EE Fundamentals	4/5				
Year 2 MD	MATH2341	Diff. Eq./Lin. Alg.	4	Co-op	Co-op	Co-op	Elective	General Elective	4	
	PHYS1155	Physics 2 for Engrs.	3				Elective	General Elective	4	
	PHYS1156	Physics 2 Lab	1							
	PHYS1157	ILS for PHYS1155	1							
	ECE2150	Circuits/Signals: Biomed App	5							
	ECE2000	Intro to Eng'g Coop	1							
Year 3 MC	ENGW3302	Adv Writing in the Tech Prof (to be taken online)	4	ECE3000	Prof. Issues in Eng'g.	1	ECE4790	Capstone 1	4	
	Co-op	EECExxxx	EE Fundamentals	4/5	Elective	EECE Tech Elective 2	4	Co-op		
		EECExxxx	CE Fundamentals	4/5						
		ECE3468	Noise & Stoch. Proc.	4						
		Elective	EECE Tech Elective 1	4						
Year 3 MD	MATH2321	Calculus 3 for Engrs.	4	ENGW3302	Adv Writing in the Tech Prof (to be taken online)	4	Co-op	Elective	EECE Tech Elective 1	4
	ECE2160	Embedded Design: Enabling Robotic	4	Co-op	Co-op	Co-op		ECE4790	Capstone 1	4
	EECExxxx	EE Fundamentals	4/5							
	EECExxxx	EE Fundamentals	4/5							
	ECE3000	Prof. Issues in Eng'g.	1							
Year 4 MC	Co-op	Co-op	Co-op	ECE4792	Capstone Design 2	4	Co-op	Co-op	Co-op	
				Elective	EECE Tech Elective 3	4				
				Elective	EECE Tech Elective 4	4				
				Elective	General Elective	4				
Year 4 MD	ECE4792	Capstone Design 2	4	Elective	EECE Tech Elective 2	4	Co-op	Co-op	Co-op	
	EECExxxx	EE Fundamentals	4/5	Elective	EECE Tech Elective 3	4				
	EECExxxx	CE Fundamentals	4/5	Elective	EECE Tech Elective 4	4				
	ECE3468	Noise & Stoch. Proc.	4	Elective	General Elective	4				

Revised March/2018

The Capstone Design Courses are taken as follows: (ECE4790 - Summer 1 and ECE4792 - Spring) OR (ECE4790 - Summer 2 and ECE4792 - Fall)

* [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.

7 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: 4 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.