

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - 4 YEAR 2 COOP OPTION
CURRICULUM OUTLINE - CLASS OF 2020, 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	Elective General Elective 4	Vacation
	CHEM1151 General Chem for Engrs. 4	PHYS1151 Physics 1 for 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		
	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 4	Co-op
	PHYS1155 Physics 2 for Engrs. 3	EECE2000 Intro to Eng'g. Coop 1	Elective General Elective 4	
	PHYS1156 Physics 2 Lab 1	EECE2160 Embedded Design: Enabling Roboti 4		
	PHYS1157 ILS for PHYS1155 1	EECExxxx EE Fundamentals 4/5		
	EECE2150 Circuits/Signals: Biomed App 5	EECExxxx EE Fundamentals 4/5		
	Elective General Elective 4			
Year 2 MD	MATH2341 Diff. Eq./Lin. Alg. 4	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			
	EECE2150 Circuits/Signals: Biomed App 5			
	EECE2000 Intro to Eng'g Coop 1			
Year 3 MC	ENGW3302 Adv Writing in the Tech Prof (to be taken online) 4	EECE3000 Prof. Issues in Eng'g. 1	EECE4790 Capstone 1 4	Co-op
	Co-op	EECExxxx EE Fundamentals 4/5	Elective EECE Tech Elective 2 4	
		EECExxxx CE Fundamentals 4/5		
		EECE3468 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
	EECE2160 Embedded Design: Enabling Roboti 4	Co-op	EECE4790 Capstone 1 4	
	EECExxxx EE Fundamentals 4/5			
	EECExxxx EE Fundamentals 4/5			
	EECE3000 Prof. Issues in Eng'g. 1			
Year 4 MC	Co-op		EECE4792 Capstone Design 2 4	
		Elective EECE Tech Elective 3 4		
		Elective EECE Tech Elective 4 4		
		Elective General Elective 4		
Year 4 MD	EECE4792 Capstone Design 2 4	Elective EECE Tech Elective 2 4		
	EECExxxx EE Fundamentals 4/5	Elective EECE Tech Elective 3 4		
	EECExxxx CE Fundamentals 4/5	Elective EECE Tech Elective 4 4		
	EECE3468 Noise & Stoch. Proc. 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 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:

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Last Name J-L: Krystal Ristaino - k.ristaino@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.