

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

### CURRICULUM OUTLINE - CLASS OF 2021, 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="#">CHEM1151</a> General Chem for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE1000</a> Intro to Eng'g. 1 <a href="#">GE1501</a> Cornerstone of Engineering 1 4 <a href="#">ENGW1111</a> College Writing 4		<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE1502</a> Cornerstone of Engineering 2 4 Elective General Elective 4		Vacation		Vacation	
Year 2 AA	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">EECE2150</a> Circuits/Signals: Biomed Apps. 5 Elective General Elective 4		<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1 <a href="#">EECE2160</a> Embedded Design: Enabling Robotic 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4		Vacation		Co-op	
Year 2 BB	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">EECE2150</a> Circuits/Signals: Biomed Apps. 5 Elective General Elective 4 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1		Co-op		Co-op		Vacation	
Year 3 AA	Co-op		EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 Elective General Elective 4		Elective General Elective 4 <a href="#">*ENGW3302</a> Adv. Writing Prof. 4	Co-op		
Year 3 BB	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">EECE2160</a> Embedded Design: Enabling Robotic 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4		Co-op		Co-op		<a href="#">*ENGW3302</a> Adv. Writing Prof. 4 Elective General Elective 4	
Year 4 AA	Co-op		<a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 1 4 Elective General Elective 4 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4 Elective General Elective 4		<a href="#">EECE4790</a> Capstone 1 4 Elective EECE Tech Elective 2 4	Co-op		
Year 4 BB	<a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 Elective General Elective 4 EECExxxx CE Fundamentals 4/5		Co-op		Co-op		Elective EECE Tech Elective 1 4 <a href="#">EECE4790</a> Capstone 1 4	
Year 5 AA	Co-op		<a href="#">EECE4792</a> Capstone Design 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4					
Year 5 BB	<a href="#">EECE4792</a> Capstone Design 2 4 Elective EECE Tech Elective 2 4 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4 Elective General Elective 4		Elective General Elective 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4					

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

Revised March/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.

#### 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 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.