

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING OR BACHELOR OF SCIENCE IN COMPUTER ENGINEERING**  
**COMBINED MAJOR - ELECTRICAL AND COMPUTER ENGINEERING**  
**CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	<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="#">ENGGW1111</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
<b>Year 2 AA</b>	<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 *EECE21x0 EECE2150 OR EECE2160 4/5 Elective General Elective 4	<a href="#">CS1800</a> Discrete Structures 4 <a href="#">CS1802</a> Recitation for CS1800 1 <a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1 *EECE21x0 EECE2150 OR EECE2160 4/5 EECExxxx EE or CE Fundamentals 4/5	Vacation	Co-op
<b>Year 2 BB</b>	<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 *EECE21x0 EECE2150 OR EECE2160 4/5 Elective General Elective 4 <a href="#">EECE2000</a> Eng'g. Coop Ed. 1	Co-op	Co-op	Vacation
<b>Year 3 AA</b>	Co-op	EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5	Elective General Elective 4 <a href="#">*ENGGW3302</a> Adv. Writing for Prof. 4	Co-op
<b>Year 3 BB</b>	<a href="#">CS1800</a> Discrete Structures 4 <a href="#">CS1802</a> Recitation for CS1800 1 <a href="#">MATH2321</a> Calculus 3 for Engrs. 4 *EECE21x0 EECE2150 OR EECE2160 4/5 EECExxxx EE or CE Fundamentals 4/5	Co-op	Co-op	Elective General Elective 4 <a href="#">*ENGGW3302</a> Adv. Writing for Prof. 4
<b>Year 4 AA</b>	Co-op	<a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 EECExxxx EE or CE Fundamentals 4/5 Elective EECE Tech Elective 1 4 Elective EECE Tech Elective 2 4 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4	<a href="#">EECE4790</a> Capstone 1 4 Elective EECE Tech Elective 3 4	Co-op
<b>Year 4 BB</b>	EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 <a href="#">EECE3000</a> Prof. Issues in Eng'g. 1	Co-op	Co-op	Elective EECE Tech Elect. 1 4 <a href="#">EECE4790</a> Capstone 1 4
<b>Year 5 AA</b>	Co-op	<a href="#">EECE4792</a> Capstone Design 2 4 Elective EECE Tech Elective 4 4 Elective General Elective 4 4		
<b>Year 5 BB</b>	<a href="#">EECE4792</a> Capstone Design 2 4 EECExxxx EE or CE Fundamentals 4/5 Elective EECE Tech Elective 2 4 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4	Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Elective General Elective 4 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)

[\\* ENGGW3315](#) 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.

**4 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.

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

**Technical Elective Requirements:** 4 EECE technical electives:

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

**2 CS courses from the following approved list may be taken toward the EECE technical elective requirement:**

Approved List: CY2550, (CS3200-CS3500), (CS3540-CS3800), (CS4100-CY4770), CS4850, (IS4200- IS4700)

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.