

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING  
 MASTER OF SCIENCE ENGINEERING MANAGEMENT  
 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> Physic 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 Roboti 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4	Elective General Elective 4 Elective General Elective 4	Co-op
Year 2 BB	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">PHYS1155</a> Physic 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 <a href="#">EECE2160</a> Embedded Design: Enabling Roboti 4 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1	Co-op	Co-op	Elective General Elective 4 Elective General Elective 4
Year 3 AA	Co-op	EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4	Elective EECE Tech Elective 1 4 * <a href="#">ENGW3302</a> Adv. Writing Prof. 4	Co-op
Year 3 BB	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5	Co-op	Co-op	Elective EECE Tech Elective 1 4 Elective General Elective 4
Year 4 YB	Co-op	<a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 2 4 EMGT5220 Engineering Project Mgmt 4 EMGT6225 Economic Decision Making 4 IEG200 Eng'g Prob. & Statistics 4	<a href="#">EECE4790</a> Capstone 1 4 Elective EECE Tech Elective 3 4	Vacation
Year 4 ZH	<a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 EECExxxx EE Fundamentals 4/5 <a href="#">EECE3468</a> Noise & Stoch. Proc. 4 IEG200 Eng'g Prob. & Statistics 4 OR6205 Deterministic Op Research 4	Elective EECE Tech Elective 2 4 Elective EECE Tech Elective 3 4 EMGT5220 Engineering Project Mgmt 4 EMGT6225 Economic Decision Making 4	<a href="#">EECE4790</a> Capstone 1 4 <a href="#">Elective</a> EECE Tech Elective 4 4	Vacation
Year 5 YB	Elective Technical Elective 4 OR6205 Deterministic Op Research 4 Graduate Elective 4 Graduate Elective 4	<a href="#">EECE4792</a> Capstone Design 2 4 Graduate Elective 4 Graduate Elective 4		
Year 5 ZH	Elective General Elective Graduate Elective Graduate Elective ENGW3302 Adv. Writing for Prof. 4	EECE4792 Capstone Design 2 4 Graduate Elective 4 Graduate 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.

**7 Required General Electives (A maximum of 2 Graduate Courses can be used to fulfill this requirement)**

**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.

Requirements:

**4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.**

Students will be required to meet with an undergraduate advisor and a graduate advisor to petition to enter the program.

BS/MSECE program is 9.5 semesters of coursework.

Notes:

Students who opt out of the MSECE part of the program will still need to complete the Spring semester of the fifth year to finish the capstone design project.

Students are encouraged to meet with their financial aid counselor and a customer service representative to review any financial questions.