

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**  
**MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING**  
**BS/MS 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="#">MATH1342</a>	Calculus 2 for Engrs.	4	Vacation	Vacation	
	<a href="#">CHEM1151</a>	General Chem for Engrs.	4	<a href="#">PHYS1151</a>	Physics 1 for Engrs.	3			
	<a href="#">CHEM1153</a>	Recitation for CHEM1151	0	<a href="#">PHYS1152</a>	Physics 1 Lab	1			
	<a href="#">GE1000</a>	Intro to Eng'g	1	<a href="#">PHYS1153</a>	ILS for PHYS1151	1			
	<a href="#">GE1501</a>	Cornerstone of Engineering 1	4	<a href="#">GE1502</a>	Cornerstone of Engineering 2	4			
	<a href="#">ENGW1111</a>	College Writing	4	Elective	General Elective #1	4			
Year 2 AA Plan 1	<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	Elective	EECE Tech Elective 1	4
	<a href="#">PHYS1155</a>	Physics 2 for Engrs.	3	EECExxxx	EE Fundamentals	4/5	Elective	General Elective 2	4
	<a href="#">PHYS1156</a>	Physics 2 Lab	1	EECExxxx	EE Fundamentals	4/5	Co-op		
	<a href="#">PHYS1157</a>	ILS for PHYS1155	1	EECExxxx	CE Fundamentals	4/5			
	<a href="#">EECE2150</a>	Circuits/Signals:Biomed Apps.	5	<a href="#">EECE2000</a>	Intro to Eng'g. Coop	1			
	<a href="#">EECE2160</a>	Embedded Design Enabling Robotics	4						
Year 2 BB Plan 2	<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4	Co-op	Co-op	Co-op	Elective	General Elective 2	4
	<a href="#">PHYS1155</a>	Physics 2 for Engrs.	3				Elective	General Elective 3	4
	<a href="#">PHYS1156</a>	Physics 2 Lab	1						
	<a href="#">PHYS1157</a>	ILS for PHYS1155	1						
	<a href="#">EECE2150</a>	Circuits/Signals: Biomed App	5						
	<a href="#">EECE2000</a>	Intro to Eng'g. Coop	1						
Year 3 AA Plan 1	Coop			<a href="#">EECE3000</a>	Prof. Issues in Eng'g.	1	Elective	General Elective 3	4
		EECExxxx	EE Fundamentals	4	Elective	General Elective 4	4		
		<a href="#">EECE3468</a>	Noise and Stoch Proc.	4					
		EECExxxx	Graduate Course	4					
		EECExxxx	Graduate Course	4					
Year 3 BB Plan 2	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	Co-op	Co-op	Co-op	Elective	EECE Tech Elective 1	4
	EECExxxx	EE Fundamentals	4/5				Elective	General Elective 4	4
	EECExxxx	EE Fundamentals	4/5						
	EECExxxx	CE Fundamentals	4/5						
Year 4 AA (to BB) Plan 1	Elective	EECE Tech Elective 2	4	Co-op	Co-op	Co-op	<a href="#">EECE4790</a>	Capstone Design 1	4
	EECExxxx	Graduate Course	4				Elective	EECE Tech Elective 3	4
	EECExxxx	Graduate Course	4						
	<a href="#">*ENGW3302</a>	Adv. Writing for Prof.	4						
Year 4 BB (to ZH) Plan 2	<a href="#">EECE3000</a>	Prof. Issues in Eng'g.	1	Elective	EECE Tech Elective 2	4	<a href="#">EECE4790</a>	Capstone Design 1	4
	EECExxxx	EE Fundamentals	4	Elective	EECE Tech Elective 3	4	Elective	EECE Tech Elective 4	4
	<a href="#">EECE3468</a>	Noise and Stoch Proc.	4	EECExxxx	Graduate Course	4	Vacation		
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4			
	EECExxxx	Graduate Course	4						
EECExxxx	Graduate Course	4							
Year 5 AA (to BB) Plan 1	<a href="#">EECE4792</a>	Capstone Design 2	4	EECExxxx	Graduate Course	4			
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4			
	EECExxxx	Graduate Course	4	Elective	EECE Tech Elective 4	4			
	Elective	General Elective 5	4						
Year 5 ZH Plan 2	Elective	General Elective 5	4	<a href="#">EECE4792</a>	Capstone Design 2	4			
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4			
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4			
	<a href="#">*ENGW3302</a>	Adv. Writing for Prof.	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 CE Fundamentals: EECE2322/2323: Fundamentals Digital Design & Lab AND EECE2540 - Fundamentals Networks AND EECE2560 - Fundamentals Algorithms

1 Required EE Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab OR EECE2520 - Fundamentals Linear Systems OR EECE 2530/2531 - Fundamentals Electromagnetics & lab (EE 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:

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

Students are encouraged to meet with their financial aid counselor to review any financial questions.

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