

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING
BS/MS CURRICULUM OUTLINE - CLASS OF 2018, 2019, 2020
Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL		SPRING		SUMMER 1	SUMMER 2		
Freshman Year 1	MATH1341	Calculus 1 for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	Vacation	Vacation
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3		
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1		
	GE1000	Intro to Eng'g	1	PHYS1153	ILS for PHYS1151	1		
	GE1110	Eng'g. Design	4	GE1111	Eng'g. Prob. Solv. & Comp.	4		
	NU Core	Arts Lvl. 1 OR Hum. Lvl. 1	4	ENGW1111	College Writing	4		
Year 2 BB	MATH2341	Diff. Eq./Lin. Alg.	4	Co-op	Co-op	NU Core Elective	Social Science Lvl. 1	4
	PHYS1155	Physics 2 for Engrs.	3				General Elective 1	4
	PHYS1156	Physics 2 Lab	1					
	PHYS1157	ILS for PHYS1155	1					
	EECE2150	Circuits/Signals: Biomed App	4					
	EECE2151	Lab for EECE2150	1					
	EECE2000	Intro to Eng'g. Coop	1					
	EECE2160	Embedded Design: Enabling Robotic	3					
	EECE2161	Lab for EECE2160	1					
Year 3 BB	MATH2321	Calculus 3 for Engrs.	4	Co-op	Co-op	Elective Elective	EECE Tech Elective 1	4
	EECExxxx	EE Fundamentals	4/5				General Elective 2	4
	EECExxxx	EE Fundamentals	4/5					
	EECExxxx	CE Fundamentals	4/5					
Year 4 ZH	EECE3000	Prof. Issues in Eng'g.	1	Elective	EECE Tech Elective 2	4	Vacation	
	EECExxxx	EE Fundamentals	4	Elective	EECE Tech Elective 3	4		
	EECE3468	Noise and Stoch Proc.	4	EECExxxx	Graduate Course	4		
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4		
	EECExxxx	Graduate Course	4	EECE4790	Capstone Design 1	4		
Year 5 ZH	Elective	General Elective 3	4	EECE4792	Capstone Design 2	4		
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4		
	EECExxxx	Graduate Course	4	EECExxxx	Graduate Course	4		
	*ENGW3302	Adv. Writing for Prof.	4					

Revised 03/14/2017

[* ENGW3315](#) is an acceptable substitution for engineering majors.

English course prefixes have changed from ENGL to ENGW. ENGW1111 is equivalent to ENGL1111. ENGW3302 is equivalent to ENGL3302. Effective Fall 2014, the ENGW 3301 course number will be retired. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENGW 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

****Effective Summer 1, 2017: EECE2150 & EECE2151 = EECE2150 and EECE2160 & 2161 = EECE2160 . The labs are no longer offered as separate course numbers.**

NU Core Elective Requirements: 2 required: (one Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl 1)

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

Technical Elective Requirements: 4 EECE technical electives. (EECE3324-EECE3392), (EECE4512-EECE4534), (EECE4574-EECE4698), EECE4993, (EECE5576-EECE5698), ENGR4608, ENGR5670

CE Fundamentals not taken to meet the requirement may be taken as technical electives.

General Elective Requirements: 3 required - Any 4 SH course that is not remedial or repetitive.

Note: MATH1215, CS1100 will not count toward general elective requirements. Please check with your advisor when taking a general elective in overlapping disciplines.

Please check with your advisor when taking a general elective in overlapping disciplines:

Class of 2018: Ellen Zierk - e.zierk@northeastern.edu

Classes of 2019 & 2020:

Last Name A-L: Ellen Zierk- e.zierk@northeastern.edu

Last Name M-Z: Emily Ferraro- e.ferraro@northeastern.edu

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

NOTES:

Students interested in following for the BS/MS program should plan on following the BB pattern of attendance

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.

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

BS/MSECE program is 9.5 semesters of coursework.

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.