

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING
BS/MS CURRICULUM OUTLINE - CLASS OF 2019, 2020

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL		SPRING		SUMMER 1		SUMMER 2	
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 AA Plan 1	MATH2341	Diff. Eq./Lin. Alg. 4	MATH2321	Calculus 3 for Engrs. 4	Elective	EECE Tech Elective 1 4	Co-op	
	PHYS1155	Physics 2 for Engrs. 3	EECExxxx	EE Fundamentals 4/5	NU Core	Social Science Lvl. 1 4		
	PHYS1156	Physics 2 Lab 1	EECExxxx	EE Fundamentals 4/5				
	PHYS1157	ILS for PHYS1155 1	EECExxxx	CE Fundamentals 4/5				
	EECE2150	Circuits/Signals:Biomed Apps. 5	EECE2000	Intro to Eng'g. Coop 1				
	EECE2160	Embedded Design Enabling Robotics 4						
Year 2 BB Plan 2	MATH2341	Diff. Eq./Lin. Alg. 4	Co-op	Co-op	Co-op	Co-op	NU Core	Social Science Lvl. 1 4
	PHYS1155	Physics 2 for Engrs. 3					Elective	General Elective 1 4
	PHYS1156	Physics 2 Lab 1					Elective	General Elective 2 4
	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 AA Plan 1	Co-op		EECE3000	Prof. Issues in Eng'g. 1	Elective	General Elective 1 4	Vacation	
			EECExxxx	EE Fundamentals 4	Elective	General Elective 2 4		
			EECE3468	Noise and Stoch Proc. 4				
			EECExxxx	Graduate Course 4				
			EECExxxx	Graduate Course 4				
Year 3 BB Plan 2	MATH2321	Calculus 3 for Engrs. 4	Co-op	Co-op	Co-op	Co-op	Elective	EECE Tech Elective 1 4
	EECExxxx	EE Fundamentals 4/5					Elective	General Elective 2 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	Co-op	EECE4790	Capstone Design 1 4
	EECExxxx	Graduate Course 4					Elective	EECE Tech Elective 3 4
	EECExxxx	Graduate Course 4						
	*ENGW3302	Adv. Writing for Prof. 4						
Year 4 BB (to ZH) Plan 2	EECE3000	Prof. Issues in Eng'g. 1	Elective	EECE Tech Elective 2 4	EECE4790	Capstone Design 1 4	Vacation	
	EECExxxx	EE Fundamentals 4	Elective	EECE Tech Elective 3 4	Elective	EECE Tech Elective 4 4		
	EECE3468	Noise and Stoch Proc. 4	EECExxxx	Graduate Course 4				
	EECExxxx	Graduate Course 4	EECExxxx	Graduate Course 4				
	EECExxxx	Graduate Course 4						
Year 5 AA (to BB) Plan 1	EECE4792	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 3 4						
Year 5 ZH Plan 2	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 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.

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

5 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

Technical Elective Requirements: 4 EECE technical electives

EECE2322, (EECE2540-EECE2750), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5515-EECE5698), GE4608, ENGR5670

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

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.

NOTES:

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.

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.