

BACHELOR OF SCIENCE IN COMPUTER 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
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1110 Eng'g. Design 4 NU Core Arts Lvl. 1 OR Hum. Lvl. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1111 Eng'g. Prob. Solv. & Comp. 4 ENGW1111 College Writing 4	Vacation	Vacation
Year 2 BB	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2150 Circuits/Signals:Biomed Apps. 4 EECE2151 Lab for EECE2150 1 EECE2000 Intro to Eng'g. Coop 1 EECE2160 Embedded Design Enabling Roboti 3 EECE2161 Lab for EECE2160 1	Co-op	Co-op	NU Core Social Science Lvl. 1 4 Elective General Elective 1 4
Year 3 BB	CS1800 Discrete Structures 4 CS1801 Recitation for CS1800 0 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5	Co-op	Co-op	MATH3081 Probability & Stats. 4 Elective General Elective 2 4
Year 4 ZH	EECE3000 Prof. Issues in Eng'g. 1 EECExxxx CE Fundamentals 4 Elective EECE Tech Elective 1 4 EECExxxx Graduate Course 4 EECExxxx Graduate Course 4	Elective EECE Tech Elective 2 4 EECExxxx Graduate Course 4 EECExxxx Graduate Course 4 * ENGW3302 Adv. Writing for Prof. 4	EECE4790 Capstone Design 1 4 Elective EECE Tech Elective 3 4	Vacation
Year 5 ZH	Elective EECE Tech Elective 4 4 EECExxxx Graduate Course 4 EECExxxx Graduate Course 4 Elective General Elective 3 4	EECE4792 Capstone Design 2 4 EECExxxx Graduate Course 4 EECExxxx Graduate Course 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 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. (EECE3392-EECE4626), (EECE4630-EECE4698), EECE4993, (EECE5576-EECE5698), ENGR4608, ENGR5670
 2 CS courses from the following approved list may be taken toward the EECE technical elective requirement:

Approved List: CS3200, CS3500, CS3540, (CS3700-CS3800), (CS4100-4650), (CS4740-CS4850), (CS5010-CS5610), (CS5650-CS5850), IS4200, IS4300, IS4700

General Elective Requirements: 3 required - Any 4 SH course that is not remedial or repetitive. Please see you advisor if you have any questions.

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.