

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
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 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 AA	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2160 Embedded Design: Enabling Robotics 3 EECE2161 Lab for EECE2160 1 NU Core Social Science Lvl. 1 4	CS1800 Discrete Structures 4 CS1801 Recitation for CS1800 0 EECE2000 Intro to Eng'g Coop 1 EECE2150 Circuits/Signals: Biomed Apps 4 EECE2151 Lab for EECE2150 1 EECExxxx CE Fundamentals 4/5 Elective General Elective 1 4	Vacation	Co-op
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 EECE2160 Embedded Design: Enabling Robotics 3 EECE2161 Lab for EECE2160 1 EECE2000 Intro to Eng'g. Coop 1 NU Core Social Science Lvl. 1 4	Co-op	Co-op	Vacation
Year 3 AA	Co-op	EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 Elective General Elective 2 4	*ENGW3302 Adv. Writing for Prof. 4 Elective General Elective 3 4	Co-op
Year 3 BB	CS1800 Discrete Structures 4 CS1801 Recitation for CS1800 0 EECE2150 Circuits/Signals: Biomed Apps 4 EECE2151 Lab for EECE2150 1 EECExxxx CE Fundamentals 4/5 Elective General Elective 1 4	Co-op	Co-op	*ENGW3302 Adv. Writing for Prof. 4 Elective General Elective 2 4
Year 4 AA	Co-op	MATH3081 Probability 4 EECE3000 Prof. Issues in Eng'g 1 Elective EECE Tech Elective 1 4 Elective EECE Tech Elective 2 4 Elective General Elective 4 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 3 4	Co-op
Year 4 BB	EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 Elective General Elective 3 4 EECE3000 Prof. Issues in Eng'g. 1	Co-op	Co-op	EECE4790 Capstone 1 4 Elective EECE Tech Elective 1 4
Year 5 AA	Co-op	EECE4792 Capstone Design 2 4 Elective EECE Technical Elective 4 4 Elective General Elective 5 4		
Year 5 BB	EECE4792 Capstone Design 2 4 MATH3081 Probability 4 EECExxxx EECE Tech Elective 2 4 Elective General Elective 4 4	Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Elective General Elective 5 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 (any 4SH academic course that is not remedial or repetitive)

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:

(EECE2412-2530), EECE2750, EECE3154, (EECE3324-EECE3468), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5155-EECE5698), ENGR5670, GE4608

2 CS courses from the following approved list may be taken toward the EECE technical elective requirement:

Approved List: CS2550, (CS3200-CS3500), (CS3540-CS3800), (CS4100-CS4770), CS4850, (IS4200- IS4700)

Note: AP credit for MATH2280 will substitute for MATH3081 requirement.

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.