

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING OR BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
COMBINED MAJOR, ELECTRICAL AND 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 *EECE21x0 EECE2150 OR EECE2160 4/5 *EECE21x1 EECE2151 OR EECE2161 1 NU Core Social Science Level 1 4 | CS1800 Discrete Structures 4 CS1801 Recitation for CS1800 0 MATH2321 Calculus 3 for Engrs. 4 EECE2000 Intro to Eng'g. Coop 1 *EECE21x0 EECE2150 OR EECE2160 4/5 *EECE21x1 EECE2151 OR EECE2161 1 EECExxxx EE or CE Fundamentals 4/5 | 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 *EECE21x0 EECE2150 OR EECE2160 4/5 *EECE21x1 EECE2151 OR EECE2161 1 NU Core Social Science Level 1 4 EECE2000 Eng'g. Coop Ed. 1 | Co-op | Co-op | Vacation |
| Year 3 AA | Co-op | EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 | Elective General Elective 1 4 * ENGW3302 Adv. Writing for Prof. 4 | Co-op |
| Year 3 BB | CS1800 Discrete Structures 4 CS1801 Recitation for CS1800 0 MATH2321 Calculus 3 for Engrs. 4 *EECE21x0 EECE2150 OR EECE2160 4/5 *EECE21x1 EECE2151 OR EECE2161 1 EECExxxx EE or CE Fundamentals 4/5 | Co-op | Co-op | Elective General Elective 1 4 * ENGW3302 Adv. Writing for Prof. 4 |
| Year 4 AA | Co-op | EECE3000 Prof. Issues in Eng'g. 1 EECExxxx EE or CE Fundamentals 4/5 Elective EECE Tech Elective 1 4 Elective EECE Tech Elective 2 4 EECE3468 Noise & Stoch. Proc. 4 | EECE4790 Capstone 1 4 Elective EECE Tech Elective 3 4 | Co-op |
| Year 4 BB | EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECExxxx EE or CE Fundamentals 4/5 EECE3000 Prof. Issues in Eng'g. 1 | Co-op | Co-op | Elective EECE Tech Elect. 1 4 EECE4790 Capstone 1 4 |
| Year 5 AA | Co-op | EECE4792 Capstone Design 2 4 Elective EECE Tech Elective 4 4 Elective General Elective 2 4 | | |
| Year 5 BB | EECE4792 Capstone Design 2 4 EECExxxx EE or CE Fundamentals 4/5 Elective EECE Tech Elective 2 4 EECE3468 Noise & Stoch. Proc. 4 | Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Elective General Elective 2 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)

2 Required General Electives (any 4SH academic course that is not remedial or repetitive)

3 Required EE Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab **AND** EECE2520 - Fundamentals Linear Systems **AND** EECE 2530/2531 - Fundamentals Electromagnetics & lab

3 Required CE Fundamental: EECE2322/2323 - Fundamentals Digital Design & Lab **AND** EECE2540 - Fundamentals Networks **AND** EECE2560 - Fundamentals Algorithms

Technical Elective Requirements: 4 EECE technical electives:

EECE2750, EECE3154, (EECE3324-EECE3410), (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: CY2550, (CS3200-CS3500), (CS3540-CS3800), (CS4100-CY4770), CS4850, (IS4200- IS4700)

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

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Last Name J-L: Krystal Ristaino - k.ristaino@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.