

PLUS ONE CURRICULUM OUTLINE

Sample Only – Actual Curriculum Sequence May Deviate from Sample

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING - 4 YEAR 2 COOP OPTION - CLASS OF 2021

	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 GE1501 Cornerstone of Engineering 1 4 ENGW1111 College Writing 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1502 Cornerstone of Engineering 2 4 Elective General Elective #1 4	Elective General Elective #2 4 Elective General Elective #3 4	Vacation
Year 2 MC	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 4 Elective General Elective #4 4	CS1800 Discrete Structures 4 *CS1802 Seminar for CS1800 1 EECE2000 Intro to Eng'g. Coop 1 EECE2150 Circuits/Signals: Biomed Apps. 5 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5	MATH3081 Prob & Statistics 4 Elective General Elective #5 4	Co-op
Year 2 MD	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 4 EECE2000 Intro to Eng'g. Coop 1 Elective General Elective #4 4	Co-op	Co-op	MATH3081 Prob & Statistics 4 Elective General Elective #5 4
Year 3 MC	ENGW3302 Adv Writing in the Tech Prof (to be taken online) 4 Co-op	EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECE3000 Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 1 4 EMGT5220 Engineering Project Management 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 2 4	Co-op
Year 3 MD	CS1800 Discrete Structures 4 *CS1802 Seminar for CS1800 1 EECE2150 Circuits/Signals: Biomed Apps. 5 EECExxxx CE Fundamentals 4/5 EECE3000 Prof. Issues in Eng'g 1 EECExxxx CE Fundamentals 4/5	ENGW3302 Adv Writing in the Tech Prof (to be taken online) 4 Co-op	Co-op	EECE4790 Capstone 1 4 Elective EECE Tech Elective 1 4
Year 4 MC	Co-op	EECE4792 Capstone Design 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 EMGT6225 Economic Decision Making 4		
Year 4 MD	EECE4792 Capstone Design 2 4 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EMGT5220 Engineering Project Management 4	Elective EECE Tech Elective 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 EMGT6225 Economic Decision Making 4		

Revised 12/6/17

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

* [CS1802](#) effective fall 2017: both CS1801 and CS1802 will fulfill the necessary CS1800 recitation requirement for engineering majors.

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

NUpath Requirements through General Electives- NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

5 Required General Electives

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), EECE4993, (EECE5576-EECE5698), GE4608, ENGR5670

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

Approved List: CS3200, CS3500, (CS3540-CS3800), (CS4100-CS4650), (CS4740-4850)(CS5010-CS5610), (CS5650-CS5850), (IS4200- IS4700)

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

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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.

MASTER OF SCIENCE IN ENGINEERING MANAGEMENT CURRICULUM

	FALL	SPRING
PlusOne Year	IE6200 Engr. Probability & Statistics 4 OR6205 Deterministic Op Research 4 Graduate Course #5 4	Graduate Course #6 4 Graduate Course #7 4 Graduate Course #8 4

For more information about the PlusOne program or for assistance with applying to the program, please contact the Graduate Student Services Team at support@husky.desk-mail.com.