BACHELOR OF SCIENCE IN COMPUTER ENGINEERING - 4 YEAR 2 COOP OPTION
CURRICULUM OUTLINE - CLASS OF 2019
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				
	CHEM1151 General Chem for Engrs.	4	PHYS1151 Physics 1 for Engrs.	3	Vacation		Vacation	
	CHEM1153 Recitation for CHEM1151	0	PHYS1152 Physics 2 Lab	1				
	GE1000 Intro to Eng'g.	1	PHYS1153 ILS for PHYS1151	1				
	GE1110 Eng'g. Design	4	GE1111 Eng'g Probl. Solv. & Comp.	4				
	NU Core Arts Lvl 1 OR Hum. Lvl. 1	4	ENGW1111 College Writing	4				
Year 2 MC	MATH2341 Diff. Eq./Lin.Alg.	4	CS1800 Discrete Structures	4	MATH3081 Prob & Statistics	4		
	PHYS1155 Physics 2 for Engrs.	3	CS1801 Recitation for CS1800	0	Elective General Elective 1	4		
	PHYS1156 Physics 2 Lab	1	EECE2000 Intro to Eng'g. Coop	1			Co-op	
	PHYS1157 ILS for PHYS1155	1	EECE2150 Circuits/Signals: Biomed Apps.	4				
	EECE2160 Embedded Design: Enabling Robotics	3	EECE2151 Lab for EECE2150	1				
	EECE2161 Lab for EECE2160	1	EECExxxx CE Fundamentals	4/5				
	NU Core Social Science Lvl. 1	4	EECExxxx CE Fundamentals	4/5				
Year 2 MD	MATH2341 Diff. Eq./Lin.Alg.	4					MATH3081 Prob & Statistics	4
	PHYS1155 Physics 2 for Engrs.	3					Elective General Elective 1	4
	PHYS1156 Physics 2 Lab	1	Co-op		Co-op			
	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						
Year 3 MC	Co-op		EECExxxx CE Fundamentals	4/5	EECE4790 Capstone 1	4	Co-op	
			EECExxxx EE Fundamentals	4/5	Elective EECE Tech Elective 2	4		
			EECE3000 Prof. Issues in Eng'g.	1				
			Elective General Elective 2	4				
			Elective EECE Tech Elective 1	4				
Year 3 MD	CS1800 Discrete Structures	4					EECE4790 Capstone 1	4
	CS1801 Recitation for CS1800	0					Elective EECE Tech Elective 1	4
	EECE2150 Circuits/Signals: Biomed Apps.	4	Co-op		Co-op			
	EECE2151 Lab for EECE2150	1						
	EECExxxx CE Fundamentals	4/5						
	EECE3000 Prof. Issues in Eng'g	1						
	Elective General Elective 2	4						
Year 4 MC	Co-op		EECE4792 Capstone Design 2	4	Must meet with academic advisor to determine scheduling of these courses:			
			Elective EECE Tech Elective 3	4				
			Elective EECE Tech Elective 4	4				
			Elective General Elective 3	4	Elective General Elective 4	4		
Year 4 MD	EECE4792 Capstone Design 2	4	Elective EECE Tech Elective 2	4	Elective General Elective 5	4		
	EECExxxx CE Fundamentals	4/5	Elective EECE Tech Elective 3	4	*ENGW3302 Adv. Writing for Prof.	4		
	EECExxxx CE Fundamentals	4/5	Elective EECE Tech Elective 4	4				
	EECExxxx EE Fundamentals	4/5	Elective General Elective 3	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)

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.