

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING - 4 YEAR 2 COOP OPTION

CURRICULUM OUTLINE - CLASS OF 2020, 2021, 2022, 2023

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	Elective	General Elective	Vacation		
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3	Elective	General Elective			
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1					
	GE1000	Intro to Eng'g.	1	PHYS1153	ILS for PHYS1151	1					
	GE1501	Cornerstone of Engineering 1	4	GE1502	Cornerstone of Engineering 2	4					
	ENGW1111	College Writing	4	Elective	General Elective	4					
Year 2 MC	MATH2341	Diff. Eq./Lin. Alg.	4	MATH2321	Calculus 3 for Engrs.	4	Elective	General Elective	Co-op		
	PHYS1155	Physics 2 for Engrs.	3	ENCP2000	Intro to Eng'g. Coop	1	Elective	General Elective			
	PHYS1156	Physics 2 Lab	1	EECE2160	Embedded Design: Enabling Robotic	4					
	PHYS1157	ILS for PHYS1155	1	EECExxxx	EE Fundamentals	4/5					
	EECE2150	Circuits/Signals: Biomed App	5	EECExxxx	EE Fundamentals	4/5					
	Elective	General Elective	4								
Year 2 MD	MATH2341	Diff. Eq./Lin. Alg.	4	Co-op	Co-op	Co-op	Co-op	Elective	General Elective	4	
	PHYS1155	Physics 2 for Engrs.	3					Elective	General Elective	4	
	PHYS1156	Physics 2 Lab	1								
	PHYS1157	ILS for PHYS1155	1								
	EECE2150	Circuits/Signals: Biomed App	5								
	ENCP2000	Intro to Eng'g. Coop	1								
	Elective	General Elective	4								
Year 3 MC	ENGW3302	Adv Writing in the Tech Prof (to be taken online)	4	ENCP3000	Prof. Issues in Eng'g.	1	EECE4790	Capstone 1	4	Co-op	
		Co-op		EECExxxx	EE Fundamentals	4/5	Elective	EECE Tech Elective 2	4		
				EECExxxx	CE Fundamentals	4/5					
				EECE3468	Noise & Stoch. Proc.	4					
				Elective	EECE Tech Elective 1	4					
Year 3 MD	MATH2321	Calculus 3 for Engrs.	4	ENGW3302	Adv Writing in the Tech Prof (to be taken online)	4	Co-op	Elective	EECE Tech Elective 1	4	
	EECE2160	Embedded Design: Enabling Robotic	4						EECE4790	Capstone 1	4
	EECExxxx	EE Fundamentals	4/5								
	EECExxxx	EE Fundamentals	4/5								
	ENCP3000	Prof. Issues in Eng'g.	1								
Year 4 MC	Co-op			EECE4792	Capstone Design 2	4	Co-op	Co-op	Co-op		
				Elective	EECE Tech Elective 3	4					
				Elective	EECE Tech Elective 4	4					
				Elective	General Elective	4					
Year 4 MD	EECE4792	Capstone Design 2	4	Elective	EECE Tech Elective 2	4	Co-op	Co-op	Co-op		
	EECExxxx	EE Fundamentals	4/5	Elective	EECE Tech Elective 3	4					
	EECExxxx	CE Fundamentals	4/5	Elective	EECE Tech Elective 4	4					
	EECE3468	Noise & Stoch. Proc.	4	Elective	General Elective	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.

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.

7 Required General Electives

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

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

(CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective)

Technical Elective Requirements: 4 EECE technical electives

EECE2322, (EECE2540-EECE2750), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

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

[Find your Academic Advisor](#)

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.