

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING OR BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
COMBINED MAJOR - ELECTRICAL AND COMPUTER ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2024**

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	MATH2341	Diff. Eq./Lin. Alg	4	Vacation		
	CHEM1151	General Chem. for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3	Elective	General Elective	4			
	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	4						
	ENGW1111	College Writing	4	Elective	General Elective	4						
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	CS1800	Discrete Structures	4	Vacation		Co-op			
	PHYS1155	Physics 2 for Engrs.	3	CS1802	Recitation for CS1800	1						
	PHYS1156	Physics 2 Lab	1	ENCP2000	Intro to Eng'g. Coop	1						
	PHYS1157	ILS for PHYS1155	1	EECE21x0	EECE2150 OR EECE2160	4/5						
	EECE21x0	EECE2150 OR EECE2160	4/5	EECExxxx	EE or CE Fundamentals	4/5						
	Elective	General Elective	4	Elective	General Elective	4						
Year 3 AA	* ENGW3302	Adv Writing in the Tech Prof <i>(to be taken online)</i>	4	EECExxxx	EE or CE Fundamentals	4/5	EECE4790	Capstone 1	4	Vacation		
		Co-op		EECExxxx	EE or CE Fundamentals	4/5	Elective	EECE Tech Elective	1			4
				EECExxxx	EE or CE Fundamentals	4/5						
				ENCP3000	Prof. Issues in Eng'g.	1						
Year 4 AA	EECE3468	Noise & Stoch. Proc.	4	EECE4792	Capstone Design 2	4						
	EECExxxx	EE or CE Fundamentals	4/5	Elective	EECE Tech Elective	3						
	EECExxxx	EE or CE Fundamentals	4/5	Elective	EECE Tech Elective	4						
	Elective	EECE Tech Elective	2	4								

Revised May/2020

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, **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.

4 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.

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), (EECE5115-EECE5698), GE4608, ENGR5670

2 CS/CY/IS 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 speak with your academic advisor regarding possibilities of a second co-op, Dialogues of Civilization courses, and study abroad.

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.