BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
COMBINED MAJOR - ELECTRICAL ENGINEERING AND PHYSICS
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			
	CHEM1151	General Chem. for Engrs.	4	*PHYS1165	Physics 2	4	Elective	General Elective	4			
	CHEM1153	Recitation for CHEM1151	0	*PHYS1166	Physics 2 Lab	1					Vacation	
	*PHYS1161	Physics 1	4	*PHYS1167	Recitation for PHYS1167	0						
	*PHYS1162	Physics 1 Lab	1	GE1502	Cornerstone of Engineering 2	4						
	*PHYS1163	Recitation for PHYS1161	0	ENGW1111	College Writing	4						
	GE1000	Intro to Eng'g	1									
	GE1501	Cornerstone of Engineering 1	4									
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	PHYS4305	Therm & Stat. Mech.	4						
	PHYS2303	Modern Physics	4	EECE2160	Embedded Design: Enabling Robotics	4		Vacation			Vacation	
	EECE2150	Circuits/Signals: Biomed Apps	5	EECExxxx	EE Fundamentals	4/5						
	Elective	General Elective	4	EECExxxx	EE Fundamentals	4/5						
Year 3 AA	ENCP2000	Intro to Eng'g. Coop	1							EECE4790	Capstone 1	4
	PHYS3602	Elect. & Magnetism	4							PHYS3600	Adv. Physics Lab	4
	EECExxxx	EE Fundamentals	4/5		Co-op			Co-op				
	EECExxxx	CE Fundamentals	4/5									
	*ENGW3302	Adv. Writing for Prof.	4									
Year 4 AA	PHYS4115	Quantum Mechanics 1	4	Elective	EECE Tech Elective 1	4						
	EECE3468	Noise & Stoch. Proc.	4	Elective	EECE Tech Elective 2	4						
	EECE4792	Capstone Design 2	4	PHYSxxxx	Adv. Physics Elective	4						
	ENCP3000	Prof. Issues in Eng'g.	1	Elective	General Elective	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)
*Substitutions
PHYS1151/1152/1153   are an acceptable substitution for PHYS1161/1162/1163.
PHYS1155/1156/1157   are an acceptable substitution for PHYS1165/1166/1167.
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.

3 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: 2 EECE technical electives
EECE2322, (EECE2540-EECE2750), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

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.