BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

COMBINED MAJOR - COMPUTER ENGINEERING AND PHYSICS

CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL		SPRING			SUMMER 1		SUMMER 2
	MATH1341 Calculus 1 for Engrs.	MATH1342	Calculus 2 for Engrs.	4				
	CHEM1151 General Chem. for Engrs.	PHYS1165	Physics 2	4				
	CHEM1153 Recitation for CHEM1151	PHYS1166	Physics 2 Lab	1				
Year 1	PHYS1161 Physics 1	GE1502	Cornerstone of Engineering 2	4		Vacation		Vacation
	PHYS1162 Physics 1 Lab	ENGW1111	College Writing	4				
	GE1000 Intro to Eng'g							
	GE1501 Cornerstone of Engineering 1	ı						
	MATH2321 Calculus 3 for Engrs.	PHYS2305	Thermo & Stat. Mech.	4				
	MATH2341 Diff. Eq./Lin. Alg.	ENCP2000	Intro to Eng'g. Coop	1				
Year 2	PHYS2303 Modern Physics	EECE2150	Circuits/Signals: Biomed Apps	5		Vacation		Со-ор
AA	EECE2160 Embedded Systems: Enabling Robotics 4	EECExxxx	CE Fundamentals	4/5		vacation		со-ор
		CS1800	Discrete Structures	4				
		CS1802	Recitation for CS1800	1				
		PHYS3602	Elect. & Magnetism	4	Elective	General Elective	4	
Year 3 AA	Со-ор	EECExxxx	CE Fundamentals	4/5	PHYS3600	Adv. Physics Lab	4	Со-ор
		EECExxxx	EE Fundamentals	4/5				со-ор
		*ENGW3302	Adv. Writing for Prof.	4				
		PHYS5115	Quantum Mechanics	4	EECE4790	Capstone 1	4	
Year 4		ENCP3000	Prof. Issues in Eng'g.	1	Elective	EECE Tech Elective 1	4	
AA	Со-ор	EECExxxx	CE Fundamentals	4/5				Co-op
AA		Elective	General Elective	4				
		MATH3081	Probability	4				
		EECE4792	Capstone Design 2	4				
Year 5	Colon	Elective	Adv. Physics Elective	4				
AA	Со-ор	Elective	EECE Tech Elective 2	4				
1								

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, 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.

- 2 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: 2 EECE technical electives:

(EECE2412-2530), EECE2750, EECE3154, (EECE3324-EECE4698), (EECE4991- EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

1 CS 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)

Note: AP credit for MATH2280 will substitute for MATH3081 requirement.

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.