BACHELOR OF SCIENCE IN COMPUTER ENGINEERING COMBINED MAJOR - COMPUTER ENGINEERING AND COMPUTER SCIENCE CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024

umple Only – Actual Curriculum Sequence May Deviate from Sample

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		FALL			SPRING		SUMMER 1			SUMMER 2		
Year 1	CHEM1151 CHEM1153 GE1000 GE1501	Calculus 1 for Engrs. General Chem. for Engrs. Recitation for CHEM1151 Intro to Eng'g Cornerstone of Engineering 1 College Writing	4 0 1 4	MATH1342 PHYS1151 PHYS1152 PHYS1153 GE1502 Elective	Calculus 2 for Engrs. Physics 1 for Engrs. Physics 1 Lab ILS for PHYS1151 Cornerstone of Engineering 2 General Elective	4 3 1 4 4	Vacation			Vacation		
Year 2 AA	MATH2341 PHYS1155 PHYS1156 PHYS1157 CS2500 CS2501 CS1800 CS1802	Diff. Eq./Lin. Alg. Physics 2 for Engrs. Physics 2 Lab ILS for PHYS1155 Fundamentals CS 1 Lab for CS2500 Discrete Structures Recitation for CS1800	4 3 1 4 1 4 1	EECE2160 CS2510 CS2511 CS2800 CS2801 Elective ENCP2000	Embedded Design: Enabling Robotics Fundamentals CS 2 Lab for CS2510 Logic and Computation Lab for CS2800 General Elective Intro to Eng'g. Coop	4 4 4 1 4 1 1				Со-ор		
Year 2 BB	PHYS1155 PHYS1156 PHYS1157 CS2500 CS2501 CS1800 CS1802	Diff. Eq./Lin. Alg. Physics 2 for Engrs. Physics 2 Lab ILS for PHYS1155 Fundamentals CS 1 Lab for CS 2500 Discrete Structures Recitation for CS1800 Intro to Eng'g. Coop	4 3 1 4 1 4 1 1		Со-ор		Со-ор			Vacation		
Year 3 AA		Со-ор		EECE2150 CS3000 EECExxxx CS3650	Circuits & Signals: Biomed App. CE Fundamentals CE Fundamentals Computer Systems	5 4 4/5 4	CS3500 Object Oriented Des.	4		Со-ор		
Year 3 BB	EECE2160 CS2510 CS2511 CS2800	Circuits & Signals: Biomed App. Embedded Design: Enabling Robotics Fundamentals CS 2 Lab for CS2510 Logic and Computation Lab for CS2800	5 4 1 4 1		Со-ор		Co-op		<u>*ENGW3302</u> <u>MATH3081</u>	Adv. Writing for Prof. Probability	4	
Year 4 AA		Со-ор		ENCP3000 EECExxxx EECExxxx MATH3081 Elective	Prof. Issues in Eng'g. CE Fundamentals EE Fundamentals Probability CS Tech Elective 1	1 4/5 4/5 4	EECE4790 Capstone Design 1 Elective EECE Tech Elective 1	4 4		Со-ор		
Year 4 BB	EECExxxx EECExxxx <u>CS3500</u>		1 4/5 4/5 4 4		Со-ор		Со-ор		EECE4790 Elective	Capstone Design 1 EECE Tech Elective 1	4	
Year 5 AA		Со-ор		EECE4792 Elective Elective CS4500	Capstone Design 2 EECE Tech Elective 2 CS Tech Elective 2 Software Development	4 4 4						
Year 5 BB	CS3650 EECExxxx	Capstone Design 2 Computer Systems EE Fundamentals CS Tech Elective 1	4 4/5	Elective Elective Elective <u>CS4500</u>	General Elective EECE Tech Elective 2 CS Tech Elective 2 Software Development	4 4 4 4						

The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)
<u>* ENGW3315</u> 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.

Revised March/2018

2 Required General Electives

3 Required CE Fundamentals: EECE2322/2323: Fundamentals Digital Design & Lab AND EECE2540 - Fundamentals Networks and * CS3000 - Algorithms Data (formerly, CS4800)

*Effective Fall 2018 CS3000 Algorithms replaces CS4800

1 Required EE Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab OR EECE2520 - Fundamentals Linear Systems OR EECE 2530/2531 - Fundamentals Electromagnetics & lab

(EE Fundamental Courses not taken to meet the above requirements, may be taken as a technical elective.) Technical Elective Requirements: 2 EECE technical electives and 2 Khoury College of Computer Sciences (CS) technical electives

2 EECE course from the following approved list:

(EECE2412-2530), EECE2750, EECE3154, (EECE3324-EECE3468), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5115-EECE5698), ENGR5670, GE4608

2 CS courses from the following approved list:

Approved List: CY2550, CS3200, CS3540, CS3700, CY3740, CS3800, (CS4100-CS4410), (CS4520-4610), CY4740, 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.

CE/CS Program Changes Effective Spring 2018

Prior to Spring 2018: Students who have completed both EECE2560 and CS4800 will count EECE2560 as one of their EECE technical electives. Students who have completed CS3700 can count this as an CS Technical elective. CS3700 will remain on the approved CS technical elective list.