COMPUTER ENGINEERING PROGRAM (2022 – 2023)

Fall of First Year (15 Credits)

ECE 1000	Introduction to Electrical and Computer Engineering	3
CS 1400	Fundamentals of Programming	3
MATH 1210	Calculus I	4
PHYS 2210	Physics for Scientists and Engineers	4
PHYS 2215	Physics for Scientists and Engineers Lab	1

Spring of First Year (16 Credits)

ECE 2700	Digital Design I	3
ECE 2705	Digital Design I Lab	1
MATH 1220	Calculus II	4
PHYS 2220	Physics for Scientists and Engineers II	4
PHYS 2225	Physics for Scientists and Engineers II Lab	1
ENGL 1010	Introduction to Writing	3

Fall of Second Year (16 Credits)

ECE 2250	Circuit Theory	3
ECE 2255	Circuit Theory Lab	1
ECE 2750	Engineering Analysis	3
CS 1410	Object-Oriented Programming	3
Am. Inst.	Choose from GE approved American Institution list	3
ENGL 2010	Intermediate Writing	3

Spring of Second Year (15 Credits)

ECE 3740	Digital Design II	3
ECE 3760	Electronic Systems	3
ECE 3765	Electronic Systems Lab	1
CS 2420	Introduction to Algorithms and Data Structures	3
CHEM 1210	Principles of Chemistry	4
CHEM 1215	Principles of Chemistry Lab	1

Fall of Third Year (15 Credits)

ECE 3710	Applied Engineering Probability & Statistics	3
ECE 3730	Embedded Systems I	3
ECE 3770	Signals and Systems	3
CS 2300	Discrete Math Structures I	3
CS 2370	C ++ Programming	3

Spring of Third Year (16 Credits)

ECE 3780	Comm Systems and Circuits	3
ECE 3785	Comm Systems and Circuits Lab	1
ECE 4730	Embedded Systems II	3
ECE 4750	Digital Signal Processing (DSP)	3
ECE 4755	DSP Lab	1
General Education	Choose from HLTH 1100 or PES 1097	2
COMM 1020	Public Speaking	3

Fall of Fourth Year (16 Credits)

ECE 4760	VLSI Design	3
ECE 4765	VLSI Design Lab	1
ECE 4700	Computer Architecture for Engineering Application	3
ECE 4900	ECE Capstone I	3
General Education	Choose from Biology Distribution list	3
General Education	Choose from Fine Arts Distribution List	3

Spring of Fourth Year (15 Credits)

ECE 4950	ECE Capstone II	3
ECE Elective	Choose from ECE 4850 or ECE 4260 or ECE 481R	3
CS 3060	Operating Systems Theory	3
COMM 2110	Interpersonal Communication	3
PHIL 205G	Ethics and Values	3

Note: Complete CE Exit Survey