COMPUTER ENGINEERING PROGRAM (2020 - 2021)

Fall of First Year (17 credits)				Spring of First Year (17 credits)		
MATH 1210	Calculus I (May require pre-requisite)	5		MATH 1220	Calculus II	5
CS 1400	Fundamentals of Programming	3		PHYS 2210	Physics for Scientists and Engineers I	4
ECE 1000	Intro. to Electrical and Computer Engineering	3		PHYS 2215	Physics for Scientists and Engineers I Lab	1
ENGL 1010	Introduction to Writing	3		CS 1410	Object-Oriented Programming	3
Am. Inst.	Choose from GE approved American Institution list	3		ECE 2700	Digital Design I	3
				ECE 2705	Digital Design I Lab	1

Fall of Second Year (15 credits)				Spring of Second Year (15 credits)		
CS 2420	Intro. to Algorithms and Data Structures	3		CHEM 1210	Principles of Chemistry	4
PHYS 2220	Physics for Scientists and Engineers II	4		CHEM 1215	Principles of Chemistry Lab	1
PHYS 2225	Physics for Scientists and Engineers II Lab	1		ECE 3760	Electronic Systems	3
ECE 2250	Circuit Theory	3		ECE 3765	Electronic Systems Lab	1
ECE 2255	Circuit Theory Lab	1		ECE 3740	Digital Design II	3
ECE 3750	Engineering Analysis	3		CS 2370	C++ Programming	3

Fall of Third Year (15 credits)				Spring of Third Year (17credits)		
ECE 3710	Applied Engineering Probability & Statistics	3		ECE 3780	Communication Systems and Circuits	3
ECE 3730	Embedded Systems I	3		ECE 3785	Communication Systems and Circuits Lab	1
ENGL 2010	Intermediate Writing	3		ECE 4730	Embedded Systems II	3
ECE 3770	Signals and Systems	3		ECE 4750	Digital Signal Processing	3
CS 2300	Discrete Structures	3		ECE 4755	Digital Signal Processing Lab	1
				Biology	Choose from the GE approved Biology List	3
				COMM 1020	Public Speaking	3

Fall of Fourth Year (15 credits)				Spring of Fourth Year (15 credits)		
ECE 4900	Electrical and Computer Engineering Capstone I	3		ECE 4950	Electrical and Computer Engineering Capstone I	3
ECE 4760	VLSI Design	3		CE Elective	Choose from the CE approved Electives	3
ECE 4765	VLSI Design Lab	1		COMM 2110	Interpersonal Communications	3
ECE 4700	Computer Architecture for Engineering Applications	3		PHIL 205G	Ethics and Values	3
Health	HLTH 1100 or PES 1097	2		CS 3060	Operating Systems Theory	3
Fine Arts	Choose from the GE approved Fine Arts List	3				