



COMPUTER ENGINEERING PROGRAM (2018 - 2019)

Fall of First Year (15 credits)			Spring of First Year (16 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	4
ECE 1020	CE Problem Solving with Matlab & Labview	1	PHYS 2215	Physics for Scientists and Engineers Lab	1
ENGL 1010	Introduction to Writing	3	CS 1410	Object-Oriented Programming	3
Am. Inst.	Choose from GE approved American Institution list	3	CS 2810	Computer Organization and Architecture	3
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 2250	Circuit Theory	3
ECE 2700	Digital Design I	3	ECE 2255	Circuit Theory Lab	1
ECE 2705	Digital Design I Lab	1	ECE 3740	Digital Design II	3
ECE 3750	Engineering Analysis	3	ECE 3770	Signals and Systems	3
Fall of Third Year (16 credits)			Spring of Third Year (16 credits)		
ECE 3710	Applied Engineering Probability & Statistics	3	ECE 3760	Electronic Systems	3
ECE 3730	Embedded Systems I	3	ECE 3765	Electronic Systems Lab	1
ENGL 2010	Intermediate Writing	3	ECE 4730	Embedded Systems II	3
COMP 301R	Digital Lecture Series	1	CS 3060	Operating Systems Theory	3
CS 2300	Discrete Structures I	3	Biology	Choose from the GE approved Biology List	3
CS 2600	Computer Networks I	3	COMM1020	Public Speaking	3
Fall of Fourth Year (15 credits)			Spring of Fourth Year (18 credits)		
ECE 4750	Digital Signal Processing	3	CS 2450	Software Engineering	3
ECE 4760	VLSI Design	3	CE Elective	Choose from the CE approved Electives	3
ECE 4765	VLSI Design Lab	1	ECE 4800	CE Senior Design Project	3
CS 4380	Advanced/High-Performance Computer Architecture	3	CS 305G	Global Social & Ethical Issues in Computing	3
Health	HLTH 1100 or PES 1097	2	COMM 2110	Interpersonal Communications	3
Fine Arts	Choose from the GE approved Fine Arts List	3	PHIL 2050	Ethics and Values	3