

**ELECTRICAL ENGINEERING PROGRAM (2018 - 2019)**

<b>Fall of First Year (16 credits)</b>			<b>Spring of First Year (16 credits)</b>		
MATH 1210	Calculus I (May require pre-requisite)	5	MATH 1220	Calculus II	5
CHEM 1210	Principles of Chemistry	4	PHYS 2210	Physics for Scientists and Engineers I	4
CHEM 1215	Principles of Chemistry Lab	1	PHYS 2215	Physics for Scientists and Engineers I Lab	1
ENGL 1010	Introduction to Writing	3	ENGL 2010	Intermediate Writing	3
ENGR 1000	Introduction to Engineering	3	CS 1400	Fundamentals of Programming	3
<b>Fall of Second Year (17 credits)</b>			<b>Spring of Second Year (16 credits)</b>		
CS 2810	Computer Organization and Architecture	3	MATH 2210	Calculus III	3
PHYS 2220	Physics for Scientists and Engineers II	4	ECE 3750	Engineering Analysis	3
PHYS 2225	Physics for Scientists and Engineers II Lab	1	ECE 2670	Intro. to Semiconductor Theory and Nanotech.	3
ECE 2700	Digital Design I	3	ECE 2250	Circuit Theory	3
ECE 2705	Digital Design I Lab	1	ECE 2255	Circuit Theory Lab	1
Biology	Choose from the GE approved Biology List	3	ECE 3710	Applied Probability & Statistics for Engineers	3
Health	HLTH 1100 or PES 1097	2			
<b>Fall of Third Year (16 credits)</b>			<b>Spring of Third Year (15 credits)</b>		
ECE 3770	Signals and Systems	3	ECE 3250	Power Systems	3
ECE 3740	Digital Design II	3	ECE 3350	Control Systems	3
ECE3760	Electronic Systems	3	ECE 3780	Communication Systems and Circuits	3
ECE 3765	Electronic Systems Lab	1	ECE 4730	Embedded Systems II	3
ECE 3730	Embedded Systems I	3	COMM1020	Public Speaking	3
Fine Arts	Choose from the GE approved Fine Arts list	3			
<b>Fall of Fourth Year (15 credits)</b>			<b>Spring of Fourth Year (15 credits)</b>		
ECE 4900	Electrical Engineering Capstone I	3	ECE 4950	Electrical Engineering Capstone II	3
ECE 4760	VLSI Design	3	ECE 3450	Electromagnetics & Transmission Lines	3
EE Elective	Choose from the EE approved Electives	3	EE Elective	Choose from the EE approved Electives	3
Am.Inst.	Choose from the GE approved American Institution list	3	ECE 4750	Digital Signal Processing	3
COMM 2110	Interpersonal Communications	3	PHIL 2050	Ethics and Values	3