

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum by Year – STARTING with MATH 111			
Course Name	Hours	Course Name	Hours
Year 1			
Fall		Spring	
ENGR 103 (Fundamentals of Engineering)	3	ENGR 110 (Engineering Graphics)	3
MATH 111 (Pre-Calculus)	4	PHYS 111/111L (General Physics I/Lab)	4
ENGL 110 (Intro to Academic Writing)	4	MATH 120 (Calculus I)	4
Humanities 1 of 4 (INTL 100 Learn Community)	3	Humanities 2 of 4	3
History 1 of 2	3	History 2 of 2	3
Total Semester Hours	17	Total Semester Hours	17
Year 2			
Fall		Spring	
CSCI 218/218L (Engineering Programming/Lab)	4	MATH 221 (Calculus III)	4
PHYS 112/112L (General Physics II/Lab)	4	PHYS 394/394L (Signal/Image with Lab)	4
MATH 220 (Calculus II)	4	ENGR 310/310L (Circuit Analysis II/Lab)	4
MATH 207 (Discrete Structures)	3	CSCI 250/250L (Comp Org / Assembly)	4
MATH 250 (Statistical Methods)	3		
Total Semester Hours	18	Total Semester Hours	16
Year 3			
Fall		Spring	
ENGR 210/210L (Circuit Analysis I/Lab)	4	PHYS 272 (Methods of Applied Physics)	3
PHYS 320 (Introduction to Electronics/Lab)	4	ENGR 400 (Digital Design)	3
ECON 200 (<i>Preferred</i> Social Science 1 of 2)	3	ECON 201 (<i>Preferred</i> Social Science 2 of 2)	3
Humanities 3 of 4	3	Engineering Elective I (See Pool)	3
Foreign Language 1 of 4	3	Humanities 4 of 4	3
		Foreign Language 2 of 4	3
Total Semester Hours	17	Total Semester Hours	18
Year 4			
Fall		Spring	
ENGR 470 (Capstone Design Project I)	3	ENGR 471 (Capstone Design Project II)	3
ENGR 410/410L (Control Systems/Lab)	4	Engineering Elective II (See Pool)	3
ENGR 341 (Electromech Energy Conver/Power)	3	CHEM 111/111L (<i>Preferred</i> 3 rd Lab Science)	4
ENGR 380 (Vehicle Electric/Electronic Design)	3	ENGR 401/401L (Comm/Auto Nav/Lab)	4
Foreign Language 3 of 4	3	Foreign Language 4 of 4	3
Total Semester Hours	16	Total Semester Hours	17