



**B.S. ELECTRICAL ENGINEERING**  
**2021-2022**  
**4 YEAR DEGREE PLAN- TRADITIONAL CALCULUS**

FIRST YEAR	FALL SEMESTER 20__			SPRING SEMESTER 20__		
	ECE 1900	<i>FRESHMAN SEMINAR</i>	1.0	ECE 1240	<i>ECE DESIGN</i>	3.0
	CS 1420	<i>INTRO TO PROGRAMMING</i>	4.0	ECE 1245	<i>ECE DESIGN LAB</i>	0.5
	MATH 1210*	<i>CALCULUS I</i>	4.0	ECE 1050	<i>MATLAB</i>	0.5
	WRTG 2010/HONOR 2211 or EAS 1060	<i>INTERMEDIATE WRITING</i>	3.0	MATH 1220	<i>CALCULUS II</i>	4.0
	LEAP 1501	<i>ETHICS IN ENGINEERING</i>	3.0	PHYS 2210	<i>ENG PHYSICS I</i>	4.0
	<b>TOTAL CREDIT HOURS</b>	<b>15.0</b>		<b>TOTAL CREDIT HOURS</b>	<b>15.0</b>	
SECOND YEAR	FALL SEMESTER 20__			SPRING SEMESTER 20__		
	ECE 2240 & ECE 2245	<i>CIRCUITS</i>	4.0	ECE 2280 & ECE 2285	<i>ELECTRONICS FUND</i>	4.0
	MATH 2210	<i>CALCULUS III</i>	3.0	ECE 3700	<i>DIGITAL SYS DESIGN</i>	4.0
	PHYS 2220	<i>ENG PHYSICS II</i>	4.0	MATH 2250	<i>DIFF EQUA LIN ALG</i>	4.0
	CHEM 1210 or BIOL 1610	<i>GEN CHEM or BIOL</i>	3 or 4	AI REQ.	<i>AMERICAN INSTITUTIONS</i>	3.0
	CHEM 1215 OR PHYS 2215 or 2225	<i>CHEM or PHYS lab</i>	1.0			
	<b>TOTAL CREDIT HOURS</b>	<b>15-16</b>		<b>TOTAL CREDIT HOURS</b>	<b>15.0</b>	
THIRD YEAR	FALL SEMESTER 20__			SPRING SEMESTER 20__		
	ECE 3300 & 3305	<i>EM &amp; TRANSM LNS</i>	4.0	ECE 3200	<i>SEMICOND DEVICES</i>	3.0
	ECE 3500	<i>SIGNALS, SYSTEMS</i>	4.0	ECE 3900	<i>JUNIOR SEMINAR</i>	1.0
	MATH 3150	<i>PDES FOR ENG</i>	2.0	ECE 3030	<i>TECHNICAL COMM</i>	3.0
	ECE 3530	<i>ENG PROB &amp; STATS</i>	3.0	ECE 3000+	<i>BREADTH ELECTIVE</i>	4.0
	ECE 3000+	<i>TECHNICAL ELECTIVE</i>	3.0	ECE 3000+	<i>BREADTH ELECTIVE</i>	4.0
	<b>TOTAL CREDIT HOURS</b>	<b>16.0</b>		<b>TOTAL CREDIT HOURS</b>	<b>15.0</b>	
FOURTH YEAR	FALL SEMESTER 20__			SPRING SEMESTER 20__		
	ECE 4900	<i>SENIOR THESIS I</i>	4.0	ECE 4910	<i>SENIOR THESIS II</i>	4.0
	ECE 3000+	<i>TECH ELECTIVES</i>	6.0	ECE 3000+	<i>TECHNICAL ELECTIVES</i>	6.0
	ECE 3000+	<i>BREADTH ELECTIVE</i>	4.0	VARIES	<i>GENERAL EDUCATION</i>	6.0
	VARIES	<i>GENERAL EDUCATION</i>	6.0			
		<b>TOTAL CREDIT HOURS</b>	<b>20.0</b>		<b>TOTAL CREDIT HOURS</b>	<b>16.0</b>

\*Designates a Pre-Major Course

Admission requirements: 2.8 GPA in Pre-Major; 2.5 GPA Overall

12 credit hours per semester is recommended for full time students.  
 Meet with your Academic Advisor to make an individual plan.