

ELECTRICAL ENGINEERING (B.S.)

Course	Title	Hours
Freshman		
Fall		
CSC 118	COMPUTER SCIENCE I	3
ECE 101	Introduction to Electrical and Computer Engineering	2
ENG 104	COMPOSITION I	3
or ENG 103	or English Composition I with Co-requisite Support	
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 241	CALCULUS I WITH LABORATORY	3
UNIV 100	UNIVERSITY SUCCESS	2
Pathway Option		3
Hours		16
Spring		
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
ECE 212	DIGITAL LOGIC	4
& ECEL 212	and DIGITAL LOGIC LABORATORY	
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211	General Physics I	4
& PHYL 211	and GENERAL PHYSICS LAB I	
Pathway Option		3
Hours		17
Sophomore		
Fall		
MATH 243	CALCULUS III WITH LABORATORY	3
PHY 212	General Physics II	4
& PHYL 212	and GENERAL PHYSICS LAB II	
CSC 119	COMPUTER SCIENCE II	3
CHEM 141	GENERAL CHEMISTRY I	4
& CHML 141	and GENERAL CHEMISTRY LAB	
ECE 220	CIRCUIT THEORY	4
& ECEL 220	and CIRCUITS LABORATORY	
Hours		18
Spring		
MATH 244	CALCULUS IV WITH LABORATORY	3
ECE 312	COMPUTER ORGANIZATION & DESIGN	3
ECE 252	ENGINEERING ANALYSIS	3
ECE 330	ELECTRONICS	4
& ECEL 330	and ELECTRONICS LABORATORY	
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
Hours		17
Junior		
Fall		
MATH 368	DIFFERENTIAL EQUATIONS	3
ECE 320	CIRCUIT THEORY II	3
ECE 351	SIGNALS AND SYSTEMS	3
ECE 335	SEMICONDUCTOR DEVICES	3
ECE 360	EMBEDDED MICROPROCESSOR SYSTEM	4
& ECEL 360	and MICROPROCESSOR LABORATORY	
Hours		16
Spring		
MATH 307	PROBLTY & STATISTICS/ENGINEERG	3
ECE 355	CONTROL SYSTEMS	3
ECE 331	ELECTRONICS II	4
& ECEL 331	and ELECTRONICS II LABORATORY	
CIV 355	ENGINEERING ECONOMY	3

Humanities & Fine Arts Option		3
Hours		16
Senior		
Fall		
ECE 490	SENIOR DESIGN PROJECTS I	3
ECE 440	COMMUNICATION SYSTEMS	3
Technical Elective I		3
Social & Behavioral Science Option		3
Hours		12
Spring		
ECE 491	SENIOR DESIGN PROJECTS II	3
ECE 345	ELECTROMAGNETIC FIELDS	3
Technical Elective II		3
Technical Elective III		3
Hours		12
Total Hours		124

Notes

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Students are required to take the Mathematics Placement Test to determine if they need to take any math courses before taking MATH 241 CALCULUS I WITH LABORATORY (C).
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Electrical Engineering Technical Electives

Code	Title	Hours
ECE 351	SIGNALS AND SYSTEMS	3
ECE 430	DIGITAL VLSI DESIGN	3
ECE 431	Digital System Testing and Design for Testability	3
ECE 435	POWER ELECTRONICS	3
ECE 441	COMPUTER NETWORKS	3
ECE 480	POWER SYSTEM ANALYSIS	3
ECE 481	ELECTRIC MACHINES	3
ECE 492	SPCL STDS N ELEC & COMPU ENGIN	3
ECE 493	SPCL TPCS N ELECTRL & COMPU EN	3