



Transfer Pathway: Associate of Applied Science in Engineering Fundamentals Concentration in Electrical Engineering to Bachelor of Science in Engineering in Electrical Engineering Bulletin Year: 2022-2023

This course plan is a recommended sequence for this major. Please seethe University of South Carolina Bulletin for detailed degree requirements and contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

	Credit	Min.		UofSC Degree
Course Subject and Title	Hours	Grade	UofSC Equivalent Course	Applicability
emester One (17 Credit Hours)				
CE 101 Electrical and Electronic Engineering	3	С	ELCT 101 Electrical & Electronics Engineering	PR
NG 101 English Composition I	3	С	ENGL 101 Critical Reading and Composition	CC-CMW
HM 110 College Chemistry 1	4	С	CHEM 111 General Chemistry and CHEM 111L General Chemistry I Lab	CC-SCI
IAT 110 College Algebra (7 week course)*	3	С	MATH 111 Basic College Mathematics	Pre-req
IAT 111 College Trigonometry (7 week course)*	3	C C	MATH 112 Trigonometry	Pre-req
OL 101 College Orientation	1	C	Non-transferable	Fle-leq
			Non-transferable	
emester Two (17 Credit Hours)				
IAT 140 Analytical Geometry and Calculus I	4	С	MATH 141 Calculus 1	CC-ARP
NG 102 English Composition II	3	С	ENGL 102 Rhetoric and Composition	CC-CMW/INF
CE 102 Instrument Control	3	С	ELCT 102 Electrical Science	PR
HE 101 Introduction to Theater	3	С	Carolina Core AIU	CC-AIU
GR 281 Introduction to Algorithmic Design I	4	С	CSCE 145 Algorithmic Design I	PR
ummer (15 Credit Hours)	-	-		
GR 283 Intro to Algorithmic Design II	4	С	CSCE 146 Algorithmic Design II	PR-General Elective
IAT 141 Analytical Geometry and Calculus II	4	С	MATH 142 Calculus II	CC-ARP
IST 101 Western Civilization to 1689	3	С	Carolina Core GHS	CC-GHS
HY 221 University Physics II	4	С	PHYS 211 Essentials of Physics I and PHYS 211L Essentials of Physics I Lab	CC-SCI
emester Three (17 Credit Hours)				
CE 211 Intro to Computing Engineering I	3	С	CSCE 211 Digital Logic Design	PR
IAT 242 Differential Equations	4	С	MATH 242 Elem. Differential Equations	PR
HY 222 University Physics II	4	С	PHYS 212 Essentials of Physics II and PHYS 212L Essentials of Physics II Lab	PR
CE 221 Intro to Electrical Engineering I	3	С	ELCT 221 Circuits	PR
SC 201 American Government	3	С	POLI 201 American National Government	CC-GSS/VSR
emester Four (16 Credit Hours)				
CE 212 Intro to Computer Engineering II	3	С	CSCE 212 Intro to Computer Architecture	PR
CE 222 Intro to Electrical Engineering II	3	С	ELCT 222 Signals and Systems	PR
GR 209 Statistics for Engineers	3	С	STAT 509 Statistics for Engineers	PR
IAT 240 Analytical Geometry and Calculus III	4	C	MATH 241 Vector Calculus	PR
CE 205 Electrical and Computer Lab 1	3	C	ELCT 201 Into to Electrical Engineering Lab	PR
emester Five (15 Credit Hours)				
SCE 313 Embedded Systems	3	С		PR
LCT 301 Electronics Laboratory	3			MR
LCT 321 Digital Signal Processing	3			MR
LCT 363 Intro. to Microelectronics	3			MR
LCT 371 Electronics	3			MR
emester Six (15 Credit Hours)				WIT
LCT 302 Real-Time Systems Laboratory	3			MR
LCT 331 Control Systems	3			MR
LCT 361 Electromagnetics	3			MR
MCH 220 Mech. Engr. Fund. for Non-Majors	3			PR
lective	3			PR
emester Seven (12 Credit Hours)				
LCT 403 Capstone Design Project I	3			MR/CC-INT
areer Plan Elective	3	С		PR
areer Plan Elective	3	Č		PR
areer Plan Elective	3	C		PR
				MR
emester Eight (12 Credit Hours)	2			
emester Eight (12 Credit Hours) LCT 404 Capstone Design Project II	3	C.		
emester Eight (12 Credit Hours) LCT 404 Capstone Design Project II areer Plan Elective	3	C		PR
emester Eight (12 Credit Hours) LCT 404 Capstone Design Project II areer Plan Elective areer Plan Elective	3	С		PR PR
emester Eight (12 Credit Hours) LCT 404 Capstone Design Project II areer Plan Elective areer Plan Elective areer Plan Elective	3			PR
emester Eight (12 Credit Hours) LCT 404 Capstone Design Project II areer Plan Elective areer Plan Elective areer Plan Elective ake during any semester (0-9 Credit Hours) arolina Core CMS	3	С		PR PR

* Students may place into and begin with MAT 140.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the <u>Carolina Core</u> page on the University website.

Codes:			
CC Carolina	a Core	CC-INF	Carolina Core – Information Literacy
CC-AIU Carolina	a Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course
CC-ARP Carolina	a Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy
CC-CMS Carolina	a Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core – Values, Ethics, and Social Responsibility
CC-CMW Effective	e, Engaged, and Persuasive Communication: Written Component	CR	College Requirement
CC-GFL Carolina	a Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement
CC-GHS Carolina	a Core – Historical Thinking	PR	Program Requirement
CC-GSS Carolina	a Core – Social Sciences		