



Transfer Pathway: Associate of Applied Science in Engineering Fundamentals Concentration in Electrical Engineering to Bachelor of Science in Engineering in Electrical Engineering Bulletin Year: 2021-2022

This course plan is a recommended sequence for this major. Please see the 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.

Course Subject and Title	Credit Hours	Min. Grade	UofSC Equivalent Course	UofSC Degree Applicability
Semester One (17 Credit Hours)	3		ELCT 101 Electrical and Electronica	DD
	5	U	ELCT TOT Electrical and Electronics Engineering	PR
ENG 101 English Composition I	3	С	ENGL 101 Critical Reading and Composition	CC-CMW
CHM 110 College Chemistry 1	4	С	CHEM 111 General Chemistry and CHEM 111L General Chemistry I Lab	CC-SCI
MAT 110 College Algebra (7 week course)*	3	С	MATH 111Basic College Mathematics	Pre-req
MAT 111 College Trigonometry (7 week course)*	3	С	MATH 112 Trigonometry	Pre-req
COL 101 College Orientation	1		Non-transferable	
Semester Two (17 Credit Hours)	T T			
MAT 140 Analytical Geometry and Calculus I	4	С	MATH 141 Calculus 1	CC-ARP
ENG 102 English Composition II	3	<u>C</u>	ENGL 102 Rhetoric and Composition	CC-CMW/INF
ECE 102 Instrument Control	3	C	ELCT 102 Electrical Science	PR
THE 101 Introduction to Theater	3	С	Carolina Core AIU	CC-AIU
EGR 281 Introduction to Algorithmic Design I	4	С	CSCE 145 Algorithmic Design I	PR
Semester Three -Summer (15 Credit Hours)				
EGR 283 Introduction to Algorithmic Design II	4	С	CSCE 146 Algorithmic Design II	PR
MAT 141 Analytical Geometry and Calculus II	4	С	MATH 142 Calculus II	CC-ARP
HIS 101 Western Civilization to 1689	3	С	Carolina Core GHS	CC-GHS
PHY 221 University Physics II	4	С	PHYS 211 Essentials of Physics I and PHYS 211L Essentials of Physics I Lab	CC-SCI
Semester Four (17 Credit Hours)			I	1
ECE 211 Intro to Computing Engineering I	3	С	CSCE 211 Digital Logic Design	PR
MAT 242 Differential Equations	4	С	MATH 242 Elem. Differential Equations	PR
PHY 222 University Physics II	4	C	PHYS 212 Essentials of Physics II	PR
			and PHYS 212L Essentials of Physics II Lab	
ECE 221 Intro to Electrical Engineering I	3	С	ELCT 221 Circuits	PR
PSC 201 American Government	3	С	POLI 201 American National Government	CC-GSS + VSR, Founding Documents
Semester Five (16 Credit Hours)				
ECE 212 Intro to Computer Engineering II	3	С	CSCE 212 Intro to Computer Architecture	PR
ECE 222 Intro to Electrical Engineering II	3	С	ELCT 222 Signals and Systems	PR
EGR 209 Statistics for Engineers	3	C	STAT 509 Statistics for Engineers	PR
IMAT 240 Analytical Geometry and Calculus III	4	<u>C</u>	MATH 241 Vector Calculus	PR
Course Subject and Title	Credit Hours	Min. Grade	MTC Equivalent Course Option to take during summer or as transient student	UofSC Degree Applicability
Semester Six (12 Credit Hours)				
ELCT 301 Electronics Laboratory	3			MR
ELCT 321 Digital Signal Processing	3			MR
ELCT 363 Intro. to Microelectronics	3			MR
ELCT 371 Electronics	3			MR
Semester Seven (15 Credit Hours)	â			
ELCT 302 Real-Time Systems Laboratory	3			MR
ELCT 331 Control Systems	3			MR
ELCT 350 Computer Modeling of Elect. Sys.	১ 2			MR
EMCH 220 Mechanical Engineering Fundamentals for Non-	3			PR
Majors				
Semester Eight (12 Credit Hours)	2			
Career Plan Elective	3			MIK/CC-INT
	3			
FCON 421 Engineering Economics	3			
Semester Nine (12 Credit Hours)				ртх
ELCT 404 Capstone Design Project II	3			MR
Career Plan Elective	3			PR
Career Plan Elective	3			PR
Career Plan Elective	3			PR
Take during any semester (0-9 Credit Hours)				

Carolina Core CMS	0-3	SPC 205 Public Speaking	CC-CMS
Carolina Core GFL	0-6	FRE 101+102 or SPA 101+102	CC-GFL

* Students may place into and begin with MAT 140.

Approved December 2021