



**Direct Transfer Track: Associate of Applied Science in Engineering Fundamentals Concentration in Computer Engineering
to Bachelor of Science in Computer Science**
Bulletin Year: 2023-2024

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	USC Equivalent Course	USC Degree Applicability
Semester One (18 Credit Hours)				
ENG 101 English Composition I	3	C	ENGL 101 Critical Reading & Composition	CC-CMW
CHM 110 College Chemistry	4	C	CHEM 111 General Chemistry I & CHEM 111L General Chemistry Lab	CC-SCI
MAT 110 College Algebra (7-week course) *	3	C	MATH 111 Basic College Mathematics	Pre-req
MAT 111 College Trigonometry (7-week course) *	3	C	MATH 112 Trigonometry	Pre-req
COL 101 College orientation	1		Non-Transferable	
EGR 281 Intro to Algorithmic Design	4	C	CSCE 145 Algorithmic Design I	PR
Semester Two (17 Credit Hours)				
MAT 140 Analytical Geometry & Calculus I	4	C	MATH 141 Calculus I	CC-ARP
ENG 102 English Composition II	3	C	ENGL 102 Rhetoric & Composition	CC-CMW/INF
CPT 247 UNIX Operating System	3	C	CSCE 215 UNIX/Linux Fundamentals	PR
HIS 101 Western Civilization to 1689	3	C	HIST 101 Eur Civ: Ancient-Mid 17 th Cent.	CC-GHS
EGR 283 Intro to Algorithmic Design II	4	C	CSCE 146 Algorithmic Design II	PR
Semester Three- Summer (13 Credit Hours)				
MAT 141 Analytical Geometry & Calculus II	4	C	MATH 142 Calculus II	CC-ARP
MUS 105 Music Appreciation or ART 101 Art History & Appreciation or THE 101 Introduction to Theatre	3	C	MUSC 110 Introduction to Music or ARTE 101 Introduction to Art or THEA 200 Understanding & Appreciating Theatre	CC-AIU
SPC 205 Public Speaking	3	C	SPCH 140 Public Communications	CC-CMS
PSC 201 American Government	3	C	POLI 201 American National Government	CC-GSS/ Founding Doc
Semester Four (17 Credit Hours)				
ECE 102 Instrument Control	3	C	ELCT 102 Electrical Science	PR-Application Area Elective
MAT 240 Analytical Geometry & Calculus III	4	C	MATH 241 Vector Calculus	PR
ECE 211 Intro to Computer Engineering	3	C	CSCE 211 Digital Logic Design	PR
PHY 221 University Physics I	4	C	PHYS 211 Essential of Physics I & PHYS 211L Essentials of Physics Lab	CC-SCI
ECE 245 Object-Oriented Program Technology	3	C	CSCE 240 Advanced Programming Techniques	PR
Semester Five (16 Credit Hours)				
ECE 221 Intro to Electrical Engineering I	3	C	ELCT 221 Circuits	PR-Application Area Elective
MAT 242 Differential Equations	3	C	MATH 242 Elem. Differential Equations	PR-Application Area Elective
EGR 209 Statistics for Engineers	3	C	STAT 509 Statistics for Engineers	PR
PHY 222 University Physics II	4	C	PHYS 212 Essential of Physics II & PHYS 212L Essentials of Physics Lab	PR-Lab Science Elective
ECE 212 Intro to Computer Engineering	3	C	CSCE 212 Intro to Computer Architecture	PR
Semester Six (15 Credit Hours) Fall				
CSCE 311 Operating Systems	3	C		MR
MATH 374 Discrete Structures	3	C		PR
CSCE 247 Software Engineering	3	C		
CSCE Major Elective	3	C		MR
Liberal Arts Elective	3	C		PR
Semester Seven (14 Credit Hours) Spring				
CSCE 416 Intro to Computer networks	3	C		MR
CSCE 350 Data Structures & Algorithms	3	C		MR
CSCE 390 Prof. Issues in Computer Science Engr.	1	C		CC-VSR
CSCE Major Elective	3	C		MR
ENGL 462 Technical Writing or ENGL 463 Business Writing	3	C		PR
CSCE 190 Computing in the Modern World	1	C		PR
Semester Eight (12 Credit Hours) Fall				
CSCE 355 Foundations of Computation	3	C		MR
CSCE 490 Capstone Computing Project I (fall only)	3	C		MR/ CC-INT
CSCE 330 Programming Lang. Structures (fall only)	3	C		MR
CSCE Major Elective	3	C		MR

Semester Nine (13 Credit Hours) Spring				
CSCE 492 Capstone Computing Project II (spring only)	3	C		MR
Liberal Arts Elective	3	C		PR
Liberal Arts Elective	3	C		PR
Math 344 Applied Linear Algebra	3	C		PR
MATH 344L Applied Linear Algebra Lab	1	C		PR
Take during any semester (0-6 Credit Hours)				
Carolina Core GFL	0-6	C		CC-GFL

*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 [Carolina Core](#) page on the University website.

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