



**Transfer Pathway: Associate of Applied Science in Engineering Fundamentals with a Concentration in Civil Engineering
to Bachelor of Science in Engineering in Civil Engineering**

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 (17 Credit Hours)				
EGR 270 Introduction to Engineering	3	C	ENCP 101 Introduction to Engineering	PR
ENG 101 English Composition I	3	C	ENGL 101 Critical Reading and Composition	CC-CMW
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
CHM 110 College Chemistry I	4	C	CHEM 111 & 111L General Chemistry I & Lab	CC-SCI
COL 101 College Orientation	1		Not transferrable	
Semester Two (17 Credit Hours)				
MAT 140 Analytical Geometry and Calculus I	4	C	MATH 141 Calculus I	CC-ARP
ENG 102 English Composition	3	C	ENGL 102 Rhetoric and Composition	CC-CMW/INF
CHM 111 College Chemistry II	4	C	CHEM 112 & 112L General Chemistry II & Lab	PR-Math/Sci Elective
PSC 201 American Government	3	C	POLI 201 American National Government	CC-GSS/VR (FD)
HIS Course (Ex. HIS 101, 102, 201, 202, etc.)	3	C		CC-GHS
Summer (11 Credit Hours)				
EGR 260 Engineering Statics	3	C	ENCP 200 Statics	PR
MAT 141 Analytical Geometry and Calculus II	4	C	MATH 142 Calculus II	CC-ARP
PHY 221 University Physics I	4	C	PHYS 211 & 211L Essentials of Physics I & Lab	CC-SCI
Semester Three (14 Credit Hours)				
BIO 101 Biological Science I	4	C	BIOL 101 & BIOL 101L Biological Principles & Lab	PR-ESM Elective
EGR 274 Engineering Application of Numerical Methods	3	C	ENCP 201 Intro to Applied Numerical Method	PR-Technical Elective
EGR 268 Fluid Mechanics	3	C	ENCP 360 Fluid Mechanics	PR
MAT 240 Analytical Geometry and Calculus III	4	C	MATH 241 Vector Calculus	PR-Foundational Math Elective
Semester Four (16 Credit Hours)				
EGR 209 Statistics for Engineers	3	C	STAT 509 Statistics for Engineers	PR
EGR 264 Intro to Engineering Mechanics of Solids	3	C	ENCP 260 Intro to Mechanics of Solids	PR
EGR 275 Intro to Engr./Computer Graphics	3	C	ENCP 102 Intro to Computer-Aided Design	PR
MAT 242 Differential Equations	4	C	MATH 242 Elem. Differential Equations	PR
THE 101 Introduction to Theatre	3	C	THEA 200 Understanding & Appreciating Theatre	CC-AIU
Semester Five (13 Credit Hours)				
ECIV 303 Civil Engineering Materials	3	C		MR
ECIV 320 Structural Analysis I	3	C		MR
ECIV 340 Intro. to Transportation Engineering	3	C		MR
ECIV 350 Intro. to Environmental Engineering	3	C		MR
ECIV Laboratory Course	1	C		PR
Semester Six (16-17 Credit Hours)				
ECIV 330 Intro. to Geotechnical Engineering	3	C		MR
ECIV 362 Intro. to Water Resources Engineering	3	C		MR
ECIV Distribution Elective	3	C		PR
ECIV Distribution Elective	3	C		PR
ESM Elective	3-4	C		PR
ECIV Laboratory Course	1	C		PR
Semester Seven (15-17 Credit Hours)				
ECIV 307 Professional Development for Civil Engineers	3	C		MR
ECIV Distribution Elective	3	C		PR
ESM Elective	3	C		PR
ESM Elective	3-4	C		PR
Basic Science Elective	3-4	C		PR
Semester Eight (13-15 Credit Hours)				
ECIV 470 Civil Engineering Design	4	C		MR-CC-INT
ECIV Distribution Elective	3	C		PR
Career Elective (any ESM or ACCT 222, ECON 224, FINA 333, MGMT 371, MGSC 290, MKTG 350)	3-4	C		PR
Career Elective (any ESM or ACCT 222, ECON 224, FINA 333, MGMT 371, MGSC 290, MKTG 350)	3-4	C		PR
Take during any semester (3-9 Credit Hours)				
Carolina Core CMS	3			CC-CMS
Carolina Core GFL	0-6			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	FD	Founding Documents