

**Transfer Pathway: Associate of Applied Science in Engineering Fundamentals Concentration in Civil Engineering  
to Bachelor of Science in Engineering in Civil 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
<b>Semester One (17 Credit Hours)</b>				
EGR 270 Introduction to Engineering	3	C	ENCP 101 Intro to Engineering I (counts toward ECIV 101 Intro to Civil Engineering)	PR
ENG 101 English Composition I	3	C	ENGL 101 Critical Reading and Composition	CC-CMW
CHM 110 College Chemistry 1	4	C	CHEM 111 General Chemistry I and CHEM 111L General Chemistry I 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	
<b>Semester Two (17 Credit Hours)</b>				
MAT 140 Analytical Geometry and Calculus I	4	C	MATH 141 Calculus 1	CC-ARP
PSC 201 American Government	3	C	POLI 201 American National Government	CC-GSS + VSR, Founding Documents
ENG 102 English Composition II	3	C	ENGL 102 Rhetoric and Composition	CC-CMW/INF
GHS Transfer Course (ex: HIS 101, 102, 201, 202, etc.)	3	C	Carolina Core GHS	CC-GHS
CHM 111 College Chemistry II	4	C	Foundational Math/Science Elective	PR
<b>Semester Three - Summer (11 Credit Hours)</b>				
EGR 260 Engineering Statics	3	C	ENCP 200 Statics (counts toward ECIV 200 Statics)	PR
MAT 141 Analytical Geometry and Calculus II	4	C	MATH 142 Calculus II	CC-ARP
PHY 221 University Physics I	4		PHYS 211 Essentials of Physics I and PHYS 211L Essentials of Physics I Lab	CC-SCI
<b>Semester Four (13 Credit Hours)</b>				
EGR 274 Engineering App of Numerical Methods	3	C	ENCP 201 Intro to Appl Numerical Method (counts toward ECIV 201 Computational Methods for Civil Engineering)	MR
MAT 240 Analytical Geometry and Calculus III	4	C	MATH 241 Vector Calculus	PR
EGR 262 Engineering Dynamics	3	C	ENCP 210 Dynamics (counts as ESM Elective)	PR
EGR 268 Engineering Fluid Mechanics	3	C	ENCP 360 Fluid Mechanics (counts toward ECIV 360 Fluid Mechanics)	PR
<b>Semester Five (13 Credit Hours)</b>				
EGR 275 Intro to Engineering/Computer Graphics	3	C	ENCP 102 Intro to Engineering II (counts toward ECIV 111 Intro to Engineering Graphics and Visualizations)	PR
THE 101 Introduction to Theater	3	C	Carolina Core AIU	CC-AIU
MAT 242 Differential Equations	4	C	MATH 242 Elem. Differential Equations	PR
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 (counts toward ECIV 220 Mechanics of Solids)	MR
Course Subject and Title	Credit Hours	Min. Grade	MTC Equivalent Course Option to take during summer or as transient student	UofSC Degree Applicability
<b>Semester Six (13 Credit Hours)</b>				
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
<b>Semester Seven (13 Credit Hours)</b>				
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
ECIV Laboratory Course	1	C		PR
<b>Semester Eight (15-18 Credit Hours)</b>				
ECIV 307 Professional Development for Civil Engineers	3	C		MR
ECIV Distribution Elective	3	C		PR
ESM Elective	3-4	C	ESM Elective (ex: BIO 105, BIO 101, BIO 102, BIO 225, ECE 221 or other)	PR
ESM Elective	3-4	C	ESM Elective (ex: BIO 105, BIO 101, BIO 102, BIO 225, ECE 221 or other)	PR

Basic Science Elective	3-4	C		PR
<b>Semester Nine (16-18 Credit Hours)</b>				
ECIV 470 Civil Engineering Design	4	C		MR/CC-INT
ECIV Distribution Elective	3	C		PR
ESM Elective	3	C	ESM Elective (ex: BIO 105, 101, BIO 102, BIO 225, ECE 221 or other)	PR
Other Elective (any ESM or ACCT 222, ECON 224, FINA 333, MGMT 371, MGSC 290, MKTG 350)	3-4	C	Other Elective (ex: BIO 105, 101, BIO 102, BIO 225, ECE 221, ACC 101 or other)	PR
Other Elective (any ESM or ACCT 222, ECON 224, FINA 333, MGMT 371, MGSC 290, MKTG 350)	3-4	C	Other Elective (ex: BIO 105, 101, BIO 102, BIO 225, ECE 221, ACC 101 or other)	PR
<b>Take during any semester (0-9 Credit Hours)</b>				
Carolina Core CMS	0-3	C	SPC 205 Public Speaking 102, etc.)	CC-CMS
Carolina Core GFL	0-6	C	GFL Transfer Course (ex: FRE 101+102, SPA 101+102)	CC-GFL

\* Students may place into and begin with MAT 140.

Approved December 2021