Direct Transfer Track: Associate in Applied Science in Engineering Fundamentals with a Concentration in Civil Engineering to Bachelor of Science in Engineering in Civil Engineering
Bulletin Year: 2025-2026

This course plan provides a recommended sequence for this major. For detailed degree requirements, please refer to the University of South Carolina Bulletin. Additionally, reach out to your academic advisor at Midlands Technical College for assistance in navigating coursework in your MTC program of study. Your University of South Carolina advisor will help with course selection and planning for upcoming semesters after transfer.

Course Subject and Title	Credit Hours	Min. Grade	USC Equivalent Course	USC Degree Applicability
Semester One (16 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 112 Precalculus	5	C	MATH 115 Precalculus	Pre-req/ Elective
CHM 110 College Chemistry I	4	C	CHEM 111 & 111L General Chemistry I & Lab	CC-SCI
COL 101 College Orientation	1		Not transferrable	Not Degree Applicable
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/VSR/FD
HIS 101 Western Civilization to 1689 or HIS 102 Western Civilization Post 1689 or HIS 201 American History: Disc to 1877 or HIS 202 American History: 1877 to Present	3	C	HIST 101 Eur Civ: Ancient- Mid 17th Cent or HIST 102 Eur Civ: From Mid-17th Cent or HIST 111 US History to 1865 or HIST 112 US History Since 1865	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 (16 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
Carolina Core CMS	3			CC-CMS
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

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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 GFL	0-6			CC-GFL

* Credit hours received for MAT 112 may reduce additional elective hours needed and Students may place into and begin with MAT 140.

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please 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.

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