



AS Civil Engineering

to

Bachelor of Science in Civil Engineering

Guided Pathway

Effective for 2021-2022 Catalog



First Year - Collin College

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
ENGL 1301 - Composition I	ENGL 2311 - Tech and Bus Writing
ENGR 1201 - Intro to Engineering	HIST 1302 - US History II
Creative Arts (see list below)	MATH 2414 - Calculus II
HIST 1301 - US History I	PHYS 2425 - University Physics I
MATH 2413 - Calculus I	ENGR 1304 - Engineering Graphics
15 credit hours	17 credit hours
SUMMER SEMESTER	
ECON 2301 - Principles of Macroeconomics (pre-requisite required by UT Tyler)	3 credit hours

Second Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
ENGR 2301 Engineering Mechanics I	CHEM 1409 General Chemistry for Engineering Majors
GOVT 2305 Federal Government	ENGR 2302 Engineering Mechanics II
MATH 2415 Calculus III	ENGR 2332 Mechanics of Materials
PHYS 2426 University Physics II	GOVT 2306 Texas Government
*Science Elective (See list below)	MATH 2320 Differential Equations
17 credit hours	16 credit hours

Associate of Science in Civil Engineering

Third Year – UT Tyler

Students must fulfill UT Tyler admissions requirements which can be found on the UT Tyler website.

FIRST SEMESTER	SECOND SEMESTER
CENG 3434 - CE Materials, Codes, and Specifications	CENG 3361 - Applied Eng Hydrology and Hydraulic Design
CENG 3310 - Fluid Mechanics and Hydraulics	CENG 3351 - Transportation Engineering Systems
MATH 3351 - Prob. And Stat for Eng. And Scientists	CENG 3371 - Intro to Environmental Engineering
CENG 4339 - CE Construction Management	CENG 3336 - Soil Mechanics and Foundation Design
SPCM 1315 - Fundamentals of Speech Comm	CENG 3325 - Structural Analysis
16 credit hours	15 credit hours

Fourth Year – UT Tyler

FIRST SEMESTER	SECOND SEMESTER
CENG 4412 - Reinforced Concrete and Steel Design	CENG 4315 - Senior Design II
*CENG 4351 - Traffic Engineering: Operations and Control	CENG 4341 - CE Ldrs, Pub Pol, Bus Pract, and Asset Mgmt
*CENG 4371 - Environmental Engineering Design	PHIL 2306 - Introduction to Ethics
*CENG 4381 - Foundation Design	CENG Approved Tech Elective 1
CENG 4115 - Senior Design I	CENG Approved Tech Elective 2
ENGR 4109 - Senior Seminar	
ENGR 4009 - FE Exam Preparation	
15 credit hours	15 credit hours

*Students may choose all 3 or pick 2 of 3 and substitute a CENG approved elective

Collin Options

Bachelor of Science in Civil Engineering

Contact your advisor at UT Tyler for information about applying for your Bachelor's degree.

*Science Elective (required by UT Tyler) – choose one from: **PHYS** 1403, 1404, **GEOL** 1403, 1404

Creative Arts - choose one from: **ARTS** 1301, 1303, 1304, 1313, **DANC** 2303, **DRAM** 1310, 2361, 2362, 2366, **MUSI** 1306, 1307, 1310