



Bachelor of Science in Chemical Engineering
Guided Pathway

Effective beginning with the 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	MATH 2414 - Calculus II
MATH 2413 - Calculus I	PHYS 2425 - University Physics I
CHEM 1409 - General Chemistry for Engineering Majors	CHEM 1412 - General Chemistry II
HIST 1301 - US History I	GOVT 2306 - Texas Government
16 credit hours	18 credit hours
SUMMER I	SUMMER II
SPCH 1315 - Fundamentals of Speech Communication	ECON 2301 - Principles of Macroeconomics
GOVT 2305 - Federal Government	Creative Arts (see list below)

Second Year - Collin College/UT Tyler (concurrent enrollment)

FIRST SEMESTER	SECOND SEMESTER
ENGR 2301 - Engineering Mechanics I	ENGR 2302 - Engineering Mechanics II
MATH 2415 - Calculus III	MATH 2320 - Differential Equations
PHYS 2426 - University Physics II	CHEM 2424 - Organic Chemistry II
CHEM 2423 - Organic Chemistry I	HIST 1302 - US History II
UT Tyler	UT Tyler
CHEN 2310 - Introduction to Chemical Engineering	CHEN 3301 - Chemical Engineering Thermodynamics I
18 credit hours	16 credit hours
SUMMER SEMESTER (Collin College)	
PHIL 2306 - Introduction to Ethics (core & program requirement at UTT)	3 credit hours

AS in General Studies - Chemical Engineering Emphasis

Third Year – UT Tyler

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

FIRST SEMESTER	SECOND SEMESTER
MENG 3310 - Fluid Mechanics	CHEM 3352 - Physical Chemistry
CHEN 3302 - Chemical Engineering Thermodynamics II	CHEM 3153 - Physical Chemistry Lab
CHEM 3310 - Analytical Chemistry	MENG 3316 - Heat Transfer
CHEM 3111 - Analytical Chemistry Lab	CHEN 3320 - Mass Transfer
CHEN 3310 - Chem Engineering Materials	CHEN Approved Elective
13 credit hours	13 credit hours

Fourth Year – UT Tyler

FIRST SEMESTER	SECOND SEMESTER
CHEN 4310 - Separation Processes	CHEN 4340 - Reactor Design
CHEN 4320 - Chemical Engineering Lab I	CHEN 4350 - Plant Design
CHEN 4330 - Process Safety	CHEN 4360 - Chemical Engineering Lab II
CHEN Approved Elective	
ENGR 4109 - Senior Seminar	
16 credit hours	9 credit hours

Bachelor of Science in Chemical Engineering

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

Collin College Options

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