



AS Mechanical Engineering
to



Bachelor of Science in Mechanical 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
GOVT 2306 - Texas Government	ENGR 1201 - Introduction to Engineering
Creative Arts (see list below)	HIST 1302 - US History II
MATH 2413 - Calculus I	MATH 2414 - Calculus II
HIST 1301 - US History I	PHYS 2425 - University Physics I
16 credit hours	16 credit hours
SUMMER SEMESTER	
ECON 2301 - Principles of Macroeconomics (pre-requisite required by UT Tyler)	3 credit hours

Second Year - Collin College

Apply to UT Tyler a full semester before you plan to transfer, providing a copy of this pathway document is recommended.

FIRST SEMESTER	SECOND SEMESTER
ENGR 2301 - Engineering Mechanics I	CHEM 1409 - Gen Chem for Eng Majors
GOVT 2305 - Federal Government	ENGR 2332 - Mechanics of Materials
MATH 2415 - Calculus III	ENGR 2305 - Electrical Circuits I
PHYS 2426 - University Physics II	MATH 2320 - Differential Equations
ENGR 1304 - Engineering Graphics	ENGR 2302 - Engineering Mechanics II
17 credit hours	16 credit hours

Associate of Science in Mechanical 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
MENG 3210 - Exp Meas and Techniques	MATH 3351 - Prob. And Stat for Eng. And Scientists
MENG 3303 - Dynamics of Machinery	MENG 3211 - Thermal-Fluids Laboratory
MENG 3310 - Fluid Mechanics	MENG 3309 - Mechanical Systems Design
MENG 3319 - Mat Sci and Manufacturing	MENG 3316 - Heat Transfer
MENG 3401 - Thermodynamics	SPCM 1315 - Fundamentals of Speech Communication
EENG 2301 - Programming Languages for Design	Technical Elective
18 credit hours	17 credit hours

Fourth Year – UT Tyler

FIRST SEMESTER	SECOND SEMESTER
MENG 4215 - Senior Capstone Design I	MENG 4216 - Senior Capstone Design II
MENG 4312 - System Dynamics and Control	MENG 4326 - Finite Element Analysis
Technical Elective	Technical Elective
Technical Elective	Technical Elective
MATH 3203 - Matrix Methods in Engineering	PHIL 2306 - Introduction to Ethics
13 credit hours	14 credit hours

Bachelor of Science in Mechanical 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