



AS Electrical Engineering to



Bachelor of Science in Electrical 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 2305 - Federal Government	HIST 1302 - US History II
COSC 1420 - C Programming	MATH 2414 - Calculus II
MATH 2413 - Calculus I	PHYS 2425 - University Physics I
HIST 1301 - US History I	Creative Arts (see list below)
17 credit hours	17 credit hours

FIRST SEMESTER	SECOND SEMESTER
GOVT 2306 - Texas Government	Language, Philosophy, and Culture (see list below)
3 credit hours	3 credit hours

Second Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
ENGR 1201 - Introduction to Engineering	CHEM 1409 - Gen Chem for Eng Majors
MATH 2415 - Calculus III	GOVT 2306 - Texas Government
PHYS 2426 - University Physics II	ENGR 2405 - Electrical Circuits I
ENGR 2301 - Engineering Mechanics I	MATH 2320 - Differential Equations
COSC 1437 - Programming Fundamentals II	ECON 2301 - Principles of Macroeconomics
17 credit hours	17 credit hours

Associate of Science in Electrical 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
MATH 3351 - Prob. And Stat for Eng. And Scientists	EENG 3307 - Microprocessors and Embedded Systems
EENG 3303 - Electromagnetic Fields	EENG 4308 - Automatic Control Systems
EENG 3305 - Linear Circuit Analysis II	EENG 4311 - Signals and Systems
EENG 3306 - Electronic Circuit Analysis I	EENG 4309 - Electronic Circuits Analysis II
EENG 3106 - Electronic Circuit Analysis I Lab	EENG 4109 - Electronic Circuits Analysis II Lab
EENG 3302 - Digital Systems Design	EENG 2301 - Programming Languages for Design
16 credit hours	16 credit hours

Fourth Year – UT Tyler

FIRST SEMESTER	SECOND SEMESTER
EENG 4115 - Senior Design I	EENG 4315 - Senior Design II
EENG 4110 - Electric Power Systems Lab	Approved 4000 Elective
EENG 4310 - Electric Power Systems	Approved 4000 Elective
EENG 4312 - Communications Theory	MATH 3203 - Matrix Methods
ENGR 4109 - Senior Seminar	SPCM 1315 - Fundamentals of Speech Communication
Approved 4000 Elective	
12 credit hours	17 credit hours

Bachelor of Science in Electrical Engineering

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

Collin College Options

Language, Philosophy, & Culture - choose one from: **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321

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