



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