



**AS Electrical Engineering**  
**To**  
**Bachelor of Science in Electrical Engineering**  
 Guided Pathway  
 Effective beginning with the 2021-2022 catalog



**First Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
• ENGL 1301 - Composition I	• ENGL 2311 - Technical & Business Writing
• MATH 2413 - Calculus I	• PHYS 2425 - University Physics I
• Creative Arts (see list below)	• MATH 2414 - Calculus II
• HIST 1301 - US History I	• HIST 1302 - US History II
CHEM 1409 - Chemistry for Engineering Majors	ENGR 1201 - Introduction to Engineering
17 credit hours	17 credit hours

**Second Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
• MATH 2415 - Calculus III	• MATH 2320 - Differential Equations
• PHYS 2426 - University Physics II	ENGR 2305 - Electrical Circuits 1 + ENGR 2105 Lab
• GOVT 2305 - Federal Government	• GOVT 2306 - Texas Government
• Social/Behavioral Sciences (see list below)	MATH 2318 - Linear Algebra
COSC 1420 - C Programming	• Language, Philosophy, & Culture (see list below)
17 credit hours	16 credit hours

**AS Electrical Engineering Field of Study**

Contact your advisor at Collin College for information about applying for your associate degree.

**Third Year - University of North Texas**

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

FIRST SEMESTER	SECOND SEMESTER
EENG 2710 - Digital Logic Design	EENG 3410- Electromagnetics
EENG 2711 - Digital Logic Design Lab	EENG 3411- Electromagnetics Lab
EENG 2620 - Signals & Systems	EENG 3510 - Electronics I
EENG 2621 - Signals & Systems Lab	EENG 3511- Electronics I Lab
EENG 2920 - Analog Circuit Design	EENG 3710 - Computer Organization
MATH 3680 - Applied Stats	EENG 3910 - DSP System Design
14 credit hours	14 credit hours

**Fourth Year - University of North Texas**

FIRST SEMESTER	SECOND SEMESTER
EENG 3520 - Electronics II	EENG 4910 - Senior Design I
EENG 3810 - Communications Systems	EENG 4*** Elective
EENG 3811 - Communications Systems Lab	EENG 4*** Elective
EENG 3920 - Modern Comm. Systems Design	MGMT 3850 -Entrepreneurship
OPSM 3830 - Operations Management	
13 credit hours	12 credit hours

**Continued – Fifth Year**

## Fifth Year - University of North Texas

FIRST SEMESTER	
EENG 4990 - Senior Design II	
EENG 4*** Elective	
EENG 4*** Elective	
	9 credit hours

### *Bachelor of Science in Electrical Engineering*

Contact your advisor at [UNT](#) for information about applying for your Bachelor's degree.

#### **Collin Options:**

Language, Philosophy, & Culture – ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321

Creative Arts – ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

Social/Behavioral Sciences – ANTH 2302, 2346, 2351, ECON 1301, 2301, 2302, PSYC 2301, SOCI 1301, 1306