

# A.S. Electrical Engineering 2021-2022

## EXPECTED DEGREE

**AS in Engineering - Electrical (60 sch)**

+ These courses are only offered in the semester indicated.

\*\* Please see faculty advisor or division chair to discuss requirements for your transfer university.

## PROGRAM DESCRIPTION

**Division Chair: Dr. Paula Wilhite (pwilhite@ntcc.edu) 903-434-8281**

**Faculty Advisor: Mark Ellermann (mellermann@ntcc.edu) 903-434-8297**

Students should consult the division chair or a faculty advisor early in their program of study. These are suggested courses for students who plan to transfer to a four-year college or university and major in electrical engineering. Transferability and specific requirements can be determined only by the receiving institution. Only college-level courses apply toward completion of this curriculum and the graduation requirements for the A.S. **CIP: 24.0102**

**Tuition Costs and Scholarship Information for this degree can be found at: <http://catalog.ntcc.edu>**

**Information for Financial Aid assistance can be found at: <http://catalog.ntcc.edu>**

## RECOMMENDED COURSE SELECTION

Fall 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2413 - Calculus I ^	4			^ Prerequisite for Calculus I (MATH 2413): Precalculus (MATH 2412) or equivalent or approval by division chair
CHEM 1409 - Gen Chem for Engineers	4			
ENGR 1201 - Intro to Engineering +	2			
ENGL 1301 - English Comp I	3			
<b>Semester Credit Hours</b>	<b>13</b>			
Spring 1st Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2414 - Calculus II	4			
PHYS 2425 - Advanced Physics I	4			
ENGL 2311 - Tech & Business Writing	3			
ECON 2301 - Prin of Macroeconomics	3			
<b>Semester Credit Hours</b>	<b>14</b>			
Summer 1st Year	SCH	Semester Completed	Grade	Notes for Students:
Core Course: History	3			
Core Course: History	3			
<b>Semester Credit Hours</b>	<b>6</b>			
Fall 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2415 - Calculus III	4			
MATH 2318 - Linear Algebra +	3			
PHYS 2426 - Advanced Physics II +	4			
COSC 1336 - Fund of Programming I	3			
<b>Semester Credit Hours</b>	<b>14</b>			
Spring 2nd Year	SCH	Semester Completed	Grade	Notes for Students:
MATH 2320 - Differential Equations +	3			DO THIS: Apply for graduation for AS Engineering
ENGR 2405 - Electrical Circuits +	4			
GOVT 2305 - Federal Government	3			
GOVT 2306 - Texas Government	3			
<b>Semester Credit Hours</b>	<b>13</b>			

**Total Required Associate of Science in Engineering (Electrical) = 60 Semester Credit Hours**

**CAREER OPPORTUNITIES** - All data listed below incorporate Northeast Texas jobs and entry wages found on <http://www.texaswages.com/WDAWages>

Career option #1	Electronics Tech	Career option #2	Electrical Engineer	Career option #3	Electrical Engineer
\$Starting Salary	\$42,400	\$Starting Salary	\$64,936	\$Starting Salary	\$92,000
w/Associate's Degree		w/Bachelor's Degree		w/Doctoral Degree	