

ELECTRICAL ENGINEERING TECHNOLOGY AAS (90 CREDITS)

CIP Code

15.0303

- 6 quarter AAS
- Maximum class size: 20
- Student to teacher ratio: 20:1
- Enrollment point: Fall, Spring
- This program is primarily offered online, hybrid, and web-enhanced with some face-to-face courses. Please see course details for more information.
- Students will use DMM/Oscilloscopes
- At the completion of degree, students will have earned Engineering Technology Certificate
- Students are responsible for purchasing a Digital Multimeter.
- Some employers require drug tests, and background checks

Required Courses

Electrical Engineering Technology AAS (90 Credits)

Technical Core (57 Credits)

ENGR& 111	Engineering Graphics I	5
ENGR& 112	Engineering Graphics II	5
ETRIC 251	Physics for Engineers with Lab	5
ETRIC 291	Practical Applications	1 to 13
ETRIC 296	Work-Based Learning Experience	2

ETRIC 120	CAD Design Applications	5
ETRIC 121	Technical Communications with Lab	5
ETRIC 260	Advanced CAD Operations	5
ETRIC 148	Electrical Systems with Simulation	5
ETRIC 249	Project Management	5
ETRIC 250	Senior Project	5
ETRIC 297	Work-Based Learning Seminar	13
ETRIC 128	Electrical Math	5
ETRIC 147	Code Applications	5
AMATH 170	Engineering Foundational Mathematics	5

ELECTIVES: Applied Learning (13 Credits, pick one)

ETRIC 291-No job

ETRIC 296-With job (390 hours of work over 1+ quarter)

ETRIC 291	Practical Applications	13
ETRIC 296	Work-Based Learning Experience	13

General Education (20 Credits) Requirements

Communications (5 Credits Required)

ENGL& 101	English Composition I	5
ENGL& 235	Technical Writing	5

Quantitative (10 **5** Credits Required)

MATH& 141	Precalculus I	5
MATH& 142	Precalculus II	5
MATH& 146	Statistics	5
MATH& 151	Calculus	5
MATH& 152	Calculus II	5
MATH& 107	Math in Society	5

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

~~Humanities/Social Sciences/Natural Sciences/Other (15 Credits Required)~~

~~5 Credits required from Social Sciences/Humanities~~

~~10 Credits required from Natural Sciences, Lab courses of two disciplines~~

BIOL& 160	General Biology
BIOL& 175	Human Biology with Lab
BIOL& 241	Human Anatomy and Physiology I
BIOL& 242	Human Anatomy and Physiology II
BIOL& 260	Microbiology

<u>CMST& 102</u>	Introduction to Mass Media
<u>CMST& 152</u>	Intercultural Communication
<u>CMST& 210</u>	Interpersonal Communication
<u>CMST& 220</u>	Public Speaking
<u>EGON& 201</u>	Microeconomics
<u>NUTR& 101</u>	Intro to Nutrition
<u>CHEM &121</u>	General Chemistry
<u>CHEM &131</u>	Introduction to Organic/Biochemistry
<u>EGON& 202</u>	Macroeconomics
<u>HUM &101</u>	Introduction to Humanities
<u>PHYS &114</u>	Introductory Physics I (Algebra based Physics)
<u>PHYS &221</u>	Engineering Physics I w/LAB
<u>PHYS &222</u>	Engineering Physics II w/LAB
<u>PHYS &223</u>	Engineering Physics III w/LAB
<u>POLS &101</u>	Introduction to Political Science
<u>PSYC &100</u>	General Psychology
<u>PSYC &200</u>	Lifespan Psychology
<u>SOC &101</u>	Introduction to Sociology

Humanities/Social Sciences/Other (5 Credits Required)

5 Credits required from Social Sciences/Humanities

<u>CMST& 102</u>	Introduction to Mass Media	5
<u>CMST& 152</u>	Intercultural Communication	5
<u>CMST& 210</u>	Interpersonal Communication	5
<u>CMST& 220</u>	Public Speaking	5
<u>CMST& 230</u>	Small Group Communications	5
<u>CMST& 240</u>	Culture & Diversity in Health Care	5
<u>HUM &101</u>	Introduction to Humanities	5
<u>POLS &101</u>	Introduction to Political Science	5
<u>PSYC &100</u>	General Psychology	5
<u>PSYC &200</u>	Lifespan Psychology	5
<u>SOC &101</u>	Introduction to Sociology	5

Natural Sciences (5 Credits Required)

5 Credits required from Natural Sciences

<u>PHYS &114</u>	Introductory Physics I (Algebra based Physics)	5
<u>PHYS &221</u>	Engineering Physics I w/LAB	5