

# 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)

|                               |   |         |
|-------------------------------|---|---------|
| <a href="#">ENGR&amp; 111</a> | Engineering Graphics I                    | 5       |
| <a href="#">ENGR&amp; 112</a> | Engineering Graphics II                   | 5       |
| <a href="#">ETRIC 251</a>     | Physics for Engineers with Lab            | 5       |
| <a href="#">ETRIC 291</a>     | Practical Applications                    | 1 to 13 |
| <a href="#">ETRIC 296</a>     | <del>Work Based Learning Experience</del> | 2       |

|                           |                                      |   |
|---------------------------|--------------------------------------|---|
| <a href="#">ETRIC 120</a> | CAD Design Applications              | 5 |
| <a href="#">ETRIC 121</a> | Technical Communications with Lab    | 5 |
| <a href="#">ETRIC 260</a> | Advanced CAD Operations              | 5 |
| <a href="#">ETRIC 148</a> | Electrical Systems with Simulation   | 5 |
| <a href="#">ETRIC 249</a> | Project Management                   | 5 |
| <a href="#">ETRIC 250</a> | Senior Project                       | 5 |
| <a href="#">ETRIC 297</a> | Work-Based Learning Seminar          | 2 |
| <a href="#">ETRIC 128</a> | Electrical Math                      | 5 |
| <a href="#">ETRIC 147</a> | Code Applications                    | 5 |
| <a href="#">AMATH 170</a> | 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)

|                           |                                |         |
|---------------------------|--------------------------------|---------|
| <a href="#">ETRIC 291</a> | Practical Applications         | 13      |
| <a href="#">ETRIC 296</a> | Work-Based Learning Experience | 1 to 13 |

General Education (20 Credits) Requirements

## Communications (5 Credits Required)

|                               |                       |   |
|-------------------------------|-----------------------|---|
| <a href="#">ENGL&amp; 101</a> | English Composition I | 5 |
| <a href="#">ENGL&amp; 235</a> | Technical Writing     | 5 |

## Quantitative (10 **5** Credits Required)

|                               |                 |   |
|-------------------------------|-----------------|---|
| <a href="#">MATH&amp; 141</a> | Precalculus I   | 5 |
| <a href="#">MATH&amp; 142</a> | Precalculus II  | 5 |
| <a href="#">MATH&amp; 146</a> | Statistics      | 5 |
| <a href="#">MATH&amp; 151</a> | Calculus        | 5 |
| <a href="#">MATH&amp; 152</a> | Calculus II     | 5 |
| <a href="#">MATH&amp; 107</a> | 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~~

|                               |                                 |
|-------------------------------|---------------------------------|
| <a href="#">BIOL&amp; 160</a> | General Biology                 |
| <a href="#">BIOL&amp; 175</a> | Human Biology with Lab          |
| <a href="#">BIOL&amp; 241</a> | Human Anatomy and Physiology I  |
| <a href="#">BIOL&amp; 242</a> | Human Anatomy and Physiology II |
| <a href="#">BIOL&amp; 260</a> | Microbiology                    |

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

## Humanities/Social Sciences/Other (5 Credits Required)

5 Credits required from Social Sciences/Humanities

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

## Natural Sciences (5 Credits Required)

### 5 Credits required from Natural Sciences

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