



# Electrical Engineering Technologies

## Associate in Applied Science

### Four Semester Pathway Academic Year 2025-2026

| Semester 1              | Requirement                                                               | Recommended | Prerequisites                                                       | Corequisites            | Credits   | My Plan |
|-------------------------|---------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|-------------------------|-----------|---------|
| FIGS 100                | Student Success Elective - Industrial Technology & Transportation Pathway |             |                                                                     |                         | 1         |         |
| MATH 140                | College Algebra                                                           |             | MATH 040                                                            |                         | 3         |         |
| MATH 146                | Introduction to Trigonometry (8 week course)                              |             | MATH 040                                                            | MATH 140                | 1         |         |
| ELEC 101                | Introduction to Electrical Engineering Technologies                       |             |                                                                     |                         | 3         |         |
| ELEC 110                | DC Circuits                                                               |             | ELEC Program Acceptance                                             | MATH 140 & MATH 146     | 3         |         |
| ELEC 175                | Wiring Practices                                                          |             | ELEC Program Acceptance                                             |                         | 3         |         |
| <b>Semester 2</b>       |                                                                           |             |                                                                     |                         |           |         |
| ELEC 120                | Digital Electronics                                                       |             | ELEC Program Acceptance                                             |                         | 3         |         |
| ELEC 130                | Programmable Logic Controllers                                            |             | ELEC Program Acceptance                                             |                         | 3         |         |
| ELEC 140                | AC Circuits                                                               |             | ELEC 101, ELEC 110 with a grade of C or better, MATH 140 & MATH 146 |                         | 3         |         |
| ENGL 100                | English Composition                                                       |             | ENGL 080                                                            |                         | 3         |         |
| PHYS 150                | College Physics I with Lab                                                |             | MATH 140 & MATH 146                                                 |                         | 4         |         |
| <b>Semester 3</b>       |                                                                           |             |                                                                     |                         |           |         |
| AEDD 105                | CAD Graphics                                                              |             | MATH 040                                                            |                         | 3         |         |
| ELEC 170                | Three-Phase Circuits                                                      |             | ELEC 140 w/grade of C or better                                     |                         | 3         |         |
| ELEC 215                | Electrical Machinery                                                      |             | ELEC 140                                                            | ELEC 170                | 3         |         |
| ELEC 230                | Electronics I                                                             |             | ELEC 140 with a grade of C or better                                |                         | 3         |         |
| ENGL 115 OR<br>ENGL 117 | Introduction to Literature<br>Introduction to Professional Writing        |             | ENGL 100 or ENGL 101                                                |                         | 3         |         |
| ELEC 240                | Fluid Power Systems                                                       |             | ELEC Program Acceptance                                             |                         | 3         |         |
| <b>Semester 4</b>       |                                                                           |             |                                                                     |                         |           |         |
| ELEC 235                | Electronics II                                                            |             | ELEC 230                                                            |                         | 3         |         |
| ELEC 250                | National Electrical Code                                                  |             | ELEC 170, ELEC 215                                                  |                         | 3         |         |
| ELEC 260                | Motor Controls and Automation                                             |             | ELEC 215                                                            |                         | 3         |         |
| ELEC 265                | Renewable Energy Resources                                                |             | ELEC 110                                                            |                         | 3         |         |
|                         | Social Science Elective                                                   |             | See course prerequisites                                            | See course corequisites | 3         |         |
|                         | Fine Arts or Humanities Elective                                          |             | See course prerequisites                                            | See course corequisites | 3         |         |
|                         |                                                                           |             |                                                                     | <b>Total Credits</b>    | <b>66</b> |         |

[Advice on Choosing Electives](#)



Electrical Engineering Technologies

| General Education Requirements |                                                                           |                                                                  |                     |         |     |
|--------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|---------------------|---------|-----|
| COURSE CODE                    | COURSE TITLE                                                              | PREREQUISITES                                                    | COREQUISITES        | CREDITS | MET |
| ENGL 100                       | English Composition                                                       | ENGL 080                                                         |                     | 3       |     |
| ENGL 115 OR<br>ENGL117         | Introduction to Literature<br>Introduction to Professional Writing        | ENGL 100 or ENGL 101                                             |                     | 3       |     |
| FIGS 100                       | Student Success Elective - Industrial Technology & Transportation Pathway |                                                                  |                     | 1       |     |
| MATH 140                       | College Algebra                                                           | MATH 040                                                         |                     | 3       |     |
| MATH 146                       | Introduction to Trigonometry (8 week course)                              | MATH 040                                                         | MATH 140            | 1       |     |
| PHYS 150                       | College Physics I with Lab                                                | MATH 140                                                         |                     | 4       |     |
|                                | Fine Arts or Humanities Elective                                          |                                                                  |                     | 3       |     |
|                                | Social Science Elective                                                   |                                                                  |                     | 3       |     |
| Major Required Courses         |                                                                           |                                                                  |                     |         |     |
| COURSE CODE                    | COURSE TITLE                                                              | PREREQUISITES                                                    | COREQUISITES        | CREDITS | MET |
| AEDD 105                       | CAD Graphics                                                              | MATH 040                                                         |                     | 3       |     |
| ELEC 101                       | Intro to Electrical Engineering Technologies                              |                                                                  |                     | 3       |     |
| ELEC 110                       | DC Circuits                                                               | ELEC program acceptance                                          | MATH 140 & MATH 146 | 3       |     |
| ELEC 120                       | Digital Electronics                                                       | ELEC program acceptance                                          |                     | 3       |     |
| ELEC 130                       | Programmable Logic Controllers                                            | ELEC program acceptance                                          |                     | 3       |     |
| ELEC 140                       | AC Circuits                                                               | ELEC 101, ELEC 110 w/grade of "C" or better, MATH 140 & MATH 146 |                     | 3       |     |
| ELEC 170                       | Three-Phase Circuits                                                      | ELEC 140 w/grade of C or better                                  |                     | 3       |     |
| ELEC 175                       | Wiring Practices                                                          | ELEC program acceptance                                          |                     | 3       |     |
| ELEC 215                       | Electrical Machinery                                                      | ELEC 140                                                         | ELEC 170            | 3       |     |
| ELEC 230                       | Electronics I                                                             | ELEC 140 w/grade of C or better                                  |                     | 3       |     |
| ELEC 235                       | Electronics II                                                            | ELEC 230                                                         |                     | 3       |     |
| ELEC 240                       | Fluid Power Systems                                                       | ELEC program acceptance                                          |                     | 3       |     |
| ELEC 250                       | National Electrical Code                                                  | ELEC 170, ELEC 215                                               |                     | 3       |     |
| ELEC 260                       | Motor Controls and Automation                                             | ELEC 215                                                         |                     | 3       |     |
| ELEC 265                       | Renewable Energy Resources                                                | ELEC 110                                                         |                     | 3       |     |