



ASSOCIATE OF APPLIED SCIENCE

**ELECTRICAL/ELECTRONIC ENGINEERING
TECHNOLOGY**

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

2024-25 Catalog

Effective Summer 2024

4100

Business, Engineering, and Information Technologies Division

Engineering Technology Department

| TECHNICAL Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
|---------------------------|---|-----------|---|---------------------|
| EET120 | DC Circuit Analysis | 4 | Pre-Co-MTH125 or Pre-Co-MTH135 | |
| EET122 | AC Circuit Analysis | 4 | (Pre-Co-MTH130 or Pre-Co-MTH135) and EET120 | |
| EET123 | Electronic Devices and Circuits | 4 | EET120 and Pre-Co-EET122 | |
| EET126 | Electrical Machines | 4 | Pre-Co-EET122 | |
| EET227 | PLCs and Industrial Controls I | 3 | EET120 or EST230 | |
| EET228 | PLCs and Industrial Controls II | 3 | EET227 | |
| EET232 | Industrial Electronics | 4 | EET123 and EET227 | |
| AIT139 | Introduction to Robotics | 2 | | |
| AIT220 | Industrial Robotics | 4 | | |
| EET233 | Technical Project – Electrical/Electronic | 1 | EET123 and EET227 | |
| Total | | 33 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> | |
| CSE122 | Programming Logic and Problem Solving^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| CSE233 | C++ Programming | 3 | CSE122 | |
| DET125 | Basic AutoCAD | 3 | | |
| EET128 | NEC and Electrical Systems Design | 2 | EET122 | |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency | |
| ENG221 | Technical Report Writing | 3 | ENG124 | |
| MTH135 | Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i> | 5 | MTH025 or Proficiency | |
| PHY121 | College Physics I with Algebra (lab)^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency | |
| | <i>Select one (1) Arts & Humanities Elective from the list below.¹</i> | 3 | <i>Check for prerequisites</i> | |
| Total | | 30 | | |
| TOTAL CREDIT HOURS | | 63 | | |

See back page for footnotes

Students completing this degree may be eligible to also receive a Electrical/Electronic Engineering Technology – Industrial Controls Career Enhancement Certificate (4409), an Industrial Technology – Automation and Robotics Specialist Career Enhancement Certificate (4554), an Electrical/Electronic Engineering Technology – Electrical/Electronic Troubleshooting Career Enhancement Certificate (4408), and an Electrical/Electronic Engineering Technology – Industrial Electricity and Electronics Career Enhancement Certificate (4410).

FULL-TIME STUDENT ADVISING NOTESAcademic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

| <u>First Semester</u> | | <u>Credit Hours</u> | <u>Pre- and Co-requisites</u> |
|------------------------|---|---------------------|---|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| CSE122 | Programming Logic and Problem Solving^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| EET120 | DC Circuit Analysis | 4 | Pre-Co-MTH125 or Pre-Co-MTH135 |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency |
| MTH135 | Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i> | <u>5</u> | MTH025 or Proficiency |
| | | 16 | |
| <u>Second Semester</u> | | | |
| EET122 | AC Circuit Analysis | 4 | (Pre-Co-MTH130 or Pre-Co-MTH135) and EET120 |
| CSE233 | C++ Programming | 3 | CSE122 |
| EET123 | Electronic Devices and Circuits | 4 | EET120 and Pre-Co-EET122 |
| PHY121 | College Physics I with Algebra (lab)^ | <u>4</u> | MTH135 or (MTH125 and MTH130) or Proficiency |
| | | 15 | |
| <u>Third Semester</u> | | | |
| DET125 | Basic AutoCAD | 3 | |
| EET227 | PLCs and Industrial Controls I | 3 | EET120 or EST230 |
| ENG221 | Technical Report Writing | 3 | ENG124 |
| EET126 | Electrical Machines | 4 | Pre-Co-EET122 |
| | <i>Arts & Humanities Elective¹</i> | 3 | <i>Check for prerequisites</i> |
| AIT139 | Introduction to Robotics | <u>2</u> | |
| | | 18 | |
| <u>Fourth Semester</u> | | | |
| AIT220 | Industrial Robotics | 4 | |
| EET228 | PLCs and Industrial Controls II | 3 | EET227 |
| EET128 | NEC and Electrical Systems Design | 2 | EET122 |
| EET232 | Industrial Electronics | 4 | EET123 and EET227 |
| EET233 | Technical Project – Electrical/Electronic | <u>1</u> | EET123 and EET227 |
| | | 14 | |
| | TOTAL CREDITS | 63 | |

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122