

**Spring 2020**  
**Associate of Applied Science in Electrical/  
 Electronic Engineering Technology Degree**  
**Electomechanical Technology**



**General Requirements**

Students are responsible for adhering to all college and university requirements and policies as stated in the BGSU Undergraduate Catalog. Prerequisites shown below are for reference only.

**Communication**

WRIT 1120 and COMM are required. Based on placement scores, WRIT 1010 and/or WRIT 1110 may also be required.

| Hrs | Grade |  |
|-----|-------|--|
| 3   |       | WRIT 1110 Seminar in Academic Writing                |
| 3   |       | WRIT 1120 Seminar in Research Writing                |
| 3   |       | COMM 1020* Introduction to Communication <b>or</b>   |
|     |       | COMM 3060 Interpersonal Communication for Non-Majors |

**BG Perspective Curriculum**

Choose two (2) courses from the following areas, with no more than one from each section. Select courses from the list of approved BG Perspective courses in the BGSU Undergraduate Catalog

|       |       |   |
|-------|-------|---|
| _____ | _____ | BGP Elective (H or HI)                        |
| _____ | _____ | BGP Elective (S or SI) ECON 2000* recommended |
| _____ | _____ | BGP Elective (C)                              |
| _____ | _____ | BGP Elective (N) PHYS 2010*                   |

**Mathematics and Sciences**

MATH 1280 (or equivalent combinations). Based on placement tests, MATH 90 and/or MATH 95 may also be required. MATH 90 & MATH 95 do not count toward graduation

|   |  |  |
|---|--|--|
| 3 |  | MATH 90 Elementary Algebra                   |
| 3 |  | MATH 95 Intermediate Algebra                 |
| 3 |  | MATH 1210 College Algebra I <b>and</b>       |
| 3 |  | MATH 1220 College Algebra II (QL) <b>and</b> |
| 2 |  | MATH 1290 Trigonometry <b>OR</b>             |
| 5 |  | MATH 1200 College Algebra (QL) <b>and</b>    |
| 2 |  | MATH 1290 Trigonometry <b>OR</b>             |
| 5 |  | MATH 1280 Precalculus Mathematics (QL)       |

*Each student must complete a sufficient number of electives to earn a minimum of 62 semester hours. At least 15 credit hours must be BGSU courses immediately before graduation. Please check with your advisor for appropriate course selections.*

**Electronics Courses**

| Hrs | Grade |   |
|-----|-------|---|
| 3   |       | ECT 1910 Energy, Power, Instrumentation & Control |
| 3   |       | ECT 2400 Electric Circuits                        |
| 3   |       | ECT 2410 Electronic Circuits                      |
| 3   |       | ECT 2490 Digital Electronic Components & Systems  |

**Automation & Design Care**

|   |  |  |
|---|--|--|
| 3 |  | ECT 3100 Programmable Logic Controllers <b>or</b>  |
|   |  | ECT 2480 Industrial Equipment and Controls         |
| 3 |  | ECT 2470 Electrical Measurements & Instrumentation |
| 3 |  | ECT 3000 Electric Machinery and Controls           |
| 3 |  | ENGT 1010 Design & Engineering Graphics I          |
| 3 |  | ENGT 1100 Basic Computer-Aided Design              |
| 3 |  | ENGT 2200 Metallic Materials & Processes           |
| 3 |  | ENGT 2300 Fluid Power Transmission                 |
| 1 |  | MFG 1260 Basic Metrology                           |
| 3 |  | QS 2650 # Introduction to Lean Processes/Systems   |

**Applications Core**

Choose three (3) courses from those listed here.

|   |  |  |
|---|--|--|
| 3 |  | CS 1010* Introduction to Programming         |
| 3 |  | CS 2010 Intro to Object-Oriented Programming |
| 3 |  | CS 2170 Computer Organization                |
| 3 |  | CST 1810 Network and Internet Principles     |
| 3 |  | CST 2750 Microcomputer Systems               |
| 3 |  | IS 2000 Introduction to Information Systems  |
| 3 |  | ENVT 2700 Occupational Safety & Hygiene      |
| 3 |  | ENG 3880* Technical Writing                  |
| 3 |  | TECH 3020* Technology Systems in Societies   |
| 3 |  | STAT 2000*# Applied Statistics               |
| 3 |  | QS 3600*# Six Sigma Systems                  |

# Students wishing to obtain industrial green-belt certification must complete each of these three courses and receive a grade of B or better in each course.

\* Students planning to pursue a Bachelor of Science in Electromechanical Systems Technology must take these courses.