

ELECTRICAL AND INSTRUMENTATION

Associate in Applied Science Degree - AAS EIT

Program Locations: The Academy at Fairhope Airport and Thomasville Campuses

Length: Four Semesters

The Electrical and Instrumentation Technology program is designed to help students exit the program with hands-on skills and knowledge recognized by industry partners as the key competencies to succeed in the field of instrumentation technology.

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of Alabama Transfers state transfer and articulation reporting system.

| AREA I: Written Composition | | 3 Total Hours |
|---|---|---------------|
| ENG 101 – English Composition I | | 3 |
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| AREA II: Humanities and Fine Arts | | 3 Total Hours |
| Humanities and Fine Arts Elective: Choose one of the following | | _ |
| ART 100 – Art Appreciation | PHL 206 – Ethics and Society | 3 |
| ART 203 – Art History I | REL 100 – History of World Religions | |
| ART 204 – Art History II | REL 151 – Survey of the Old Testament | |
| HUM 101 – Introduction to Humanities I | REL 152 – Survey of the New Testament | |
| HUM 102 – Introduction to Humanities II | THR 120 – Theater Appreciation | |
| MUS 101 – Music Appreciation PHL 106 – Introduction to Philosophy | THR 126 – Introduction to Theater | |
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| AREA III: Natural Sciences and Mathematics | | 6 Total Hours |
| CIS 146 – Microcomputer Applications | | 3 |
| Choose one of the following: | | |
| MTH 100 – Intermediate College Algebra | | 3 |
| MTH 116 – Mathematical Applications | | |
| AREA IV: History, Social, and Behavioral Sciences | | 3 Total Hours |
| Choose one of the following: | | |
| ECO 231 – Principles of Macroeconomics | HIS 202 – United States History II | 3 |
| ECO 232 – Principles of Microeconomics | POL 200 – Introduction to Political Science | |
| GEO 100 – World Regional Geography | POL 211 – American National Government | |
| HIS 101 – Western Civilization I | PSY 200 – General Psychology | |
| HIS 102 – Western Civilization II | PSY 210 – Human Growth and Development | |
| HIS 121 – World History I | SOC 200 – Introduction to Sociology | |
| HIS 122 – World History II | SOC 210 – Social Problems | |
| HIS 201 – United States History I | | |

| AREA V: Pre-Professional, Major, and Elective Courses | | |
|--|---|-------|
| IET 114 – Basic Electricity | | 3 |
| IET 122 – Rotating Machinery and Controls | | 3 |
| IET 131 – Fluid Power Systems | | 3 |
| ILT 108 – Introduction to Instruments and Process Control | | 3 |
| ILT 114 – Instrumentation Operation and Calibration | | 3 |
| ILT 166 – Motors and Transformers I | | 3 |
| ILT 214 – Control and Troubleshooting Flow, Level, Temperature, Pressure and Level Processes | | 3 |
| INT 117 – Principles of Industrial Mechanics | | 3 |
| ELT 131 – Wiring I Commercial and Industrial | | 3 |
| ELT 212 – Motor Controls II | | 3 |
| ELT 231 – Introduction to Programmable Controllers | | 3 |
| ELT 232 – Advanced Programmable Controllers | | 3 |
| WKO 110 – NCCER Core | | 3 |
| ORI 101 – Orientation to College or WKO 107 – Workplace Skills Preparation | | 1 |
| ACR 111 – Principles of Refrigeration ACR 112 – HVACR Service Procedures ACR 119 – Fundamentals of Gas Heating Systems ACR 121 – Principles of Electricity for HVACR ACR 126 – Commercial Heating Systems ACR 148 – Heat Pump Systems I ACR 205 – System Sizing and Air Distribution ELT 233 – Applied Programmable Controls ILT 180 – Special Topics INT 106 – Elements of Industrial Mechanics | INT 127 – Principles of Industrial Pumps and Piping Systems INT 132 – Preventative and Predictive Maintenance INT 153 – Precision Machining Fundamentals I INT 161 – Blueprint Reading for Industrial Technicians INT 222 - Special Topics INT 232 – Manufacturing Plant Utilities INT 291 – Cooperative Education WKO 106 – Workplace Skills | 6 |
| Total Hours | | 61 SH |