



ELECTRICAL AND INSTRUMENTATION

Associate in Applied Science Degree – AAS EIT

Program Locations: The Academy at Fairhope Airport, Atmore, 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 STARS.

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

AREA V: Pre-Professional, Major, and Elective Courses		46 Total Hours
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
Electrical and Instrumentation AAS Electives: Choose two of the following.		
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 149 – Heat Pump Systems II 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 134 – Principles of Industrial Maintenance Welding and Metal Cutting Techniques INT 153 – Precision Machining Fundamentals I INT 161 – Blueprint Reading for Industrial Technicians INT 215 – Troubleshooting Techniques INT 222 - Special Topics INT 232 – Manufacturing Plant Utilities INT 291 – Cooperative Education WKO 106 – Workplace Skills	6
Total Hours		61 SH