



**MECHATRONICS**

**Associate in Applied Science Degree**

**Program Locations: Baldwin Preparatory Academy**

Length: Four Semesters

The Mechatronics 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 mechatronics.

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.

<b>AREA I: Written Composition</b>	<b>3 Total Hours</b>
ENG 101 – English Composition I	3
<b>AREA II: Humanities and Fine Arts</b>	<b>3 Total Hours</b>
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 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	3
<b>AREA III: Natural Sciences and Mathematics</b>	<b>6 Total Hours</b>
CIS 146 – Microcomputer Applications	3
Choose <b>one</b> of the following: MTH 100 – Intermediate College Algebra MTH 116 – Mathematical Applications	3
<b>AREA IV: History, Social, and Behavioral Sciences</b>	<b>3 Total Hours</b>
Choose <b>one</b> 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 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	3

<b>AREA V: Pre-Professional, Major, and Elective Courses</b>	<b>46 Total Hours</b>
ADM 101 – Precision Measurement	3
ADM 111 – Manufacturing Safety Practices	3
ELT 212 – Motor Controls II	3
ELT 231 – Introduction to Programmable Controllers	3
ELT 232 – Advanced Programmable Controllers	3
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 139 – Introduction to Robotic Programming	3
INT 117 – Principles of Industrial Mechanics	3
INT 127 – Principles of Industrial Pumps and Piping Systems	3
WKO 106 – Workplace Skills	3
WKO 110 – NCCER Core	3
ORI 101 – Orientation to College <b>or</b> WKO 107 – Workplace Skills Preparation	1
<b>Total Hours</b>	<b>61 SH</b>