

Advanced Manufacturing - Mechatronics (AAS-ADM)

Pending ACHE Approval

Program Locations: Baldwin Preparatory Academy (Dual Enrollment)

Career-Technical Division

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.

Subject: **Advanced Manufacturing Technology**

Type: A.A.S.

Semester One

Item #	Title	Credits
ENG 101	English Composition I	3
ADM 101	Precision Measurement	3
ADM 111	Manufacturing Safety Practices	3
IET 114	Basic Electricity	3
ILT 108	Introduction to Instruments and Process Control	3
	WKO 107 or ORI 101	1

Semester Two

Item #	Title	Credits
IET 131	Fluid Power Systems	3
INT 117	Principles of Industrial Mechanics	3
INT 127	Principles of Industrial Pumps and Piping Systems	3
MTH 116	Mathematical Applications	3
WKO 110	NCCER Core	3

Semester Three

Item #	Title	Credits
ELT 231	Introduction to Programmable Controllers	3
IET 122	Rotating Machinery and Controls	3
ILT 114	Instrumentation Operation and Calibration	3
ILT 139	Introduction to Robotic Programming	3
	History, Social Science, or Behavioral Science Elective	3

Complete Graduation Application

Complete the graduation application and begin the process of a review of your degree plan before your final semester.

Item #	Title	Credits
CIS 146	Computer Applications	3
ELT 212	Motor Controls II	3
ELT 232	Advanced Programmable Controllers	3
WKO 106	Workplace Skills	3
	Humanities and Fine Arts Elective (T)	3
	Total credits:	61