

Automotive Manufacturing Technology

Associate in Applied Science Degree (AAS)

At a Glance

Students are trained to be qualified for jobs as multi-craft technicians, to meet the needs of area industry in industrial automation and troubleshooting, including hydraulics and pneumatics, programmable logic controllers, robotics, and sensor technology, which help keep Alabama's industry competitive in the world market and provide students with highly paid and dependable jobs.

Students should consult with an advisor or the faculty teaching in their discipline with regard to the suggested sequence for scheduling of courses.

General Education & Elective Courses		CREDITS
CIS 146	Microcomputer Applications	3
ENG 101	English Composition I	3
Humanities and Fine Arts Elective*		3
MTH 100	Intermediate College Algebra	3
Natural Science/Mathematics Elective**		3
PSY 200	General Psychology	3
SPH 106	Fundamentals of Oral Communication	3
Total General Education & Elective Credit Hours		21

Automotive Manufacturing Technology Major Courses

		CREDITS
AUT 114	Introduction to Programmable Logic Controllers (ILT 194, INT 184)	3
AUT 116	Introduction to Robotics	3
AUT 130	Industrial Hydraulics and Pneumatics (ILT 169).....	3
AUT 212	Robot Operation and Programming	3
AUT 219	PLC Applications.....	3
AUT 232	Sensors Technology and Applications (ILT 165).....	3
AUT 251	Introduction to VFD and Servo Control	3
AUT 278	Robotic Programming and Welding (WDT 160).....	3
ILT 117	Principles of Construction Wiring	3
ILT 160	Direct Current Fundamentals.....	3
ILT 161	Alternating Current Fundamentals.....	3
ILT 209	Motor Controls I	3
WKO 131	CPT 1 MSSC	3
WKO 132	CPT 2 MSSC Quality Practices.....	3
WKO 133	CPT 3 MSSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness	3
Total Major Courses Credit Hours		48

Total Credit Hours.....69

Automation Technology Certification
Short-Term Certificate (STC)

While pursuing the Automotive Manufacturing Technology degree and upon successful completion of the courses identified below, the stackable Automation Technology Certification Short-Term Certificate will be awarded to students.

		CREDITS
AUT 114	Intro to Programmable Logic Controllers (ILT 194, INT 184)	3
AUT 116	Introduction to Robotics	3
AUT 212	Robot Operation and Programming	3
AUT 219	PLC Applications.....	3
AUT 232	Sensors Technology and Applications (ILT 165).....	3
AUT 278	Robotic Programming and Welding (WDT 160).....	3
Total Credit Hours.....		18

MSSC Certified Production Technician Certification
Short-Term Certificate (STC)

While pursuing the Automotive Manufacturing Technology degree and upon successful completion of the courses identified below and all proctored exams, the stackable MSSC Certified Production Technician Short-Term Certificate will be awarded to students.

Note: After successfully passing a proctored exam at the conclusion of each course, students will receive a certification for each course from the Manufacturing Skills Standards Council. After successfully completing all four courses and passing each of the proctored exams, students will receive credentials as a Certified Production Technician from the Manufacturing Skills Standards Council.

		CREDITS
WKO 131	CPT 1 MSSC	3
WKO 132	CPT 2 MSSC Quality Practices.....	3
WKO 133	CPT 3 MSSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness.....	3
Total Credit Hours.....		12