



Technical Career Paths

Technical career paths have been designed within the Associate in Applied Science (AAS) degree programs and the Associate in Occupational Technology (AOT) degree programs to focus on promising approaches to basic skills instruction and occupational training. The paths are clearly defined and build upon one another to lead to successively higher credentials and employment opportunities in growing occupations. The technical career paths emphasize assessment, academic and non-academic support, and strong connections to the labor market and employer needs. Faculty advisors will be able to assist students in selecting a technical career path and offer guidance to ensure students stay on track for completion.

Automotive Manufacturing Technology

Associate in Applied Science Degree (AAS)

At a Glance

In the Automotive Manufacturing Technology program, 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 regarding the suggested sequence for scheduling of courses.

General Education & Elective Courses		CREDITS
CIS 146	Computer Applications	3
ENG 101	English Composition I	3
Humanities and Fine Arts Elective*		3
MTH 100	Intermediate College Algebra OR Higher Level	3
Natural Science/Mathematics Elective*		3
History, Social, and Behavioral Elective*		3
SPH 106	Fundamentals of Oral Communication.....	3
*Refer to the Academic Division section of the College Catalog and Student Handbook for general education electives.		
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
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 Safety Course	3
WKO 132	CPT 2 MSSC Quality Practices	3
WKO 133	CPT 3 MSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness	3
	Total Major Courses Credit Hours	45

Total Credit Hours.....66

Automation Technology Certification Embedded Short-Term Certificate (STC)

The stackable Automation Technology Certification will be awarded to students at the completion of the Associate in Applied Science (AAS) degree in Automotive Manufacturing Technology.

		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
	Total Credit Hours.....	15

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

The stackable MSSC Certified Production Technician Certification will be awarded to students at the completion of the Associate in Applied Science (AAS) degree in Automotive Manufacturing Technology.

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 Safety Course	3
WKO 132	CPT 2 MSSC Quality Practices	3
WKO 133	CPT 3 MSSC Manufacturing Process and Production	3
WKO 134	CPT 4 MSSC Maintenance Awareness	3
	Total Credit Hours.....	12