

Automotive Manufacturing Technology Certificate

Advisors - Ayers Campus: Keith Tolbert, Electronics Building (256.835.5460) ktolbert@gadsdenstate.edu

East Broad Campus: Jack Mayfield, Industrial Automation Building (256.549.8637) jmayfield@gadsdenstate.edu

NOTICE(s): For the certificate in Automotive Manufacturing Technology, the student must complete at least 44 credit hours—at least 38 in technical courses and at least 6 in general education courses—all of which must be approved by the advisor. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed below. Admission Requirement: High school diploma or GED.

The courses in this program of study may not be offered every semester. It is important to consult with your advisor to determine course schedules to stay on track to graduate.

Area I – Written Composition

Item #	Title	Hours
ENG 101	English Composition I	3
	Sub-Total Credits	3

Area III – Natural Sciences and Mathematics

Item #	Title	Hours
	MTH 100: Intermediate College Algebra OR numerically higher	3
	Sub-Total Credits	3

Area V Required Technical Courses

Item #	Title	Hours
AUT 100	Introduction to Automotive Concepts	3
AUT 102	Lean Manufacturing and Industrial Safety	3
AUT 104	Blueprint Reading for Manufacturing	3
AUT 110	DC Fundamentals	3
AUT 111	AC Fundamentals	3
AUT 114	Introduction to Programmable Logic Controllers	3
AUT 139	Introduction to Robotic Programming	3
AUT 150	Introduction to Machine Shop I	3
ORI 101	Orientation to College	1
WKO 101	Workplace Skills Development I	1
	Sub-Total Credits	26

Additional Coursework

Students may choose the remaining 12 credits from the listed below.

Item #	Title	Hours
AUT 118	Introduction to Engineering Technology	3
AUT 130	Fundamentals of Industrial Hydraulics and Pneumatics	3
AUT 138	Principles of Industrial Mechanics	3
AUT 155	Metrology	3
AUT 234	Industrial Motor Controls I	3
AUT 291A	Automotive Cooperative Education	1
AUT 291B	Automotive Cooperative Education	1
AUT 291C	Automotive Cooperative Education	1
CIS 146	Computer Applications	3
INT 127	Principles of Industrial Pumps and Piping Systems	3
INT 180	Special Topics	2
MDT 105	Introduction to Computer-Aided Design (CAD)	3
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	32
		44