

# Automotive Manufacturing Technology Certificate

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

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

NOTICE(s): For the certificate in Automotive Manufacturing Technology, the student must complete at least 43 credit hours—at least 37 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
	Sub-Total Credits	25

## Additional Coursework

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

<b>Item #</b>	<b>Title</b>	<b>Hours</b>
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
CIS 146	Microcomputer Applications	3
DDT 104	Basic Computer Aided Drafting and Design	3
MDT 105	Introduction to Computer-Aided Design (CAD)	3
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	27
	<b>Total Credits</b>	<b>43</b>