

# Automotive Manufacturing Technology A.A.S.

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NOTICE(s): For the A.A.S. Degree in Automotive Manufacturing Technology, the student must complete a minimum of 76 credit hours—a minimum of 61 in technical courses and a minimum of 15 in general education courses. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Technical courses may vary to meet the student needs and to provide options. Admission Requirement: High school diploma or GED.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

\*\*Note: Humanities and Fine Arts disciplines include but are not limited to the following: Literature, Ethnic Studies, Art and Art History, Foreign Language Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater, and Dance.

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 II – Humanities and Fine Arts

Item #	Title	Hours
	Humanities/Fine Arts Elective	3
	Sub-Total Credits	3

## Area III – Natural Sciences and Mathematics

Item #	Title	Hours
INT 104	Principles of Technology	3
	MTH 100: Intermediate College Algebra OR numerically higher	3
	Sub-Total Credits	6

## Area IV – History, Social and Behavioral Sciences

<b>Item #</b>	<b>Title</b>	<b>Hours</b>
	History, Social and Behavioral Sciences Elective	3
	Sub-Total Credits	3

## Area V - Required Technical Courses

<b>Item #</b>	<b>Title</b>	<b>Hours</b>
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 118	Introduction to Engineering Technology	3
AUT 139	Introduction to Robotic Programming	3
ORI 101	Orientation to College	1
WKO 101	Workplace Skills Development I	1
	Sub-Total Credits	26

# Additional Coursework

Choose 35 credits from the listed options.

<b>Item #</b>	<b>Title</b>	<b>Hours</b>
AUT 106	Quality Control and Inspection Techniques	3
AUT 116	Introduction to Robotics	3
AUT 117	AC/DC Machines	3
AUT 121	Elements of Industrial Control	3
AUT 122	Elements of Industrial Control Lab	2
AUT 130	Fundamentals of Industrial Hydraulics and Pneumatics	3
AUT 138	Principles of Industrial Mechanics	3
AUT 142	Industrial Wiring	3
AUT 150	Introduction to Machine Shop I	3
AUT 151	Introduction to Machine Shop I Lab	3
AUT 155	Metrology	3
AUT 186	Principles of Industrial Maintenance Welding and Metal Cutting Techniques	3
AUT 193	Special Topics (Electrical/Electronic)	1
AUT 194	Special Topics (Electrical/Electronic)	2
AUT 221	Advanced Programmable Logic Controllers	3
AUT 230	Preventive and Predictive Maintenance	3
AUT 234	Industrial Motor Controls I	3
AUT 262	Computer Integrated Manufacturing	3
AUT 291A	Automotive Cooperative Education	1
AUT 291B	Automotive Cooperative Education	1
AUT 291C	Automotive Cooperative Education	1
AUT 292	Automotive Cooperative Education	2
AUT 293	Automotive Cooperative Education	3
CIS 146	Computer Applications	3
MDT 105	Introduction to Computer-Aided Design (CAD)	3
INT 127	Principles of Industrial Pumps and Piping Systems	3
INT 180	Special Topics	2
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	72
		<b>76</b>