

Automotive Manufacturing Technology

Automotive Manufacturing Technology is the field of study designed to prepare students for employment in automotive manufacturing and the industries that support automotive manufacturing. The Automotive Manufacturing Technology degree focuses on the skills needed for the high-tech processes associated with modern manufacturing. Upon graduation, students will have the skills and training needed to work in the automotive field. Topics include: Computer Aided Drafting, Electronics, Fluid Power, Automotive Fundamentals, Robotics, Programmable Logic Controllers, and others approved by an advisor. Upon completion of the required classes, the student will be awarded an Associates in Applied Science in Automotive Manufacturing Technology.

Check with your four-year institution for the transferability of courses in this program. This program is not designed to transfer to a four-year university.

Automotive Manufacturing Technology Degree (AAS 220)

Common Courses		(22 hours)
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Course	Title	Sem Hrs
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
SPH 107	Fundamentals of Public Speaking	3
PHY 115	Technical Physics	4
CIS 146	Microcomputer applications	3
	Humanities and Fine Arts Elective: (AHUM) (art, humanities, religion, theatre, music, philosophy, foreign language, literature)	3
	Social and Behavioral Science Elective: (ASOC) (anthropology, geography, history, economics, political science, sociology, psychology)	3

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Required Courses (26 hours)

Course	Title	Sem Hrs
AUT 100	Introduction to Automotive Concepts	3
AUT 102	Manufacturing Fundamentals	3
AUT 104(DDT114)	Blue Print Reading for Manufacturing	3
AUT 112(ELM200)	Principles of Industrial Electricity	3
AUT114(ATM211)	Programmable Logic Controllers I	3
AUT 116	Introduction to Robotics	4
AUT 120(ELM 215)	Industrial Controls	4
AUT 164(MET 190)	Mechanical Tools	
Electives (music choose minimum of 14 hours)		

Course	Title	Sem Hrs
AUT 130(ELM 210)	Fundamentals of Industrial Hydraulics and Pneumatics	3
AUT 161(ATM 281D)	Special Topics, Die Maintenance	3
AUT 166(DDT 115)	Blue Print Reading for Machinists	3
AUT 167	Geometric Dimensioning and Tolerancing	2
AUT 169 (MET 201)	Basic CAD	3
AUT 221(ATM 212)	Advanced Programmable Logic	

Control Applications & Design	3
AUT 230 Preventive and Predictive Maintenance	3
AUT 238 (ATM 220) Advanced Motor Drives	3
AUT 265 (MET 233) Materials	3
AUT 267 Quality Auditing	3
AUT 270(MET 202)Advanced CAD	3
AUT 272(MET 211)Advanced Solid Modeling	3
AUT 278 Robotic Programming and Welding	3