AUTOMOTIVE TECHNOLOGY, ASSOCIATE IN SCIENCE

The Associate in Science in Automotive Technology is designed to provide students with a solid foundation for technician positions in automotive dealerships, independent repair facilities, customizing shops, and other auto-related industries. The program also offers technical training for automotive professionals who seek to upgrade their technical skills and knowledge.

Learning Outcomes

Upon successful completion of the program, students will be able to:

- Perform service, diagnosis, and repair operations on modern automobiles.
- Practice professional habits required for entry-level employment and advancement in trades associated with automotive maintenance and repair.

Associate in Science Degree Major Requirements

Code	Title	Units
Required Core		
AUTO 100	Introduction to Automotive Technology	4
AUTO 101	Engine Repair	4
AUTO 102	Basic Automotive Electricity and Electronics	4
AUTO 103	Engine Performance	4.5
AUTO 104	Automotive Electrics	2.5
AUTO 105	Automotive Electrical Circuits	2.5
AUTO 106	Automotive Brake Systems and Safety Inspection	4
AUTO 107	Automatic Transmissions and Transaxle	4
AUTO 108	Manual Transmissions and Drivetrains	4
AUTO 111	Automotive Steering and Suspension	4
AUTO 161	Supervised Automotive Trade Experience I	2-4
or COOP 99	Career-Focused Work Experience	
AUTO 162	Heating, Ventilation, and Air Conditioning Trade Experience	2
TOTAL MAJOR UNITS		**41.5-43.5**
Additional Requirements		**20**
Complete Competency Requirements, general education pattern (MPC General Education, CSU General Education, or IGETC), and electives, if needed, for a total of 60 degree-applicable units.		
Total Units		**61.5-63.5**

Note: COOP 99 may be offered for 0.5-4.0 units. 2.0 Units of COOP 99 are required to satisfy the work experience certificate requirement.

Please refer to the graduation requirements section of the Catalog for information about degree and certificate requirements including Reading and Writing, Mathematics, Information Competency, and General Education requirements.

The model sequence of coursework below is one pathway for students to complete the program. The information below is not an official educational plan. An MPC Counselor can assist you with creating a personalized education plan based on your academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling and up-to-date program requirements.

Suggested 2-Year Course Sequence

Year 1		
Fall		**Units**
ENGL 1A	College Composition	3
AUTO 100	Introduction to Automotive Technology	4
AUTO 102	Basic Automotive Electricity and Electronics	4
AUTO 104	Automotive Electrics	2.5
AUTO 162	Heating, Ventilation, and Air Conditioning Trade Experience	2
	Units	**15.5**
Spring		
LIBR 50	Introduction to Library and Research Skills	1
MPC GE Area C		3
AUTO 105	Automotive Electrical Circuits	2.5
AUTO 106	Automotive Brake Systems and Safety Inspection	4
AUTO 111	Automotive Steering and Suspension	4
	Units	**14.5**
Year 2		
Fall		
MPC GE Area A2 (MATH 10 or MATH 16 Recommended)		3
MPC GE Area B & Lab		4
AUTO 101	Engine Repair	4
AUTO 103	Engine Performance	4.5
	Units	**15.5**
Spring		
MPC GE Area D		3
MPC GE Area F		3
AUTO 107	Automatic Transmissions and Transaxle	4
AUTO 108	Manual Transmissions and Drivetrains	4
AUTO 161 or COOP 99	Supervised Automotive Trade Experience I or Career-Focused Work Experience	2-4
	Units	**16-18**
	Total Units	**61.5-63.5**

MPC "Ready to Work" Career Education programs offer students the opportunity to gain knowledge and skills needed for employment and job advancement.

All students should consult with a Counselor to discuss career pathways, for support with career exploration and planning, and to create a personalized education plan to help them meet their academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling services provided by MPC and to connect with a Counselor.

Additional resources are available through MPC's Career & Transfer Resource Center (CTRC). The CTRC offers career resources, workshops, guidance and referrals. Visit the CTRC for support finding online career information and other resources to explore majors, occupations, and employment information.