

## AUTOMOTIVE TECHNOLOGY

This program is certified by NATEF (National Automotive Technicians Education Foundation).

### Program Overview

The automotive industry is more technically advanced than ever before. Automobiles are filled with modern technology that requires exceptional technical skills. MCC's Automotive Technology Program can lead students to the lifelong successful career they have been searching for. The program is NATEF Certified and provides state-of-the-art automotive labs. The hands-on training will ensure students' success and prepare them for the automotive industry and many related transportation and maintenance fields.

The automotive program has been a part of MCC for over 30 years, and all of the classes are taught by ASE Master Certified Technicians. Our Automotive Technology degree and certificate programs prepare students for a variety of employment opportunities including automotive repair technicians, lead technicians and service advisors. These positions can be with dealerships, independent auto shops, specialty shops or local and county municipalities. The management degree can lead to positions such as qualified parts and service directors and automotive consultants. The courses in this program are arranged in sequence

that provides optimal learning opportunities. Students are encouraged to follow the integrated program sequence.

The MCC automotive program maintains a dress code for all students for reasons of safety as well as meeting industry standards for professionalism. Students are required to follow the dress code and practice all rules of safety.

For more information, visit: [www.mchenry.edu/automotive](http://www.mchenry.edu/automotive)

### Program Prerequisites

In order to enroll in AMT 120, 140, 170 and 180, the following is required:

Credit earned for AMT 100, Principles of Automotive Technology, with a minimum grade of C or equivalent.

**NOTE:** Proficiency tests for AMT 100 and other AMT courses may be taken by appointment. Call (815) 455-8941 for more information.

**The primary purpose of an Associate in Applied Science degree is to prepare students for employment. The AAS degree is not designed specifically for transfer; however, there are opportunities to apply some coursework or the whole degree to a bachelor's degree program. For more information, see an academic advisor and the department chair.**

## Requirements for the Associate in Applied Science (AAS) in Automotive Technology

Curriculum: OCC 280	Credit Hours		
<b>General Education Core</b>			
<b>Communications</b> 2 courses	6	(3) ENG 105 Technical Communications (3) ENG 151 Composition I	(3) ENG 152 Composition II (3) SPE 151 Intro to Speech
<b>Humanities &amp; Fine Arts, Social &amp; Behavioral Sciences</b> Select 1 course from Humanities & Fine Arts <b>and</b> 1 course from Social & Behavioral Sciences	6	<b>Humanities &amp; Fine Arts</b> <i>Select 1 course from the following prefixes or course numbers:</i> ART (does not include: 166, 190, 290, 299) (3) AET 141 Interior Design I (3) AET 142 History of Interiors (3) AET 241 Interior Design II (3) DGM 168 Computer Art I ENG (does not include: 088-099, 105, 151, 152) FRE GER (3) GRA 167 Graphic Design I (3) JRN 152 Intro to Mass Communication (3) JRN 155 Newswriting (3) JRN 165 Intro to Broadcasting (3) JRN 170 Feature Writing (3) JRN 180 Intro to Film MUS (does not include: 100, 104, 111, 160, 161, 162, 201-218) PHI	<b>Humanities &amp; Fine Arts cont'd.</b> (4) SPA 151 Elementary Spanish I (4) SPA 252 Intermediate Spanish II (4) SPA 152 Elementary Spanish II (4) SPA 251 Intermediate Spanish I (3) SPE 155 Interpersonal Communication (3) SPE 161 Small Group Communication (3) SPE 251 Intercultural Communication (3) SPE 265 Fundamentals of Oral Interpretation THE  <b>Social &amp; Behavioral Sciences</b> <i>Select 1 course from the following prefixes or course numbers:</i> ANT ECO (3) GEG 202 Geog. of the Developed World (3) GEG 203 Geog. of the Developing World (3) GEG 204 Economic Geography HIS PLT PSY SOC

<b>Mathematics, Physical or Life Sciences, Technology</b> Select 1 course from Mathematics, Physical or Life Sciences, <u>or</u> Technology	3	<b>Mathematics</b> MAT (100 level or above)  <b>Physical or Life Sciences</b> <i>Select from the following prefixes or course numbers:</i> BIO CHM EAS (4) GEG 107 Physical Geography (3) GEG 123 Energy Resources (3) GEG 220 The Global Environment	<b>Physical or Life Sciences cont'd.</b> GEL (3) HFE 250 Nutrition for Wellness (4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science PHY  <b>Technology</b> (3) GRA 100 Adobe Design Suite (3) PRG 105 Programming Logic (3) WEB 105 Web Fundamentals
<b>Program Core</b>	48-50	(4) AMT 100 Principles of Automotive Tech (3) AMT 110 Automotive Customer Service (4) AMT 120 Automotive Electricity Fundamentals (4) AMT 140 Automotive Engine Tech (4) AMT 160 Automotive Electronics Fundamentals (4) AMT 170 Manual Drive Train & Axles (4) AMT 180 Auto-Steering-Chassis  Suspension (4) AMT 200 Computerized Automotive Systems	(4) AMT 220 Automotive Brake Systems (4) AMT 240 Automotive Climate Control Systems (1-3) AMT 250 Automotive Cooperative Internship (4) AMT 260 Advanced Diagnostics & Driveability (4) AMT 270 Automatic Transmissions & Transaxles
<b>Program Electives</b>	2-4	(4) AMT 230 High Performance Engine Fundamentals (4) AMT 265 Alternate Fuel Vehicles (3) AMT 299 Automotive Independent Study	(3) CDM 110 Computer Literacy for Windows (3) EMS 105 First Responder Emergency Aid (2) HFE 151 First Aid & CPR
<b>Total Degree Credits</b>	65-69		

**Other AAS Graduation Requirements:**

- 2.0 minimum cumulative GPA at MCC upon completion of program
- 15 semester hours of program-specific coursework taken at MCC
- Completion of graduation application
- Completion of end-of-program assessment as directed by this department

## Requirements for the Associate in Applied Science (AAS) in Automotive Technology, Management Option

Curriculum: OCC 285	Credit Hours		
<b>General Education Core</b>			
<b>Communications</b> 2 courses	6	(3) ENG 105 Technical Communications (3) ENG 151 Composition I	(3) ENG 152 Composition II (3) SPE 151 Intro to Speech
<b>Humanities &amp; Fine Arts, Social &amp; Behavioral Sciences</b> Select 1 course from Humanities & Fine Arts <b>and</b> 1 course from Social & Behavioral Sciences	6	<b>Humanities &amp; Fine Arts</b> <i>Select 1 course from the following prefixes or course numbers:</i> ART (does not include: 166, 190, 290, 299) (3) AET 141 Interior Design I (3) AET 142 History of Interiors (3) AET 241 Interior Design II (3) DGM 168 Computer Art I ENG (does not include: 088-099, 105, 151, 152) FRE GER (3) GRA 167 Graphic Design I (3) JRN 152 Intro to Mass Communication (3) JRN 155 Newswriting (3) JRN 165 Intro to Broadcasting (3) JRN 170 Feature Writing (3) JRN 180 Intro to Film MUS (does not include: 100, 104, 111, 160, 161, 162, 201-218) PHI	<b>Humanities &amp; Fine Arts cont'd.</b> (4) SPA 151 Elementary Spanish I (4) SPA 252 Intermediate Spanish II (4) SPA 152 Elementary Spanish II (4) SPA 251 Intermediate Spanish I (3) SPE 155 Interpersonal Communication (3) SPE 161 Small Group Communication (3) SPE 251 Intercultural Communication (3) SPE 265 Fundamentals of Oral Interpretation THE  <b>Social &amp; Behavioral Sciences</b> <i>Select 1 course from the following prefixes or course numbers:</i> ANT ECO (3) GEG 202 Geog. of the Developed World (3) GEG 203 Geog. of the Developing World (3) GEG 204 Economic Geography HIS PLT PSY SOC
<b>Mathematics, Physical or Life Sciences, Technology</b> Select 1 course from Mathematics, Physical or Life Sciences, or Technology	3	<b>Mathematics</b> MAT (100 level or above)  <b>Physical or Life Sciences</b> <i>Select from the following prefixes or course numbers:</i> BIO CHM EAS (4) GEG 107 Physical Geography (3) GEG 123 Energy Resources (3) GEG 220 The Global Environment	<b>Physical or Life Sciences cont'd.</b> GEL (3) HFE 250 Nutrition for Wellness (4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science PHY  <b>Technology</b> (3) GRA 100 Adobe Design Suite (3) PRG 105 Programming Logic (3) WEB 105 Web Fundamentals
<b>Program Core</b>	48-50	(4) AMT 100 Principles of Automotive Tech (3) AMT 110 Automotive Customer Service (4) AMT 120 Automotive Electricity Fundamentals (4) AMT 140 Automotive Engine Tech (4) AMT 160 Automotive Electronics Fundamentals (4) AMT 170 Manual Drive Train & Axles (4) AMT 180 Auto-Steering-Chassis Suspension	(4) AMT 200 Computerized Automotive Systems (4) AMT 220 Automotive Brake Systems (4) AMT 240 Automotive Climate Control Systems (1-3) AMT 250 Automotive Cooperative Internship (4) AMT 260 Advanced Diagnostics & Driveability (4) AMT 270 Automatic Transmissions & Transaxles
<b>Program Management Electives</b>	6	(3) ACC 151 Financial Accounting (3) BUS 220 Human Relations & Teambuilding (3) CDM 110 Computer Literacy for Windows	(3) IMT/MGT 110 Supervisory Responsibility (3) MGT 150 Principles of Management (3) MKT 110 Principles of Marketing (3) MKT 130 Professional Selling
<b>Total Degree Credits</b>	69-71		

For more information, visit: [www.mchenry.edu/automanager](http://www.mchenry.edu/automanager)

**Other AAS Graduation Requirements:**

- 2.0 minimum cumulative GPA at MCC upon completion of program
- 15 semester hours of program-specific coursework taken at MCC
- Completion of graduation application
- Completion of end-of-program assessment as directed by this department

## AUTOMOTIVE MAINTENANCE TECHNICIAN CERTIFICATES

The Automotive Electrical Certificate is the first part of the Automotive Maintenance Certificate program. Students train for entry-level positions in the automotive electrical field. This includes but is not limited to battery, alternator, and starter service as well as automotive accessory installation and repair. The certificate is a 12 credit hour program.

The Automotive Chassis Certificate is the second part of the Automotive Maintenance Certificate program. Students train for entry-level positions in the automotive

chassis maintenance field. This includes but is not limited to oil changes, tire service, steering and suspension service, brake service and wheel alignments. This certificate is a 12 credit hour program.

MCC's Automotive Electrical and Automotive Chassis Certificates allow students to complete a technical education program, join the workforce, and return to school later to complete the Advanced Automotive Technician Certificate, a 45-47 credit hour program, or an Associate in Applied Science degree.

### Requirements for Automotive Electrical Certificate

Curriculum: OCC 282	Credit Hours	
Program Core	12	(4) AMT 100 Principles of Automotive Technology (4) AMT 120 Automotive Electricity Fundamentals (4) AMT 160 Automotive Electronic Fundamentals
Total Certificate Credits	12	

For more information, visit: [www.mchenry.edu/electrical](http://www.mchenry.edu/electrical)

### Requirements for the Automotive Chassis Certificate

Curriculum: OCC 283	Credit Hours	
Program Core	12	(4) AMT 100 Principles of Automotive Tech. (4) AMT 180 Auto-Steering-Chassis Suspension (4) AMT 220 Automotive Brake Systems
Total Certificate Credits	12	

For more information, visit: [www.mchenry.edu/chassis](http://www.mchenry.edu/chassis)

### Requirements for the Automotive Maintenance Technician Certificate

Curriculum: OCC 281	Credit Hours	
Program Core	24	(4) AMT 100 Principles of Automotive Tech. (4) AMT 120 Automotive Electricity Fundamentals (4) AMT 140 Automotive Engine Tech. (4) AMT 160 Automotive Electronics Fundamentals (4) AMT 180 Auto-Steering-Chassis Suspension (4) AMT 220 Automotive Brake Systems
Total Certificate Credits	24	

For more information, visit: [www.mchenry.edu/autotech](http://www.mchenry.edu/autotech)

## Requirements for the Advanced Automotive Technician Certificate

Curriculum: OCC 286	Credit Hours		
<b>Program Core</b>	45-47	(4) AMT 100 Principles of Automotive Tech (4) AMT 120 Automotive Electricity Fundamentals (4) AMT 140 Automotive Engine Tech. (4) AMT 160 Automotive Electronics Fundamentals (4) AMT 170 Manual Drive Train & Axles (4) AMT 180 Auto Steering-Chassis Suspension	(4) AMT 200 Computerized Automotive Systems (4) AMT 220 Automotive Brake Systems (4) AMT 240 Automotive Climate Control Systems (1-3) AMT 250 Automotive Cooperative Internship (4) AMT 260 Advanced Diagnostics & Driveability (4) AMT 270 Automatic Transmissions & Transaxles
<b>Total Certificate Credits</b>	45-47		

For more information, visit: [www.mchenry.edu/automotivetech](http://www.mchenry.edu/automotivetech)

### **Other Certificate Graduation Requirements:**

- 2.0 minimum cumulative GPA at MCC upon completion of program
- For certificates of less than 12 credit hours, all required credits must be completed through MCC coursework. For all other certificates, one-half of the minimum credit hours required must be completed through MCC coursework.

- Completion of graduation application
- Completion of end-of-program assessment as directed by this department for OCC 286, Advanced Automotive Technician Certificate.

**For more information, contact the department chair: (815) 455-8941.**