

# AUTOMOTIVE - AUTOMOTIVE SERVICE TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE DEGREE

NMC Code 560

This program is designed for either the person with little or no prior experience or the skilled technician who needs to keep pace with current technology. Students may take the classes they need to update skills, pursue an Associate in Applied Science degree, which combines automotive technician classes with courses in the liberal arts and sciences, or work toward a Master Technician Certificate, which qualifies graduates to enter the workplace as entry-level state-certified technicians. Students may also choose from three specialized certificates: Hybrid Technology, Under Car Specialist or Electrical and Drivability Specialist. All eight state or ASE certifications must be passed to be awarded the AAS degree or Master Technician Certificate.

Day and evening classes allow technicians at every level to develop new skills at convenient times. The program is a series of modules, each designed to teach an individual system. This flexibility allows the more experienced technician to learn a specific system while the beginning technician can combine the modules for a complete course in automotive technology.

## Requirements

### Major Requirements

Course	Title	Credits
<b>General Education Requirements</b>		
ENG 111	English Composition	4
Select one of the following:		3-4
BUS 231	Professional Communications	
ENG 112	English Composition	
ENG 220	Technical Writing	
Any Group 1 Humanities course		3
Math Competency <sup>1</sup>		
Any Group 1 Science course with a lab		4
Any Group 1 Social Science course		3
<b>Occupational Specialty Requirements</b>		
AT 100	Automotive Service Basics <sup>2</sup>	3
AT 110	Automotive Brake Systems	5
AT 120	Automotive Electrical I <sup>2</sup>	5
AT 130	Engine Performance I	5
AT 140	Suspension and Steering	4
AT 150	Automatic Transmissions	6
AT 160	Engine Repair	6
AT 170	Heating and Air Conditioning	4
AT 180	Manual Drivetrain and Axles	6
AT 210	Hybrid Technology	5
AT 220	Automotive Electrical II	5

AT 230	Engine Performance II	4
<b>Total Credits</b>		<b>75-76</b>

- <sup>1</sup> Placement into MTH 111 (<https://catalog.nmc.edu/archives/2021-2022/search/?P=MTH%20111>) Intermediate Algebra **or** higher, **or** completion of MTH 23 (<https://catalog.nmc.edu/archives/2021-2022/search/?P=MTH%2023>) Beginning Algebra with a 2.0 or higher.
- <sup>2</sup> May be waived with appropriate work experience or education.

All eight state or ASE certifications must be passed to be awarded the AAS degree or Master Technician Certificate.

## Course Sequence Guide

Course	Title	Credits
<b>Year 1</b>		
<b>Fall</b>		
ENG 111	English Composition	4
AT 100	Automotive Service Basics <sup>1</sup>	3
AT 120	Automotive Electrical I (Fall only)	5
AT 180	Manual Drivetrain and Axles (Fall only)	6
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
AT 110	Automotive Brake Systems (Spring only)	5
AT 170	Heating and Air Conditioning (Spring only)	4
AT 220	Automotive Electrical II (Spring only)	5
<b>Credits</b>		<b>17-18</b>
<b>Summer</b>		
Any Group 1 Humanities course		3
Any Group 1 Social Sciences course		3
<b>Credits</b>		<b>6</b>
<b>Year 2</b>		
<b>Fall</b>		
Any Group 1 Science course with a lab		4
AT 130	Engine Performance I (Fall only)	5
AT 140	Suspension and Steering (Fall only)	4
AT 160	Engine Repair (Fall only)	6
<b>Credits</b>		<b>19</b>
<b>Spring</b>		
AT 150	Automatic Transmissions (Spring only)	6
AT 210	Hybrid Technology (Spring only)	5
AT 230	Engine Performance II (Spring only)	4
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>75-76</b>

- <sup>1</sup> May be waived with proof of appropriate work experience or education.

## **Program Notes**

- Mathematics: Placement in MTH 111 Intermediate Algebra or higher, or completion of MTH 23 Beginning Algebra.
- Must pass the related State or ASE certification tests for all of the required automotive courses.
- The responsibility for determining the transferability of this degree and courses to another institution is the sole responsibility of the student.