

AUTOMOTIVE TECHNOLOGY AAS: 307

Total Credits: 60

Catalog Edition: 2022-2023

Program Description

(R): 307

The ASE-NATEF Master Certified curriculum prepares students for employment in the automotive service industry as a repair technician. The curriculum also prepares students for seven ASE automobile technician certification exams: ASE A-1, A-4, A-5, A-6, A-8, and L-1. Students are exposed to the following areas of expertise: undercar (brakes, suspension, steering, and alignment), electrical (engine and chassis/body), engine performance (computer controlled fuel injection, ignition, and emission control systems), engine repair and HVAC (heating, ventilation, and air conditioning). All automotive (AUTO) classes consist of a lecture section and a lab (shop) section. Some AUTO classes also include a lab discussion section. Successful completion of this program, AUTO 130 and AUTO 220, leads to the award of an AAS degree and the powertrain specialist certificate. Successful completion of this program AUTO 130 and AUTO 220 also prepares students for all ASE automobile technician certification exams. This combination is designed for individuals seeking ASE a master automobile technician status.

For more information, please visit [https://](https://www.montgomerycollege.edu/academics/programs/automotive-technology/automotive-technology-aas-degree.html)

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To view the Advising Worksheet, please visit [https://](https://www.montgomerycollege.edu/documents/counseling-and-advising/advising-worksheets/current-catalog/307.pdf)

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Program Outcomes

Upon completion of this program a student will be able to:

- Identify and describe operation of automotive components and systems.
- Demonstrate safe and effective use of tools and equipment related to the automotive service and repair industry.
- Diagnose, service, and repair automotive systems and components.

Program Advisors

Rockville

- Prof. Michael Carretta, 240-567-4121,
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2022-2023

Program Advising Guide

An Academic Reference Tool for Students

AUTOMOTIVE TECHNOLOGY AAS: 307

Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

First Semester

ENGL 101 - Introduction to College Writing *3 semester hours* *

AUTO 101 - Introduction to Automotive Technology *3 semester hours*

AUTO 140 - Suspension and Steering *5 semester hours*

AUTO 161 - Automotive Electricity I *4 semester hours*

Third Semester

AUTO 111 - Engine Repair *4 semester hours*

AUTO 282 - Engine Performance II *4 semester hours*

CHEM 109 - Chemistry and Society *3 semester hours*
(NSLD)

AND

CHEM 109L - Chemistry and Society Laboratory *1 semester hour* (NSLD)

OR

Natural Sciences Distribution with Lab *4 semester hours*
(NSLD)

Mathematics Foundation *3 semester hours* (MATF)

Second Semester

English Foundation *3 semester hours* (ENGF)

AUTO 150 - Brakes *5 semester hours*

AUTO 180 - Basic Engine Performance *4 semester hours*

AUTO 262 - Battery/Starting/Charging *3 semester hours*

Fourth Semester

AUTO 200 - Auto Tech Practicum *1 semester hour*

AUTO 283 - Engine Performance III *4 semester hours*

Arts or Humanities Distribution *3 semester hours* (ARTD or HUMD)

Behavioral and Social Sciences Distribution *3 semester hours* (BSSD)

General Education Elective *4 semester hours* (GEEL)

Total Credit Hours: 60

* ENGL 101/ENGL 101A, if needed, for ENGL 102/ENGL 103, or elective.

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more, please visit <https://www.montgomerycollege.edu/transfer> or <http://artsys.usmd.edu>.

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

MC Student Clubs and Organizations: <https://www.montgomerycollege.edu/life-at-mc/student-life/>

Related Careers

Some require a Bachelor's degree.

Automotive Body and Related Repairer, Automotive Glass Installers and Repairer, Automotive Master Mechanic, Automotive Specialty Technician, First-Line Supervisor of Mechanics, Installers, and Repairers, Commercial and Industrial Equipment.

Career Services

Montgomery College offers a range of services to students and alumni to support the career planning process. To learn more, please visit <https://www.montgomerycollege.edu/career>

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area. Get started today on your road to a new future and give it a try. For more information, please visit <https://montgomerycollege.emsicc.com>

Notes: