**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, G-1, and L-1. Students are exposed to the following areas of expertise: undercar (brakes, suspension, steering, and alignment), electrical (engine and chassis/body), engineer 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 the AAS, in addition to AUTO 130 and AUTO 220, will lead to: the powertrain specialist certificate, the undercar specialist certificate, the engine performance specialist certificate, and it also prepares students for all ASE automobile technician certification exams. This combination is designed for individuals seeking ASE Master Automobile Technician status.

**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,
  [Michael.Carretta@montgomerycollege.edu](mailto:Michael.Carretta@montgomerycollege.edu)

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

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 161 - Automotive Electricity I 4 semester hours
AUTO 150 - Brakes 5 semester hours

Third Semester
AUTO 111 - Engine Repair 4 semester hours
AUTO 282 - Engine Performance II 4 semester hours
AUTO 140 - Suspension and Steering 5 semester hours
CHEM 105 - Chemistry and Society 3 semester hours (NSLD)

AND
CHEM 106 - Chemistry and Society Laboratory 1 semester hour (NSLD)

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

Second Semester
English Foundation 3 semester hours (ENGF)
Mathematics Foundation 3 semester hours (MATF)
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.

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: