

# POWERTRAIN SPECIALIST CERTIFICATE

Total Credits: 25

Catalog Edition: 2025-2026

## Program Description

(R): 161A

This certificate curriculum prepares individuals for employment in the automotive service industry as an engine, automatic trans/transaxle, manual trans/transaxle, and driveline repair technician. The curriculum also prepares individuals for ASE A-1 (Engine Repair), A-2 (Automatic Transmission/Transaxle), and A-3 (Manual Drive Train and Axles) automobile technician certification exams. Credits may be applied to the automotive technology AAS.

## Program Outcomes

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

- Obtain gainful employment in the automotive service and repair (or related) industry.
- Complete successfully the following National Institute for Automotive Service Excellence (ASE) automobile technician certification exams: A-1 (Engine Repair), A-2 (Automatic Transmission/Transaxle), and A-3 (Manual Drive Train and Axles).

## 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/powertrain-specialist-certificate.html>

2025-2026

# Program Advising Guide

An Academic Reference Tool for Students

161A

POWERTRAIN SPECIALIST  
CERTIFICATE: 161A

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## Program Requirements

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

### First Semester

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

AUTO 161 - Automotive Electricity I 4 *semester hours*

AUTO 180 - Basic Engine Performance 4 *semester hours*

### Second Semester

AUTO 111 - Engine Repair 4 *semester hours*

AUTO 130 - Manual Drive Train and Axles 5 *semester hours*

AUTO 220 - Automatic Transmission/Transaxles 5 *semester hours*

**Total Credit Hours: 25**

## 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: