

Automotive Technology (Certificate)

Curriculum Code: 1733

Semester Hours Required for Graduation: 32

PROGRAM GOALS:

This certificate is designed to provide entry-level skills for those students interested in immediate employment in this trade area. This program is the first year of the two-year degree option. Students have the opportunity to return at a later date to complete the second year of the degree program without losing credit for work successfully completed.

PROGRAM OUTCOMES:

- Interpret automotive contextual information to determine appropriate service actions.
- Collect and analyze printed and electronic vehicle data to correctly identify a system failure.
- Apply mathematical principles as they relate to the automotive industry.
- Evaluate digital oscilloscope graphing for the purpose of diagnostic philosophy.
- Interact effectively in a diverse automotive environment.
- Ability to work independently on e-learning modules and research papers to successful completion.
- Analyze data and formulate an effective repair philosophy.
- Clearly articulate in an automotive environment the specific diagnostic and repair process.

ACADEMIC PREPARATION:

12th-grade reading level is required (readiness to begin EN 101 – Composition). (A score of 80 or higher on the Placement Exam is required.)

Competency in mathematics fundamentals is required: Elementary Algebra is recommended.

LIBERAL ARTS REQUIREMENTS

0 Semester Hours

PROGRAM REQUIREMENTS

32 Semester Hours

AU 117	Gas and Diesel Engines	4
AU 128	Introduction to Automotive Repair	4
AU 129	Basic Heating, Ventilation and Air Conditioning	3
AU 130	Basic Steering, Suspension and Brakes	4
AU 132	Electricity and Electronics	4
AU 134	Engine Performance	6
AU 203	Advanced Automotive Operations	4
HE 201	First Aid and Safety	3
Grand Total		32

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SUGGESTED PROGRAM SEQUENCE

1st Semester

AU 128	Introduction to Automotive Repair	4
AU 129	Basic Heating, Ventilation and Air Conditioning	3
AU 130	Basic Steering, Suspension and Brakes	4
AU 132	Electricity and Electronics	4
Total		15

2nd Semester

AU 117	Gas and Diesel Engines	4
AU 134	Engine Performance	6
AU 203	Advanced Automotive Operations	4
HE 201	First Aid and Safety	3
Total		17

Career Opportunities: Dealership Technician, Independent and Fleet Repair, Service Equipment Representative, Parts Department Counterperson or Owner.