

Automotive Technology (A.O.S.)

Curriculum Code: 0525

Semester Hours Required for Graduation: 63

PROGRAM GOALS:

This program trains students in the repair of the modern automobile without focusing on one specific manufacturer. It is a general program, allowing graduates the opportunity to work at specific dealerships, independent repair centers, and/or fleet repair facilities.

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:

It is highly recommended that the following criteria be met to begin this program, and it is REQUIRED by the completion of 12 credits:

12th-grade reading 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

63 Semester Hours

AU 117	Gas and Diesel Engines	4
AU 128	Introduction to Automotive Repair	4
AU 129	Basic Heating, Ventilation and Air Conditioning (HVAC)	3
AU 130	Basic Steering, Suspension and Brakes	4
AU 131	Work Study I	2
AU 132	Electricity and Electronics	4
AU 134	Engine Performance	6
AU 203	Advanced Automotive Operations	4
AU 211	Manual Transmissions and Drivelines	4
AU 212	Automotive Diagnostics	4
AU 213	Automatic Transmissions and Transaxles	4
AU 215	Body Electrical and Electronics	3
AU 231	Work Study II	2
CI 101	Computer Essentials	3
EN 101	Composition	3
GN ELE	General Elective	3
HE 201	First Aid and Safety	3
MA 103	Business Mathematics	3

Grand Total **63**

Automotive Technology (A.O.S.) College Based

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

Summer

AU 131	Work Study I	2
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3rd Semester

AU 211	Manual Transmissions and Drivelines	4
AU 215	Body Electrical and Electronics	3
CI 101	Computer Essentials	3
EN 101	Composition	3
Total		13

4th Semester

AU 212	Automotive Diagnostics	4
AU 213	Automatic Transmissions and Transaxles	4
GN ELE	General Elective	3
MA 103	Business Mathematics	3
Total		14

Summer

AU 231	Work Study II	2
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Career Opportunities: Repair shop owner, automotive technician or component re-builder, fleet repair, parts department manager.