

Automotive Technology, AAS

2023-2024 Catalog

Award Granted Upon Completion: Associate in Applied Science in Automotive Technology

Credits/Contacts Required: **68/95**

Major code: 03/308

CIP Code: 470604

Description

The Automotive Technology program is designed to provide a combination of theoretical and practical skills to enable graduates to move rapidly in their chosen occupational field. Students learn to apply automotive operating principles and to diagnosis malfunctions in automotive systems. The program emphasizes the development of skills in service, repairs, and diagnostic procedures. With state regulations, certification of auto technicians is required by law. The program provides an opportunity for students to prepare themselves for technician certification exams. The automotive industry has experienced a great deal of growth during the past one hundred years. It continues to remain a young, healthy, and a growing industry. Great opportunities await alert students seeking a profitable and challenging career in the future. Year by year, as automotive systems become more sophisticated, there is an increasing demand for trained technicians who have the knowledge and skill to service the ever changing and improved products. Equipment: Students are required to provide their own safety equipment, work clothes, and basic hand tool set. A list is provided. Estimated cost is between \$1,000 and \$2,500. Special student discounts are available. A quality set of hand tools is required by the second week of the semester for each course of the program, co-op, and future employability. Note: A valid driver's license is required for co-op. Types of Jobs: Dealership service technicians, assistant or parts department manager, skilled jobs in automotive manufacturing, service equipment representative, rebuilding shop assembler, and repair shop operator.

General Education Requirements (Min 15 Credits)

- ENGL 101 - Rhetoric & Composition **Credit(s): 3**
- COMM 103 - Interpersonal Communication **Credit(s): 3 OR**
- COMM 104 - Public Speaking **Credit(s): 3 ***
- BUSN 177 - Mathematics of Business **Credit(s): 3 OR**
- MATH 106 - Technical Algebra & Trigonometry I **Credit(s): 4 ***
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credit(s): 3**
- XXXX xxx - General Education Elective **Credit(s): 2-3**

Requirements (Min 53 Credits) **

- AUTO 100 - Automotive Engines **Credit(s): 5**
- AUTO 110 - Automotive Brakes **Credit(s): 5**
- AUTO 120 - Automotive Electrical I **Credit(s): 5**
- AUTO 130 - Automotive Standard Transmissions & Power Trains **Credit(s): 4**
- AUTO 140 - Automotive Engine Performance I **Credit(s): 5**
- AUTO 150 - Automotive Suspension & Steering **Credit(s): 5**
- AUTO 200 - Automotive Engine Performance II **Credit(s): 5**
- AUTO 220 - Automotive Electrical II **Credit(s): 5**
- AUTO 230 - Automatic Transmissions **Credit(s): 5**
- AUTO 270 - Automotive HVAC Systems **Credit(s): 3**
- AUTO 272 - Automotive Service Co-op **Credit(s): 6 ****

Suggested Sequences Per Semester

First Semester

- AUTO 110 - Automotive Brakes **Credit(s): 5**
- AUTO 120 - Automotive Electrical I **Credit(s): 5**
- AUTO 100 - Automotive Engines **Credit(s): 5 OR**
- AUTO 130 - Automotive Standard Transmissions & Power Trains **Credit(s): 4**
- AUTO 140 - Automotive Engine Performance I **Credit(s): 5**

First Semester Total - Credit(s): 19-20 | Contacts: 30-32

Second Semester

- AUTO 150 - Automotive Suspension & Steering **Credit(s): 5**
- AUTO 200 - Automotive Engine Performance II **Credit(s): 5**
- AUTO 220 - Automotive Electrical II **Credit(s): 5**
- AUTO 230 - Automatic Transmissions **Credit(s): 5 OR**
- AUTO 270 - Automotive HVAC Systems **Credit(s): 3**

Second Semester Total - Credit(s): 18-20 | Contacts: 28-32

Third Semester

- AUTO 100 - Automotive Engines **Credit(s): 5 OR**
- AUTO 130 - Automotive Standard Transmissions & Power Trains **Credit(s): 4**
- BUSN 177 - Mathematics of Business **Credit(s): 3 OR**
- MATH 106 - Technical Algebra & Trigonometry I **Credit(s): 4 ***
- COMM 103 - Interpersonal Communication **Credit(s): 3 OR**
- COMM 104 - Public Speaking **Credit(s): 3**
- ENGL 101 - Rhetoric & Composition **Credit(s): 3**

Third Semester Total - Credit(s): 13-15 | Contacts: 15-18

Fourth Semester

- AUTO 230 - Automatic Transmissions **Credit(s): 5 OR**
- AUTO 270 - Automotive HVAC Systems **Credit(s): 3**
- AUTO 272 - Automotive Service Co-op **Credit(s): 6 ****
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credit(s): 3**
- XXXX xxx - General Education Elective **Credit(s): 3-4**

Fourth Semester Total: Credit(s): 15-18 | Contacts: 16-21

NOTES:

Internships and Co-ops may require that the student pass a criminal background check.

* Transfer students should choose MATH 110 or higher, and COMM 104.

** Qualified students may be placed into pre-approved training work sites that are compatible with their career objectives, geographic preferences, and qualifications. Students need to request instructor's approval and complete pre-registration documentation prior to final registration. Please see College Co-op Handbook.

A valid driver's license and the approved hand tool set are required for co-op.