

Automotive Technology

Associate of Applied Science Degree

2009-10 Academic Year

Major Code: 470604A

About the Program

The Automotive Technology degree program is designed for students seeking a career in today's automotive service industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern automobiles based upon Automotive Service Excellence (ASE) standards.

The design of the program places heavy emphasis upon actual hands-on work in the automotive labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of domestic and import automobiles. As the level of student skill develops, so does the difficulty of the repairs performed.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the placement test scores. In addition, students may also be required to enroll in classes that would increase their employability and success. Students must also meet certain program requirements in the first and third terms, and complete any prerequisites before advancing in the program.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department coordinator before being accepted toward core requirements. High school "2+2" Early College Credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification and industry experience may be substituted for some coursework in accordance with college policy and the department coordinator's approval.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade. Note: Effective summer term 2009, many general education courses went from three to four credits. The three-credit version of any art, writing, speech, humanities, or social science course will meet the same degree requirements as the new four-credit version. Students must still complete all required courses in this degree and at least 90 applicable credits to receive an associate degree.

Prerequisites

Course No.	Course Title	Credits
MTH60	Fundamentals of Algebra I or	
MTH63	Applied Technical Math (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR115	Introduction to Expository Writing (or designated placement test score as shown on current indicator chart)	3

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or	
PSY101	Psychology of Human Relations	3
CS120	Concepts in Computing I w/lab or higher level course (or documented computer proficiency ¹ and	
GS104	Physical Science w/lab or approved science elective or	
PH201	General Physics I w/lab and recitation	4-5
LIB127	Introduction to Library Research Methods	1
MTH65	Fundamentals of Algebra II or higher level math	4

Course No.	Course Title	Credits
9.167	Emergency First Aid	1
WR121	English Composition I	4
SP100	Basic Communication or	
SP111	Fundamentals of Public Speaking or	
SP218	Interpersonal Communication or	
WR122	English Composition II	3-4
TOTAL GENERAL EDUCATION CREDITS		20-22

First Year Technical Requirements

Course No.	Course Title	Credits
First Term		
AM122	Gasoline Engines Rebuild	7
AM120	Automotive Maintenance and Trades Practices ²	6
		13
Second Term		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
Third Term		
AM141	Manual Transmissions and Axles	6
AM151	Automotive Brake Systems	6
AM190	Automotive Repair Lab I ³	4
		16
Fourth Term		
AM270	Air Conditioning for Automotive Technicians	5
TOTAL FIRST YEAR CREDITS		48

Second Year Technical Requirements ⁴

Course No.	Course Title	Credits
Fifth Term		
AM160	Automotive Suspension and Steering Systems	6
AM232	Computerized Engine Management Systems	7
		13
Sixth Term		
AM233	Advanced Automotive Computer Systems	7
AM242	Automatic Transmissions and Transaxles	7
		14
Seventh Term		
AM210	Mechanical Careers Development or	
BA109	Ready, Set, Work: Techniques for Landing a Job	2-3
AM252	Advanced Diagnostic Lab	4
AM280	Cooperative Work Experience/Automotive or	
AM290	Automotive Repair Lab II ³	4
		10-11
TOTAL SECOND YEAR CREDITS		37-38
TOTAL PROGRAM CREDITS		105-108

(over)

Approved Program Electives

Course No.	Course Title	Credits
AM199	Selected Topic Workshop	1-8
AM280	Cooperative Work Experience/Automotive	1-16
AM290	Automotive Repair Lab II (if not taken in fourth term)	4
AM295	ASE Certification Preparation	1
GS104	Physical Science w/lab (if not taken as a general education requirement)	4

¹ Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Students with documented proficiency for CS120 must still take GS104, PH201 or other approved science elective.

² Course (or equivalent experience) required before advancing to other automotive courses.

³ Can be taken anytime during the program with permission of advisor.

⁴ Students must be making progress in completing general education requirements prior to entry into the second year.

For more information contact the Automotive Technology Department:

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This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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