

AUTOMOTIVE MANAGEMENT - ASSOCIATE OF APPLIED SCIENCE (AAS)

Description

The Automotive Management Associate of Applied Science prepares students to be an automotive technician and manager. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic, and network systems. Communication skills are also highly emphasized.

Program Learning Outcomes

Upon successful completion of the program, students will be able to:

1. Communication: Demonstrate oral and written strategies for directing automotive employees to perform duties correctly and to communicate with managerial staff members clearly.
2. Diagnose and Analyze Specialized Areas: Demonstrate how to use defined procedures to accurately assess problem solving in vehicle application issues, in personnel behaviors, and in addressing clients concerns in a manner that is most likely to lead to a successful outcome.
3. Professional: Model professional practices of the automotive industry and the needs of a service environment by demonstrating team attitude, displaying management behavior in regard to tasks, by behavior specific to management tasks related to the concern, and by keeping an orderly, task-based mindset of learned processes document.
4. Certification: Substantiate knowledge of up-to-date automotive and service industry practices by successfully completing Automotive Service Excellence and understanding of sophisticated drivability and emissions-related issues by obtaining Advanced Engine Performance Specialist Certification.

ENTRANCE REQUIREMENTS

Academic Entrance Requirements

Required:

- Students must complete the following five courses before enrolling in other AUT courses: AUT 101 Basic Electricity for Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, and AUT 115 College Success for Automotive Technology

Recommended:

- High school diploma or GED

ADDITIONAL PROGRAM COSTS (BEYOND STANDARD TUITION/FEES AND TEXTBOOKS)

Material Costs

- Automotive Service Excellence certification: up to \$450 total for all eight areas of testing
- Tools: \$1,500 to \$2,500

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200

Enrollment Fees

- All AUT courses AUT 260 Diesel Performance II and higher: \$200 course fee
- All AUT courses lower than AUT 260 Diesel Performance II: \$15 course fee

Course Requirements

Course	Title	Credits
Core Courses		
AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 115	College Success for Automotive Technology	2
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 216A	CWE Automotive A ¹	4
AUT 251	Automatic Transmissions - Rebuild	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions Theory	2
BA 101	Introduction to Business	4
BA 111	Applied Accounting I	3
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
BA 280	Co-op Work Experience Business	3
BA 250	Entrepreneurship	4
MFG 100	MFG Orientation	1
MFG 103	Welding Technology I	4

Other Courses

Choose one math course from the following:	3-4
BA 104	Business Math
MTH 102	Applied Technical Mathematics

Or one math course from the foundational requirements math list

BA 214 or WR 121Z	Business Communications Composition I	3-4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
HHP 252A	Fitness/First Aid	3
<u>Human Relations:</u>		3-4
Total Credits		100-107

¹ Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.

Advising Notes

Full-time students are advised to avoid working more than 15 hours per week due to a heavy course load. It is recommended that the Automotive Service Excellence certification test be taken as the student completes the program.

Performance Standards

- Academic Requirements:
 - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
 - All courses in the program must be completed with a grade of C or higher.

Sample Plan

First Year

		Credits
Fall		
AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Automotive Technology	2
Choose one math course from the following:		3-4
BA 104	Business Math	
MTH 102	Applied Technical Mathematics	
Or one math course from the foundational requirements math list		
Credits		14-15

Winter

AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 202	Manual Drive Trains I	3
AUT 205	Engine Performance I	2
BA 214 or WR 121Z	Business Communications or Composition I	3-4
Credits		15-16

Spring

AUT 104	Automotive Electric III	2
AUT 111	Computerized Engine Controls	5

AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 206	Engine Performance II	2
AUT 253	Automotive Air Conditioning	3
BA 101	Introduction to Business	4
Credits		18

Summer

AUT 216A	CWE Automotive A	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
Credits		4-8

Second Year

Fall

AUT 201	Automotive Engines	4
MFG 100	MFG Orientation	1
MFG 103	Welding Technology I	4
AUT 208	Automotive Brakes	3
BA 111	Applied Accounting I	3
Credits		15

Winter

AUT 105	Diesel Performance I	2
AUT 203	Manual Drive Trains II	3
AUT 256	Automatic Transmissions Theory	2
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
Credits		15

Spring

AUT 204	Steering and Suspension	3
AUT 251	Automatic Transmissions - Rebuild	3
BA 250	Entrepreneurship	4
HHP 252A	Fitness/First Aid	3
<u>Human Relations:</u>		3-4
Credits		16-17

Summer

BA 280	Co-op Work Experience Business	3
Credits		3
Total Credits		100-107