

COURSE DESCRIPTIONS

AUM 1201 Auto Performance I

A study of the gasoline engine combustion process, the function and service procedures of the fuel emission systems of the reciprocating piston engine. Standard carburetion, feedback carburetion and electronic fuel injection is included in this study.

AUM 1255 Auto Electrical I

An introduction to the cranking, charging, ignition, and electrical accessory systems of the automobile. Laboratory experience in testing and servicing automotive electrical systems.

AUM 1260 Engine performance II

In combination of the study of the internal combustion engine along with the study of emission control computer engine control inputs and fuel delivery systems, students will begin their study of more complex vehicle troubleshooting.

AUM 1265 Automotive Engines

Comprehensive study of design, theoretics of operations and service and rebuilding procedures of automotive engines.

AUM 1270 Automotive Air Conditioning

Principles of operation, maintenance, diagnosis, and repair procedures for air conditioning, heating, and current power accessories.

AUM 2215 Automotive Internship

Students will work a minimum of 10 hours per week in an automotive service technology environment.

AUM 2250 Shop Organization & Mgmt

Basic principles of automotive dealership, operation, organization, and management. Emphasis on leadership, responsibility, cooperation, and the necessity of good working human relationships with employers, employees and customers

AUM 2260 Drive Trains I

Theory and service operations for servicing propeller shafts with U-joints and constant velocity joints, clutches, both mechanical and hydraulic, transmissions, both conventional and transaxle, and differential, both conventional and limited slip.

AUM 2265 Drive Trains II

Automatic transmission construction, operation, diagnosis, and repair. Laboratory exercises consist of automatic transmission and transaxle testing and rebuilding.

AUM 2270 Automotive Brakes

A comprehensive study of standard, power, and disc brake systems; standard and power steering gear assemblies; and suspension with front and rear wheel alignment.

AUM 2275 Auto Electrical II

Theory of operation and troubleshooting automotive systems utilizing current diagnostic equipment and techniques.

AUM 2290 Steering & Suspension Syst

A comprehensive study of standard and power steering gear assemblies with emphasis on shop safety. Tire repair, tire construction, mounting, and balancing with two-wheel bearing service is also included.

Frontier Community College

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Fairfield, IL 62837

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An Illinois Eastern Community College

January 2009

Automotive Technology



Frontier Community College

2 Frontier Drive
Fairfield, IL 62837



618-842-3711 1-877-464-3687

An Illinois Eastern Community College

Automotive Technology Degree

AUM
D522

The Automotive Technology degree program will provide students with basic to advanced automotive skills. Students completing the degree can find employment as an auto mechanic, automotive service technician, shop foreman, etc. Jobs can be found in automotive dealerships, auto repair and maintenance shops, retailers and wholesalers of automotive parts, home and auto supply stores, and automotive small business owners. Upon degree completion, the student may transfer to selected senior institutions to complete a baccalaureate degree. These courses meet NATEF (National Automotive Technicians Education Foundation) standards for ASE certification.

FIRST SEMESTER

Course	Semester Hours
AUM 1255 Auto Electrical I	6
MTH 1201 Technical Mathematics <i>OR</i> 3-4	
MTH 1103 Liberal Arts Math	
AUM 2275 Auto Electrical II	6
AUM 1201 Engine Performance	<u>3</u>
Total Hours	18

SECOND SEMESTER

Course	Semester Hours
AUM 1265 Automotive Engines	5
AUM 1260 Engine Performance II	3
PHY 1111 Technical Physics I <i>OR</i>	4
PHY 1110 Survey of Phsyscis	
SPE 1111 Intrprsnl Communications <i>OR</i>	3
SPE 1101 Fund of Effective Speaking	
AUM 1270 Automotive Air Conditioning	<u>4</u>
Total Hours	19

THIRD SEMESTER

Course	Semester Hours
AUM 2290 Steering & Suspension Syst	6
ENG 1201 Communications <i>OR</i>	3
ENG 1111 Composition I	
EDU 1101 Cultural Diversity	3
AUM 2270 Automotive Brakes	<u>5</u>
Total Hours	17

FOURTH SEMESTER

Course	Semester Hours
AUM 2260 Drive Trains I	5
GEN 1107 Portfolio Development	2
AUM 2250 Shop Organization & Mgmt	3
AUM 2265 Drive Trains II	6
AUM 2215 Auto Service Internship	<u>3-6</u>
Total Hours	19

Total Credit Hours 73

Elective Courses

*AUM 1200 Automotive Topics 3
(Bridge course to Automotive Degree Program - may or may not count toward degree; requires permission of instructor.)



Tools for student use are provided at no charge.



The Automotive Technology program is housed in the Workforce Development Center.



Please send me information about the Automotive Technology Program.

Name _____

Address _____ Street _____ City _____ State _____ Zip _____

Telephone _____ Email _____ Year of Graduation _____

For additional information, please complete and detach. Mail to Frontier Community College: 2 Frontier Drive, Fairfield, IL 62837 or call FCC's Advisement Office at (618) 842-3711 or toll free at 1-877-464-3687.