

APPLIED ENGINEERING & TECHNOLOGIES

AUTOMOTIVE SYSTEMS TECHNOLOGY

Automotive Systems Technology Degree - A60160

The Automotive Systems Technology curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and increases student awareness of the challenges associated with this fast and ever-changing field.

Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains.

Upon completion of this curriculum, students should be prepared to take the ASE exam and be ready for full-time employment in dealerships and repair shops in the automotive service industry.

Introduction to Light Duty Diesel Certificate – C60160A

Automotive Powertrains Certificate – C60160B

Automotive Brakes and Suspension Certificate – C60160C

Automotive Introduction Certificate – C60160D

Program Sequence

First Semester

AUT 116	Engine Repair	3
AUT 116A	Engine Repair Lab	1
MAT 110	Math Measurement and Literacy	3
TRN 120	Basic Transportation Electricity	5
TRN 120A	Basic Transportation Electricity Lab	1
TRN 170	PC Skills for Transportation	2

Second Semester

AUT 123	Powertrain Diagnosis & Service	2
AUT 181	Engine Performance 1	3
AUT 181A	Engine Performance 1 Lab	1
AUT 231	Manual Transm/Transaxles/Drive Trains	3
ENG 110	Freshman Composition	3
HUM 121	The Nature of America	3

Third Semester

AUT 213	Automotive Servicing 2	2
TRN 110	Introduction to Transport Technology	2
TRN 140	Transportation Climate Control	2
TRN 140A	Transportation Climate Control Lab	2

Fourth Semester

AUT 141	Suspension & Steering Systems	3
AUT 141A	Suspension & Steering Lab	1
AUT 151	Brake Systems	3
AUT 151A	Brake Systems Lab	1

AUT 281	Advanced Engine Performance	3
PSY 118	Interpersonal Psychology	3

Completes Automotive Brakes and Suspension Certificate (C60160C): AUT 141, AUT 141A, AUT 151, AUT 151A, TRN 110, TRN 170

Fifth Semester

AUT 114	Safety and Emissions	2
AUT 183	Engine Performance II	4
AUT 221	Auto Transmissions/Transaxles	3
AUT 221A	Auto Transmissions/Transaxles Lab	1
COM 120	Intro to Interpersonal Communication	3

Completes Automotive Powertrains Certificate (C60160B): AUT 116, AUT 116A, AUT 123, AUT 221, AUT 221A, AUT 231

Completes Automotive Introduction Certificate (C60160D): AUT 114, AUT 123, AUT 151, AUT 151A, TRN 120, TRN 120A

Sixth Semester

Major Elective	2
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Complete Introduction to Light Duty Diesel Certificate (C60160A): AUT 181, AUT 181A, HET 134, TRN 120, TRN 120A

Major Electives

(Select 2 hours from the following courses):

HET 134	Diesel Fuel and Power System	3
WBL 111	Work-Based Learning I	1
WBL 112	Work-Based Learning I	2
WBL 121	Work-Based Learning II	1

Graduation Requirements..... 67 Credit Hours