

Second Semester – Summer

*AUT 252 Advanced Automatic Transmission 4

Total 4

* Prerequisite AUT 152

Automotive Brakes and Alignment Specialist

Certificate in Applied Science

Credit Requirements: 10 Semester Credit Hours

The Automotive Brakes and Alignment Specialist program provides instruction in the theory, diagnosis and repair of automobile steering and braking systems. Graduates of this program should be able to service and repair the hydraulic, vacuum and mechanical components of automobile braking systems, and to diagnose, adjust and repair components of manual and power assist steering systems. Graduates with the required work experience should be prepared for the ASE certification tests in Brakes and Suspension and Steering.

Admission into this program requires a valid driver's license and qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Spring

AUT 122 Suspension and Alignment 4

Total 4

Second Semester – Summer

AUT 111 Brakes 3

AUT 211 Advanced Brakes 3

Total 6

Automotive Engine Performance Specialist

Certificate in Applied Science

Credit Requirements: 11 Semester Credit Hours

This certificate program provides instruction on the theory, diagnosis and repair of engine fuel, electrical and emission control systems. Graduates of this program should be able to evaluate, diagnose and repair carbureted and fuel-injected automobile fuel systems, conventional and electronic ignition systems, emission control systems, and on-board, computer-managed engine systems. Graduates with

the required work experience should be prepared for the ASE certification test in Engine Performance.

Admission into this program requires a valid driver's license, qualifying scores on SAT, ACT or TTC's placement test, and successful completion of AUT 133 or departmental approval. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Spring

*AUT 145 Engine Performance 3

AUT 149 Ignition and Fuel Systems 4

Total 7

Second Semester – Summer

*AUT 247 Electronic Fuel Systems 4

Total 4

* AUT 149 Prerequisite

Automotive Engine Repair Specialist

Certificate in Applied Science

Credit Requirements: 11 Semester Credit Hours

The Automotive Engine Repair Specialist certificate program provides instruction on the theory, service and repair of automobile engines. Graduates of this program should be able to perform all phases of engine repair including diagnosis, disassembly, measurement, machining and reconditioning of components, reassembly and run-in of engines. Graduates with the required work experience should be prepared for the ASE certification test in Engine Repair.

Admission into this program requires a valid driver's license and qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Fall

AUT 101 Engine Fundamentals 3

Total 3

Second Semester – Summer

AUT 103 Engine Reconditioning 4

Total 4

Third Semester – Fall

AUT 263 Advanced Automotive Machining 4

Total 4

Automotive Servicing

Certificate in Applied Science

Credit Requirements: 39 Semester Credit Hours

Day

The Automotive Servicing program prepares students for employment in the automotive servicing industry. This program teaches the basic skills required for the diagnosis, maintenance and repair of passenger cars and light trucks, through theory and shop instruction.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Fall

AUT 101	Engine Fundamentals	3
AUT 111	Brakes	3
AUT 131	Electrical Systems	3
AUT 133	Electrical Fundamentals	3
		Total 12

Second Semester – Spring

AUT 103	Engine Reconditioning	4
AUT 145	Engine Performance	3
AUT 149	Ignition and Fuel Systems	4
AUT 241	Automotive Air Conditioning	4
		Total 15

Third Semester – Summer

AUT 116	Manual Transmission and Axle	4
AUT 122	Suspension and Alignment	4
AUT 152	Automatic Transmission	4
		Total 12

Automotive Servicing

Certificate in Applied Science

Credit Requirements: 39 Semester Credit Hours

Evening

The Automotive Servicing program prepares students for employment in the automotive servicing industry. This program teaches the basic skills required for the diagnosis, maintenance and repair of passenger cars and light trucks, through theory and shop instruction.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Fall

AUT 101	Engine Fundamentals	3
AUT 133	Electrical Fundamentals	3
		Total 6

Second Semester – Spring

AUT 122	Suspension and Alignment	4
AUT 131	Electrical Systems	3
		Total 7

Third Semester – Summer

AUT 111	Brakes	3
AUT 241	Automotive Air Conditioning	4
		Total 7

Fourth Semester – Fall

AUT 116	Manual Transmission and Axle	4
AUT 152	Automatic Transmission	4
		Total 8

Fifth Semester – Spring

AUT 145	Engine Performance	3
AUT 149	Ignition and Fuel Systems	4
		Total 7

Sixth Semester – Summer

AUT 103	Engine Reconditioning	4
		Total 4

Basic Construction Trades

Certificate in Applied Science

Credit Requirements: 27 Semester Credit Hours

This certificate program teaches basic residential construction skills. A combination of credit courses is used to teach and build a house. The program prepares students for entry into the residential construction industry.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Fall

BCT 102	Fundamentals of Building Construction	4
BCT 103	Construction Site Layout	4
BCT 112	Construction Print Reading	2
BCT 201	Principles of Roof Construction	4
		Total 14