

Pittsburg State University

Department of AUTOMOTIVE TECHNOLOGY

Degree: Certificate of Applied Science

Major: Automotive Service Technology

As of Fall 2019

First Year
First Semester AST 101: Engine Repair 3 AST 102: Brakes 3 AST 122: Auto Mechanics General Laboratory I 5 AST 264 Special Topics ASE Test Prep 1 1
Second Semester AST 150: Engine Performance I 3 AST 151: Electrical Systems I 3 AST 152: Auto Mechanics General Laboratory II 5 AST 264 Special Topics ASE Test Prep 2 1
Summer Session 3 AST 160: Automatic Transmissions 3 AST 163: Manual Drive Train and Transaxle 3 AST 264 Special Topics ASE Test Prep 3 1
Second Year First Semester
AST 251: Electrical Systems II
Second Semester AST 255: Automotive Heating and Air Conditioning
AST 256: Suspension and Steering
AST 257: Auto Mechanics General Laboratory IV
AST 264 Special Topics ASE Test Prep 5

Fechnical Courses	2
AST 101: Engine Repair	
AST 102: Brakes	
AST 122: Auto Mechanics General Laboratory I	
AST 150: Engine Performance I	
AST 151: Electrical Systems I	
AST 152: Auto Mechanics General Laboratory II	5
AST 160: Automatic Transmissions	
AST 163: Manual Drive Train and Transaxle	3
AST 164: Current Topics in Automatic Transmissions	1
AST 251: Electrical Systems II	
AST 252: Auto Mechanics General Laboratory III	5
AST 255: Automotive Heating and Air Conditioning	3
AST 256: Supension and Steering	
AST 257: Auto Mechanics General Laboratory IV	
or AST 299: Automotive Service Coop Internship	6
AST 260: Engine Performance II	
Seneral Education Requirements	
General Education Requirements	

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

MINIMUM GENERAL REQUIREMENTS: Total Hours for a Certificate of Applied Science Degree with a Major in Automotive Service Technology (55-56 hours). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any major and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.

PSU Automotive Service Technology Required Tool List

Air Blow Gun (meeting OHSA

requirements)

Allen (Wrench or Socket) Set Standard

(.050"- 3%")

Allen (Wrench or Socket) Set Metric

(2mm-7mm, 10mm, 12mm)
Battery Post Cleaner
Battery Terminal Pliers
Battery Terminal Puller

Chisels:

Cape 5/16" Cold %", ¾" Chisel Holder

Claw Type Pickup Tool

Combination Wrenches:

Standard (¼" - 1 ¼") Metric (7mm-24mm)

Crowfoot Wrench Set (Metric)
Crowfoot Wrench Set (Standard)

Ear Protection Feeler Gauge (Blade Type): .002"-.040" .006mm-.070mm

Files:

Coarse 6" and 12" Fine 6" and 12"

Half Round 6" and 12" Round 6" and 12"

Flare Nut (tubing) Wrenches:

3/8"-3/4" 10mm-17mm Flashlight Fuse Puller

Fused Jumper Wire Set (with various

adapters)

Hack Saw

Hammers: 16 oz. Ball Peen

Brass Dead Blow Plastic Mallet Plastic Tip Rubber Mallet

Inspection Mirror Magnetic Pickup Tool

Pliers:

Combination 6" Hose Clamp

Locking Jaw Needle Nose 6" Side Cutting

Slip Joint (Water Pump)

Pry Bars: Rolling Head Straight Punches: Center

Brass Drift

Pin ¼",3/16" ¼", 5/16" Taper ¾",½",5%"

Safety Glasses (meeting OSHA

requirements) Scraper: Carbon 1" Gasket 1"

Screwdriver - Blade Type:

Stubby 6",9",12" Offset

Screwdriver - Phillips:

Stubby #1, #2 6" #1, #2 12" #3 Offset #2

Screwdriver - Impact Driver Set

Screw Starter: Phillips Standard

Bolt/Screw Extractor Kit

Socket Set - ¼" Drive: ¼" - ½" Standard Depth

¼" - ½" – Deep

6mm-12mm Standard Depth

6mm-12mm Deep Flex/Universal Type 3",6" Extensions

Ratchet

Socket Set - 3/8" Drive:

5/16" ¾" Standard Depth (6 point)

%" - ¾" Deep (6 point) 10mm-19mm Standard Depth

3",5",10" Extensions Flexhead Ratchet

Ratchet

Spark Plug Sockets ¾",13/16"

Speed Handle Universal Joint

Flexible Socket Set %" - %"
Flexible Socket Set 10mm-19mm
Socket Set - %" Drive:

7/16" - 1 1/8" Standard Depth 7/16" - 1 1/8" Deep

10mm-24mm Standard Depth

10mm-24mm Deep 3",6",12" Extensions Flex Handle (Breaker Bar) Ratchet Spark Plug (Gap Tool) Tape Measure - Standard and Metric

Test Light (12V) Tire Pressure Gauge

Torque Wrench: %" Drive (10-250 lb. in.) %" Drive (5-75 lb. ft.) ½" Drive (50-250 lb. ft.)

Torx Set (screwdrivers and/or sockets):

T-8 to T-60

Snap On meter required for meter

certification

Dial Indicator w/ Vice Grip

Tool Chest (Must be able to roll and lock)

Suggested but <u>not required</u> on the first

day of school:
Logic Probe
Compression Gauge
Vacuum Gauge
Hand Vacuum Pump
Fuel Pressure Gauge

Dial Calipers

1/2 Electric Drill w/ Drill Index

½ Air Impact3/8 Air Impact¾ Air Ratchet

Remote hose clamp pliers

Air operated die grinder with 3m pad

attachments

Coolant Pressure Tester Air Operated Chisel w/ tie rod

attachment
Magnetic Tool Tray
DVOM Inductive Clamp