

Automotive Technology Program Required Tool List

Tools required first day of classes
Estimated Cost: \$2,500-\$5,500

Quantity	Description	Tool Part No.	Price	Check-In
1	Rollaway tool cabinet with locking drawers (7drawer minimum). Minimum size 36" long, 19" deep x 42" high with minimum 5" wheels.			
1	Clear safety glasses (not goggles)			
1	Ear Plugs Corded			
4	Uniform Shirts purchased from Campus Book Store			
1	Optional: Matching top tool chest			
	1/4 Drive Set to Include:			
1 set	(10 sockets) 6 point (3/16 through 9/16)			
1 set	(10 sockets) deep 6 point (3/16 through 9/16)			
1	1" extension			
1	2" extension			
1	4" extension			
1	6" extension			
1	8" extension			
1	10" extension			
1	5" ratchet			
1	Nut driver handle			
1 set	(13 sockets) 6 point metric (5 mm through 14 mm) with 5.5 mm			
1 set	(13 sockets) 6 point deep metric (5 mm through 14 mm) with 5.5 mm			
1	1/4 universal joint			
	3/8 Drive Socket Set to Include:			
1 set	6 point sockets (5/16" through 7/8")			
1 set	6 point deep sockets (5/16" through 7/8")			
1	1" extension			
1	3" extension			
1	4" extension			
1	6" extension			
1	8" extension			
1	12" extension			
1	8" ratchet			
1	Universal joint			
1 set	Metric socket set 6 point (9 mm through 19 mm)			
1 set	Metric deep sockets 6 point (9 mm through 19 mm)			
1	Spark plug socket – 5/8"			
1	Spark plug socket - 9/16"			
1	Spark plug socket – 13/16"			
1	Long flex head ratchet – 12" (approx.)			
	1/2" Drive Set to Include:			
1 set	6 point metric sockets (12 mm through 24 mm)			
1 set	6 point sockets (7/16" through 1 1/8")			
1	3" extension			
1	10" or 12" extension			
1	10" ratchet			
1	Flex handle breaker bar 18" (approx.)			

1	Universal Joint			
	Wrench Sets:			
1 set	Combination long metric wrench set (6 mm through 24 mm)			
1 set	Combination long wrench set (1/4 through 1 1/8")			
1 set	Tubing wrenches 6 point flare nut (1/4 through 13/16)			
1 set	Tubing wrenches 6 point flare nut (9 mm through 21 mm)			
1	12" Adjustable Wrench (crescent)			
	Chisel and Punch Sets			
1	Minimum 10 Piece Set including 3 Cold Chisels, 3 Pin Punches, 1 Center Punch, and 3 Taper Punches			
	Combination Screw Driver Set			
1 set	Standard tip – 1/4" stubby, through 3/8" x 8" (5 piece set)			
1 set	Phillips tip - #1, #2, #3, and #2 stubby (4 piece set)			
	Hammers			
1	Ball peen dead blow hammer 32 oz			
1	Ball peen dead blow hammer 16 oz			
1	Compothane hammer 32 oz			
	Battery Tools			
	Minimum 5 piece service set including:			
1	Battery post cleaner (top post type)			
1	Battery post cleaner (side post type)			
1	Angle nose pliers			
1	Cable clamp puller			
1	Cable clamp spreader pliers			
	Pliers			
1	12" channel lock			
1	7" diagonal cutters			
1	6" or 8" long (needle) nose pliers			
1	7" slip joint pliers			
1	Wire stripping pliers with crimper			
1	"Vise Grip" brand locking pliers 5" model 5WR (no subs)			
1	"Vise Grip" brand locking pliers 10" model 10WR (no subs)			
	Brake Service Tools			
	Min. below (may be supplied as a kit with additional tools)			
1	Brake hold down spring tool			
1	Brake adjuster tool			
1	Brake return spring remover / installer tool			
1	Brake return spring pliers (may be a combination tool)			
	Miscellaneous Tools			
1	10" to 12" long wire brush			
1	Tread Depth Gauge			
1	Tape Measure 12 ft.			
1	Torx bit set – T8 through T60			
1	120 PSI Tire pressure gauge			
1	Air chuck			
1	Fender cover			
1	15" to 18" and 36" pry bar with plastic handle			
1	Feeler gauge round spark plug type .035-.080			
1	Feeler gauge set blade type (.0015-.025)			
1	Inspection mirror round (extends 10" – 14")			
1	6" pocket ruler with T bar, stainless steel, decimal equivalents on back			
1	Gasket scraper / putty knife			
1	12 volt test light with insulated clip (6' leads) no LED lights			
1	9 piece metric hex key set 1.5 mm through 10 mm			
1	Minimum 10 piece std. hex key set 3/32" – 3/8"			
1	Torque wrench 1/2 dr. 200 ft lb Minimum (click type)*			

1	Torque wrench (5 – 75 lb. click type) 3/8" Drive			
1	Magnetic pick-up tool			
1	Blow gun			
1	Flexible pickup tool – 4 claw type			
1	12" hacksaw			
1	10" mill file with handle			
1	Minimum 4 piece snap ring pliers set (internal/external)			
1	O-ring pick set (4 piece)			
1	Adaptors 3/8" dr to 1/2" dr, 1/2" dr to 3/8" dr, 3/8" dr to 1/4" dr			
1	Ignition spark tester - Adjustable			
1	Pencil Soldering iron kit 120v 40 watt - (if you supply a butane type soldering iron you need to supply butane to fill the iron so it works right out of the box)			
1	Tire valve core remover			
1	Digital calipers 0 to 6"			
1	3/8" drive std. hex bits (8 pieces) 1/8" – 3/8"			
1	3/8" drive metric hex bits (7 pieces) 4mm-10mm			
1	High Quality Multi-meter Minimum Specs: 1000 Volts DC, 750 Volts AC, AC/DC amps-10A, resistance-10 Mega-ohm, Frequency- 100khz, Duty Cycle-0 to 99%, Diode test, higher level, additional or added features are acceptable.			
1	Transmission piston lip seal installer tool (blade type)			
1	Transmission snap ring pliers (serrated jaws at 90 angle) 9" long			
1	Mini Mag light			
2	1/4" NPT Male Air Couplers w/Male threads -Type D			

NOTE 1: This is a MINIMUM tool listing for the class. Students may purchase additional tools at their discretion.

NOTE 2: Tools need to be ordered by mid-June to guarantee delivery by August. I understand tools need to be ordered by mid-June for guaranteed delivery by first day of class.