

## Automotive Technology – Required Tool List 2023

Safety glasses will be required the first day of lab. You can purchase them wherever you like.

Work Shoes with non-slip soles (safety toe recommended)

### 1<sup>st</sup> semester

#### **Tool Storage**

- Small roll cabinet – not to exceed 36” in length

#### **Ratchets and Sockets**

- ¼” drive ratchet
- ¼” drive metric socket set (shallow) (5-14mm required)(6 point)
- ¼” drive metric socket set (deep) (5-14mm required) (6 point)
- ¼” drive ratchet and extensions (2”, 4”, 6” minimum)
- ¼” drive swivel adapter
- 3/8” drive ratchet (flex head)
- 3/8” drive flexhead ratchet
- 3/8” drive extensions (3”, 6”, 12” minimum)
- 3/8” drive metric socket set (shallow) (8 – 19mm required) (6 point)
- 3/8” drive metric socket set (deep) (8 – 19mm required) (6 point)
- 3/8” drive SAE socket set (Shallow)(1/4” – 1”)(6 point)
- 3/8” drive swivel adapter
- Spark plug socket 13/16”, 5/8”, 9/16”, 14mm
- ½” drive deep impact socket set – metric (12mm – 24mm minimum) (6 point)
- Torx bit set for ¼” and 3/8” drive (T-8 – T-55)
- Torx external set (E-4 – E-18)
- Metric Allen Bit set
- Standard Allen bit set

#### **Wrenches**

- Metric combination wrench set (8mm – 22mm & 24mm suggested) Not ratcheting, 12 point
- 8” adjustable wrench
- Oil filter wrench/s. (pliers and spider type. No band style)

#### **Hammers**

- Dead blow Ball-peen hammers (36 oz required)
- Dead blow hammer (32 oz.)
- Plastic hammer

#### **Screwdrivers, ETC.**

- Screwdriver set (to include blade and phillips)
- Magnetic pick-up tool
- Inspection mirror
- Small pick set

## **Pliers**

- Needle-nose pliers
- Diagonal pliers (wire cutters)
- Combination pliers
- Channel-lock pliers
- Large 16” minimum channel lock pliers
- Wire crimper/stripper pliers

## **Other**

- Spark plug gap gauge
- Blow gun (OSHA approved)
- Flashlight with rechargeable batteries (LED, penlight style) 200 lumens and above
- ½” drive impact wrench
- Battery post cleaner (brush style)
- Utility Knife
- Digital Tire pressure gauge/inflator (all in 1 unit)
- 1/2” drive click type torque wrench
- Tread depth gauge (dial type)

## **2<sup>nd</sup> Semester**

### **Ratchets and Sockets**

- ½” drive swivel adapter
- ½” drive shallow impact socket set – metric (12mm – 24mm minimum) (6 point)
- ½” drive metric (chrome) socket set (deep) (6 point)
- ½” drive breaker bar

### **Test Equipment**

- 12-volt test light ignition spark tester (able to test coil over ignition systems)
- Tape Measure US and Metric
- Brake pad thickness measuring tool
- Digital Rotor Micrometer

### **Screwdrivers, ETC.**

- Hose removal pick
- Scrapers (plastic and gasket)
- Tire valve core tool (handle type preferred)
- Angled pry bar with handle (18” minimum)
- Drum brake service kit

### **Wrenches**

- Fractional flare nut wrench set (¼” – 13/16”) (double ended)
- Metric flare nut wrench set (9mm – 21mm) (double ended)

### **Pliers**

- Vise grip plier set (including needle nose)
- Snap ring plier set (inner and outer) (Plier sets required over pliers with replaceable bits)

**Other**

- Feeler gauge set, straight metric
- Feeler gauge set, bent metric
- Plastic trim tools
- Punch and chisel
- Hearing protection ear muff style
- Oxy/acetylene welding glasses set
- Stethoscope
- 10” mill file with handle
- 10” round file 3/8
- Wire Brush