

Students in the School of Aviation and Aeronautical Science are required to have their own tools, which are stored in the Abbott Aviation Center. For information on what semester the tools will be required, please see suggested course sequence information in the University Catalog. The following majors require the following tools:

- *Professional Flight: Level 1-3*
- *Aeronautical Science, Aircraft Systems (A&P majors): Level 1-4*

## **LEVEL 1 TOOLS**

### ***Required for AVTC 1001***

- Small Tool Box (lock highly recommended)
- Screw Driver Set including:
  - Flat Blade - Stubby
  - Flat Blade - 4"
  - Flat Blade - 6"
  - #2 Phillips - Stubby
  - #1 Phillips
  - #2 Phillips
- Duck Bill Pliers
- Diagonal Cutters, 6" to 8"
- Needle Nose Pliers
- Steel Rule - 6"
- Safety Glasses (shatter proof)
- Metal Dial Caliper - 6"

## **LEVEL 2 TOOLS**

### ***Required for AVTC 1401***

- Soldering Iron (25 Watt)
- Volt-Ohm Meter (VOM)

## **LEVEL 3 TOOLS**

### ***Required for AVTC 2231, 2431, 2441, 2601***

- Ball Peen Hammer, 8 oz. to 16 oz.

- File - 8" Flat
- File Handle
- Parts Cleaning brush
- Flashlight
- Hacksaw with 32 teeth/in. Blade
- Comb Wrench Set, 1/4" - 7/8"
- Ear Plugs
- 1/4" socket set including:
  - 12 point 3/16"-9/16" sockets
  - 1/4" Ratchet
  - 2" extension
  - 4" extension
  - 1/4" to 3/8" adapter
- Feeler gauge - .0015 to .030 in.
- Nitrile Gloves (either heavy duty or box of disposable)

## **LEVEL 4 TOOLS**

***Required for AVTC2211, AVTC3261, AVTC3461, AVTC3631, AVTC3641, AVTC3661, AVTC4281, AVTC4401, AVTC4601, AVTC4681***

- 3/8" drive Socket Set including:
  - 12 Pt. Standard Sockets 1/4" - 7/8"
  - Ratchet
  - Universal
  - 3" Extension
  - 6" Extension
  - 3/8" Deep Sockets 1/4" - 7/8"
- Torque Wrench 30 - 200 in. lb.
- 3/8" female to 1/2" male adapter
- Hex Wrench set .050" - 3/8"
- Slip Joint Pliers (channel lock)
- Standard Pliers
- Vise Grip Pliers
- Soft Face Hammer
- Snips, Right Cutting Offset (Aviation)
- Snips, Left Cutting Offset (Aviation)
- Fabric Scissors
- Tire Valve Core remover
- Wire Stripper (separate from wire crimpers)

- Wire Crimpers
- File coarse 8" 1/2 round
- File fine 8" 1/2 round
- File 8" Full round
- Pin Punch 1/8"
- Pin Punch 3/32"
- Chisel 3/8"
- Center Punch
- Automatic Center Punch
- Measuring Tape 8' or 10'
- Combination Square - metal