

Mechatronics - First Year ♦ 2024-2025 Tool List

General Tools/Supplies		
Quantity		ITEM
1	each	Locking tool box (roller cabinet optional)
2	each	Ball peen hammer (16-28 oz.)
1	each	Plastic soft-tip hammer (12-20 oz.)
1	set	Screwdrivers (Standard and Phillips)
1	set	Assorted punches
1	set	Assorted chisels
1	set	Allen wrenches
1	set	Combination wrenches (box end, 3/8"-1 1/4")
3	each	Adjustable wrenches (8", 10", 12")
2	each	Pipe wrenches (12", 18")
1	each	Steel ruler (6", 1/64 increments)
3	each	Files (10"-12", flat or mill, half round, round)
1	each	Hacksaw (24T, 32R blades)
1	set	Feeler gauge (optional taper gauge)
1	each	Roll head bar (or pry bar)
1	set	Socket wrench set – 1/4" drive
1	set	Socket wrench set – 3/8" drive
1	set	Socket wrench set – 1/2" drive
1	pair	Long-nose pliers (6")
1	pair	Slip-joint pliers (8")
1	pair	Curved-joint pliers (10")
2	pair	Vice grip pliers (10")
1	set	Retaining ring pliers (internal, external)
1	pair	Diagonal cutters
1	each	Tape measure
1	each	Torpedo level (9")
1	each	Combination square (center and protractor head options)
1	each	4 1/2" angle disc grinder

General Tools/Supplies		
Quantity		ITEM
1	pair	Leather boots
1	each	Arc hood
1	each	Leather jacket (or sleeves/apron)
1	each	Striker
1	each	Chipping hammer
1	each	Wire brush (extra stainless)
1	each	Welder's cap
1	each	Soapstone holder
1	each	Pipe wrap-around (optional)
1	each	Dial caliper (6")
1	each	Chalk line
1	each	Pencil compass (or 10" dividers)
1	each	Plumb bob (optional)
1	each	Inspection mirror
1	each	Wire stripper

MUST HAVES FOR 1ST WEEK OF FALL SEMESTER

1	pair	Safety glasses
1	pair	Coveralls (100% cotton)
1	pair	Cutting goggles
2	pair	Leather gloves
1	each	Tip cleaners
1	each	Flint Striker
1	each	Welding pliers

APPROXIMATE TOTAL COST OF TOOLS/SUPPLIES

(NOTE: Does not included the cost of textbooks)

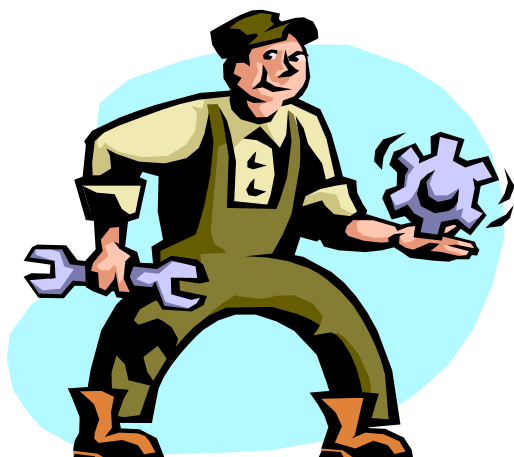
\$2000 - \$3500

(Prices subject to change based on price quotes received from the vendors)

Link to Finding Textbooks & Bookstore Cost

www.bookstore.nic.edu

NOTE: It is recommended that students not purchase tools or equipment until after classes have begun and specific tool / equipment requirements have been discussed in class.



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