#  Mechatronics, 1st Year t 2025-2026 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** |
| **1 pair** | **Leather boots** |
| **1 each** | **Arc hood** |
| **1 each** | **Leather jacket (or sleeves/apron)** |
| **Quantity** | **ITEM** |
| **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 FIRST WEEK OF FALL SEMESTER

|  |  |
| --- | --- |
| **Quantity** | **ITEM** |
| **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 COST OF TOOLS / SUPPLIES (NOTE: Does not include cost of textbooks)

**$2,000 - $3,500**
(Prices subject to change based on price quotes received from the vendors)

**Link for Finding Textbooks & Bookstore Cost**
[**https://nicbookstore.com**](https://nicbookstore.com/)

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


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