

## ME 120 Equipment Requirement

Fall 2017

Students need to obtain tools and supplies in order to participate in ME 120. Almost all of this equipment (and a little more) will be needed for ME 121 and ME 122. Thus, although the financial investment will be significant for ME 120, the full cost is amortized over three classes.

An estimated cost is provided for each item. In all cases, the low cost version of the item should be sufficient. Consult the ME 120 Equipment web page for additional information on where to purchase these items:

<http://me120.mme.pdx.edu/doku.php?id=equipment>

### Items Required for Each Student

Item	Estimated Cost	When needed
Sparkfun Tinker Kit Available at LID	\$43	Class meeting 3
Laptop	\$650-?	Class meeting 4
Multimeter	\$15-\$25	Class meeting 3
Mini test clip adapters	\$4-\$8	Class meeting 3
Canvas tool bag	\$5-\$20	Class meeting 3
Alligator clip extension wires	\$5-\$10	Class meeting 5
ANSI Approved Safety Glasses	\$2-\$20	Class meeting 5
Wire stripper	\$5-\$25	Class meeting 5
Needle nose pliers	\$5-\$25	Class meeting 5
Dial caliper	\$25-\$50	Class meeting 7
Stainless steel machinist ruler	\$3-\$12	Class meeting 7
Fin point permanent marker	\$1-\$2	Class meeting 7

### Items Required for Each Student Group of 2

Item	Estimated Cost	When needed
Soldering iron	\$10-\$50	Class meeting 5
Flux core lead-free solder	\$2-\$5	Class meeting 7
Solder flux	\$7-\$10	Class meeting 7
Teflon tape	\$0.60-\$1	Class meeting 11