Create a sketch / hand drawing

Iterate as needed

Iterate as needed

Deliver Document Package to Sam Chiappone, or place in bin outside JEC 3100A

**WAIT**

(anywhere from 2 hours to 3 weeks depending on shop queue)

* If there is a problem - Sam or PE will contact you
* You will be notified via email when job is complete
* Design Lab Requisition Form with **SIGNED** PE approval
* Paper copy of CAD drawings
* Flash Drive – Available in PE office (JEC 2027)
	+ .DXF Files of part drawings
	+ CAD drawing and model files (.prt - NX or .sldprt & .slddrw - SolidWorks)

Print out CAD drawings (Size A – 8.5” x 11”)

Review CAD drawing With PE

Create document package

* If material is special - PE may direct you to:
	+ Research procurement options, then follow purchasing process for individual material order
	+ Change design if too special

Review material with needs with PE

* If material is common:
	+ Talk to PE and/or Sam Chiappone for acquisition from campus sources
	+ Follow purchasing process for individual material order

Create CAD 2D drawings ( w/ dimensions, using standard RPI B-size Template)

* One sheet for each individual part
* Assembly and exploded view if appropriate

Create CAD solid models (use only NX or SolidWorks)

* One model file for each individual part
* Assembly file if appropriate

Review design feasibility with PE

* This review may be repeated before moving on
* If the mfg. process is **simple** - move on to next step
* If the mfg. process is **complex** - PE may direct you to review with Sam Chiappone

Review design and feasibility with one or more teammates