CHECK-OUT TEST GUIDE

TXRXlabs

What is it?

All check-out tests last one hour and cost $65, which can be paid at orientation or with the shop manager.

How do I take it?

All check-out tests must be scheduled with the corresponding shop manager via email.

What if I fail?

Failure to demonstrate proficiency in any of these listed skills will result in a failed check-out.

You will then need to attend the corresponding class to be cleared for studio hours.

You must still attend studio hours after passing your test in order to be completely cleared to use the equipment on your own.

ART AREAS

Ali Saunders, Art Lab Manager
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Ceramics
Different Types of Clay, Firing Temperatures, glazes
How to apply glaze (commercial and glazes mixed in buckets)
Equipment: How to use slab roller

Wheel
How to setup wheel (splash pan, bat, basic tools)
Steps for throwing: centering, making hole, pulling walls
How to remove pot from the wheel

Sewing
Machine Setup
Threading Machine
Sewing a straight line

Screen Printing
How to coat screen
How to use screen printing rig

Jewelry Studio
Hand Tools: How to use jeweler's saw and change blade

Knowledge of different type of hammers and what they are for (riveting, rawhide mallets, chasing hammers)

Equipment:
Rolling mill - How to texture a piece of metal
Hand Shear - How to safely cut a piece of metal
Foredom - How to use safely and change tip, knowledge of different tips
Drill Press - How to drill hole through metal and change drill bit or how to use drill bit with foredom

Acetylene Torch
Safety - safety glasses, hair tied back, badge out of way, turn on air filter
How to turn torch on/off
Changing torch tips
How to solder two pieces of metal together

RAPID FAB

Megan Moore, Rapid Fab Manager
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Laser Cutting
All safety precautions
What materials you can cut
Laser cut modes and settings
Steps for setting up machine
How to know if something is wrong and what to do

SLA 3D Printing
All safety precautions
Machine care precautions
Resin considerations
How to use PreForm software
Starting a print
Removing a print

FDM 3D Printing
All safety precautions
Filament considerations
What files are good candidates for printing
Print settings and how to slice
Setting up print on printer
How to know if something is wrong
Removing print

WOOD SHOP

Joyce Lin, Woodshop Manager
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In addition to a fundamental understanding of woodworking tools and processes, all members going through woodshop checkout will be expected to demonstrate PROFICIENCY in the following equipment:

Table (cabinet) saw
Joiner
Planer
Band saw
Table router
Drill press
Miter saw
Disc & Belt sander

Access to the wood lathe and CNC Router require a separate check-out and class.

In addition to the test, we will cover important safety & housekeeping rules associated with the woodshop.

WELDING SHOP

Sanjay Sharma, Welding Shop Manager
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In essence, you should possess knowledge in the metal shop equivalent to an instructor

-proficient in how the welding machine works
-proficient in its use
-safety requirements and their reasons
-best practices for tool longevity

-proficient in how the angle grinder works
-proficient in its use
-what the various discs are for and how to change them
-safety requirements and their reasons
-best practices for tool longevity

-proficient in how the various metal cutting saws work
-proficient in their use
-safety requirements and their reasons
-best practices for tool longevity

-proficient in how the ancillary tools (drill press, bench grinder, belt sander) work
-proficient in their use
-safety requirements and their reasons
-best practices for tool longevity