

CONTINUING JEWELRY FABRICATION

3-hour class for 8 weeks
NSCC Room 1633
Instructor: Aran Galligan
arangalligan@gmail.com
www.arangalligan.com

Notes:

*Further expand and develop your metal skills. In this class you will get lots of practice in design, jewelry fabrication and metalworking techniques that will build on what you learned in Beginning Jewelry Fabrication. Come with drawings, finished work and lots of questions. **Must have taken North Seattle Beginning Jewelry class or equivalent.***

*"Nobody tells this to people who are beginners, I wish someone told me. All of us who do creative work, we get into it because we have good taste. But there is this gap. For the first couple years you make stuff, it's just not that good. It's trying to be good, it has potential, but it's not. But your taste, the thing that got you into the game, is still killer. And your taste is why your work disappoints you. A lot of people never get past this phase, they quit. Most people I know who do interesting, creative work went through years of this. We know our work doesn't have this special thing that we want it to have. We all go through this. And if you are just starting out or you are still in this phase, you gotta know its normal and the most important thing you can do is do a lot of work. **It is only by going through a volume of work that you will close that gap, and your work will be as good as your ambitions.** And I took longer to figure out how to do this than anyone I've ever met. It's gonna take awhile. It's normal to take awhile. You've just gotta fight your way through."*

-Ira Glass

Studio Safety

- Do not work in studio alone.
- No open toed shoes or synthetic clothes.
- Goggles/safety glasses must be worn while operating machinery, especially the flex-shaft.
- Proper respirators must be worn while grinding, polishing, and working with chemicals.
- Proper hearing protection should be worn when needed.
- Do not use gloves when using motorized machinery.

Class Outline

- 1: Introduction
Example Images
Work Time
- 2: Example Images – Complex Solder Operations
Demonstration: Pick Soldering, Wire Soldering, Soldering
Review
Work Time

Notes:

3. Example Images – Stone Setting
Demonstration: Prong Setting
Work Time
4. Demonstration: Tube Setting
Work Time
5. Demonstration: Making a Pokey Tool & Flush Setting
Work Time
6. Example Images – Rings
Demonstration: Band Ring and Wrapped Band Ring
Work Time
7. Example Images – Hollow Construction
Demonstration: Hollow Construction
Work Time
8. Work Night

Optional Projects:

Influence of Scale

Create three pieces from the same design. Make the first in a scale that is comfortable to you, then create one to push the scale to the small and to the large extreme.

Ring in a Box

Hollow construct a box to contain a ring. The box and ring should connect visually or narratively. Consider all sides

Tools and Supply Sources

Rio Grande Tools
4512 Anaheim Ave NE
Albuquerque, NM 87113
800-637-8303

Seattle Findings
500 Union St #310
Seattle, WA 98101
(206) 682-7020

Beadworld
9524 Roosevelt Way NE
Seattle, WA 98104
206-523-0530

Online Metals
1138 W Ewing St
Seattle, WA 98119
206-285-8603

Notes:

Fusion Beads
3830 Stone Way N
Seattle, WA 98103
206-782-4595

Alaskan Copper and Brass
3223 6
Seattle, WA 98124
206-623-5800

Hardwick's
4214 Roosevelt Way NE
Seattle, WA 98105
206-242-2013

Metaliferous
34 W. 46
New York, NY 10036
www.metalliferous.com

Danaca Design
5619 University Way NE
Seattle, WA 98105
206-524-0916

American Science & Surplus
888-SCI-PLUS
www.sciplus.com
(quality varies widely, but
good starter items)

NSCC Jewelry Studio

This studio is a shared community space. All users of this space are expected to treat all equipment and tools with care and respect, as well as their fellow students, and instructors.

General

1. Check the front chalkboard often for announcements, studio hours, lost tools, etc.
2. Emergency Security button is on the front demo desk.
3. Lab Tech has a clipboard on dental cabinet for you to tell her about empty supplies, tool problems etc.
4. Only instructors, lab tech and monitors touch the oxygen regulator.
5. No books are to be taken out of the studio.
6. Lost and Found: Check the bottom drawer next to fridge, or ask instructor to check in the locked instructors drawer.
7. There is an information rack up front with flyers on art shows, things for sale, events and other stuff.
8. Paper recycling bin is under the info rack.
9. Glass, plastic and aluminum goes into the blue bin under the drill press in the forging room.
10. The triangular red cans are for solvent-soaked rags/paper towels only.
11. If you make a mess – clean it up!
12. First Aid Kits are located in both rooms. Emergency eyewash stations are located at 3 different sinks.

Your Bench Area

1. You are expected to clean up your bench area after each use.

Notes:

2. Write your name or initials on all your personal tools in case they get lost.
3. Use torches only on known metals and not on any other materials that are in any way questionable. Ask if needed.
4. Turn the gas and Oxygen spigots off when done.
5. Return all lab tools to their proper place when done – do not keep any in your toolbox.
6. Benches are assigned only during your class time. Please be flexible during open lab times when benches are first come first serve.

Pickle Pots

1. **Never put steel or unknown metals into the pickle** – it will cause everything to copper plate.
2. Don't dump hot pieces into pickle – you may splash yourself or others.
3. When pots start steaming please turn them off.
4. Conserve the pickle – drain as much as you can back into the pot and don't just dump strainer into the rinse water.
5. Please take turns cleaning up the area at the end of class/day.

Care of Tools and Equipment

1. All tools must be put back in their assigned areas.
2. All files must be cleaned with filecard after use.
3. Do not use pliers or files in your soldering! It will ruin them. Only use the steel tweezers in the fire.
4. Do not use any equipment that you have not been instructed on how to use. There can be dangerous consequences.
5. The computer is for credit students only and is to be used for class/project related use only.
6. Hammers: Take time to understand the hammers. Silversmithing hammers are never to be used on steel. Steel claw hammers are the hammer to use on the die cutters, chasing tools and dapping tools.
7. Disc Cutters: Please use this tool CAREFULLY and PROPERLY. This expensive tool is easily ruined when used improperly.
8. Steel Forging Tools: Don't get water on them! Steel +Water=RUST. Keep your hands and projects dry when using these tools. Clean off the oxides from soldering before hammering your piece on these tools – it will imbed the oxides into the steel tool.

The Forging Room

1. Ear protection and face/eye protection are available.
2. Please put the shear handle up when done using it – so we don't run into it.
3. Buffing Machines: No scarves, necklaces, i-pod cords or hoodie strings etc! No gloves allowed. Wear face guard. Please

Notes:

wash your hands and piece thoroughly between different compounds/grits to prevent contamination. Keep the lids on the buffing wheel boxes at all times. Please put the ring mandrel back into the bag. Vacuum up the area when finished.

4. Sandblaster: Please relatch the hooks and lock up when done. These are dangerous when sticking out. Do not blast anything smaller than the openings in the screen inside.

5. Tumblers: These are polishers, NOT cleaners. All buffing compounds must be cleaned off before going in. Never allow any steel into the tumblers. Do not use these for any personal pieces without permission from instructor. Use the log in sheet and cross your name out when piece is removed. Please recollect the shot that falls out of the tumblers.

6. Casting area: No student should operate the oxygen and acetylene regulators or burn-out kiln without specific training and permission from Lynne Hull.

7. Chemical Hood: All patinas and sprays will be used under this hood only. Use gloves provided. Read instructions on the patina containers. Please log all leftover solutions and then transfer to the big brown bottle. Estimating the amount is OK. Clean up the area when you are done. If you must leave a solution, identify it with the tent cards provided. Put all patina chemicals back into the cabinet below.

- Ask a monitor or instructor when in doubt about how to use something.

- If you damage something, let the monitor or instructor know about it.

- If a supply is low, or you notice something broken, leave the lab tech a note.

Each of your efforts to take care of this lab and its equipment are noticed, appreciated and necessary. Thank You!

Basics for Jewelry Making Studio

Bench

Good light source
Jewelers saw and bench pin
Small vise and anvil
Ring mandrel
Needle files
6" half round file
Center punch and claw hammer
Drill bits and flex shaft tools
Steel ruler and calipers
Rawhide mallet
Goldsmithing hammers
Pliers: round, chain, flat, and nips
Burnisher and stone setting tools
Pin vise and work holder.

Flex shaft: 1/8th horsepower min, 3 30 hand piece.

Solder Area

Torch
Fire extinguisher
Fire board, tripod, third hand, and tweezers
Pickle pot, copper tongs
Quench bowl
Sink

Forming Tools

Sand bag
Wood swage block and round blocks
Dapping tools
Chasing tools and stamps
Draw plate and tongs
Pitch bowl
Engraving block
Circle cutters

Polishing Machine/buffs/compounds

Grinder
Tumbler/steel shot/soap