

Class: Gold I

Instructor: Shuoyuan Bai

MATERIALS

Project #1: *Stackable rings*

1. *Hammer texture band*

- 14 gauge 14k or 18k yellow gold round wire (2"-3" depending on your ring size)
- 14k or 18k yellow gold solder

2. *Twisted band*

- 14 gauge 14k or 18k yellow gold square or rectangle wire (2"-3" depending on your ring size)
- 14k or 18k yellow gold solder

3. *Braided band*

- 18 gauge 14k or 18k yellow gold round wire (6")
- 14k or 18k yellow gold solder

4. *Crown band*

- 14 gauge 14k or 18k yellow gold round wire (2"-3" depending on your ring size)
- 14k or 18k yellow gold solder

Because gold is an expensive material, the material list serves as a general guide to how much materials should be purchased. The actual amount of gold may vary depending on individual ring size and designs.

Project #2 and #3: *Bezel set ring and Custom design project of student choice*

- Necessary materials for these last two projects will be informed by a discussion about each student's preferences of gemstone and design choices for their final project, and will be determined on an individual basis with consultation from the instructor.

TOOLS

Essential Toolkit:

- two dozen 2/0 saw blades
- beeswax or burlife
- wet-dry sandpaper in grits 240, 320, 400 (one sheet of each)
- scribe
- fine point sharpie
- rocker and pusher for bezel setting
- flat edge rubber wheels in black (medium abrasiveness) and blue (fine abrasiveness), mounted or unmounted (if purchased unmounted rubber wheel then screw top mandrel is required for using it on rotary shaft tool.)
- set of needle files
- forming pliers: flat and half-round plier, chain nose plier, round nose plier
- soldering pick

The studio has needle file sets, pliers and soldering picks for students to use during class time, however, it is recommended to have your own sets.

Recommended Toolkit:

- 3M Tri-M-It Polishing paper green (400 grit), gray (600 grit) and blue (1200 grit)
- slotted mandrel for emery paper (split mandrel)
- brass caliper (brass millimeter gauge)
- flat nose parallel action pliers
- tight-weave fine muslin buffing wheel (to use with screw top mandrel on flexshaft)
- Miter-Cutting Vise and Jig (**This is an expensive tool and is NOT a requirement to have.**)
- N95 dust mask

Found in the Studio

- saw frames
- needle file set
- basic plier assortment
- flexshaft
- torch
- flux
- solder pick
- pickle and quench bowl
- polishing compound (
- steel block
- rawhide mallet
- steel hammers

List of Suggested Suppliers

Be sure to call ahead for suppliers' hours, many are not open on the weekends and close early on Fridays!

Myron Toback (for gold)

545 5th Ave. #1000
212-398-8300

Rio Grande *online only (for tools, gold, & stones)

www.riogrande.com
800-545-6566

Allcraft (for tools)

135 West 29th Street
212-279-7077

Dikra Gems (for stones)

56 West 45th Street, suite 1005
212-869-6332

R Gems (for stones)

48 West 48th Street, suite 210
212-302-3388

Student Guidelines & Studio Rules

Studios are open 15 min before the start of class.

Do not enter any studio without your instructor present.

Do not enter a studio until the previous class has ended and all the participants have left the room and your instructor is present.

Students must leave studios after their class is over.

Do not use any tool that you are unfamiliar with as it could permanently damage the tool particularly hammers.

Only use hammers that you are familiar with like a “hardware hammer” if it doesn’t look familiar don’t use it you will ruin it.

Exhaust fans must be turned on when torches are being used or any materials is being melted.

Tools & Torches are coded with six different colors which denote the studios they belong in and their use;

Blue S353

Yellow S355

Red S352

Orange S350

LIGHT BLUE INSTRUCTOR’S BOX NOT FOR STUDENT USE.

Green children’s classes

If you borrow a tool from another room, return it at the end of class time.

Library books are for reference only please return them in their proper order.

Students are responsible for cleaning the space they have used including the soldering station and bricks and returning tools at the end of class.

This is a communal studio please help us make your time here productive by following the above guidelines.