DEPARTMENT OF ART

University of Alaska Fairbanks

Summer Semester 2020

Advanced Metalsmithing

Art 409 F81
CRN: 51026
3 Credits
Prerequisites: ART F209, F309
Location: Fine Arts – Art Room 407
Meeting time: 6-7:30 pm, M-Th
May 18-Aug. 6
UAF is an equal opportunity employer/program and auxiliary aids and services; services to individuals with disabilities are available upon request.

INSTRUCTOR: **Patricia Carlson**
Office Location: Room 407A, Fine Arts Complex
Office Hours: Before, after class, and by appointment.
Office Telephone: Art Department Office: 474-7530
E-mail Address: pecarlson@alaska.edu

COURSE DESCRIPTION

Advanced students will learn metal forming, fabrication, surface treatment and finishing techniques that will give them more freedom of artistic expression in metal.

COURSE GOALS

Students learn to alloy, move, and fabricate metal for their specific purposes. They will learn to embellish their pieces with textures, finishes, and stones. Proper finishing techniques will be used for the particular project. Students will enter a piece in the student art show towards the end of the semester.

STUDENT LEARNING OUTCOMES

After completing this course, students will be able to create original artwork in metal and supplemental materials using anticlastic forming, forging, chasing, repousee, raising, sinking, and foldforming. Additional surface treatments such as reticulation, enamel, and etching will be introduced. Students may fabricate

chains and findings to complete their unique pieces. In critiques, students will be able to discuss their artwork and that of their classmates based on the principles of 3D design.

COURSE READINGS

The Complete Photo Guide to Making Metal Jewelry **by John Sartin**
Optional: The Classic Goldsmith **by Mark Maxwell***, Troubleshooting for Jewelers* **by Frieda Munro***, and Metal Jewelry Made Easy* **by Jan Loney.**

Students must keep a sketchbook during the course. Please keep a sketchbook during the course, and take technical notes during demonstrations. By drawing ideas in your sketchbook, you will be able to resolve most of your technical problems and communicate your ideas to me on paper. I will ask for a sketch of your project before you begin.

Course Materials
Sterling silver, copper, brass, bronze, nickel silver sheet, wire and casting grain are available for purchase. Silver and bronze casting grain are sold by weight. Students keep track of their metals purchases in the Metals Log notebook, and settle their materials bill at the end of the semester. Materials in scrap containers are free to students. Do not store studio tools in your locker since everyone uses them!

TECHNICAL REQUIREMENTS

After my demonstration, students will be checked off on their use of studio equipment before they use it independently. ALWAYS use safety glasses, whether soldering, hammering, sawing – anything. Wearing them will help protect your eyes from broken saw blades, a neighbor's broken drill bit, a splinter of steel, etc. ***All Advanced Students who haven't previously done so will have their facemasks fit in class. Attendance is crucial for casting requirement.*

INSTRUCTIONAL METHODS
Through small group instruction, mini lessons, and close-up demonstrations and individual help, advanced students will complete their projects. I may assign a video to help clarify a technique, or give handouts when necessary.

COURSE PROJECTS

**Those students who have completed Advanced Metalsmithing once should make detailed drawings of five projects that will stretch their metalsmithing skills using techniques that are new to them. Use books, journals, and the

internet to help you plan these. Look into www.snagmetalsmith.org for inspiration.

Demonstrations and instruction will be given for the following required projects:

Week 1-2: May 18, 25 Read pp. 1-87 in Sartin. Textures

Project 1: Learn to use the rolling mill properly to impress textures. Texture plates to emboss from. Alloy 80/20 reticulation silver, bring up fine silver, and reticulate practice pieces. Fuse silver scraps together and roll out. Fuse silver filings on silver, copper, or brass. Alloy and reticulate shibuichi and other metals. Make samples that you can make pieces out of later.

Week 3-4, June 1, 8: Read 89-117. Forging.

Project 2 Learn how to dome metal; learn the different uses for the cross peen, ball peen, and flat or planishing hammer. Learn to planish, curve, and taper a metal rod (these make great silver rings!) Learn anticlastic and synclastic forming. Great for bracelets!

June 11th, Critique #1. Be ready to show your current work to the class, and be ready to share insights, and inspirations with your fellow students.

Week 5-6, June 15, 22 Read 119-149. Stonesetting.

Project 3 Learn about asymmetrical stones, faceted stones, tube, flush, and huge prong settings. Which ones haven't you done? Try a new one.

Week 7-8, June 29, July 6 Read Projects 152-end.

Project 4 Choose a project like one from the book that pushes your skills, or redesign a project so it fits your needs. Use the skills you have learned and practiced. Use those texture samples that you created earlier.

July 9th: Critique #2

Week 9-10, July 13, 20

Project 5 Work time! You have time to design your own project and execute it. Try fabricating a clasp or hinge that you haven't made before. Let me know if you need something special to do it.

Finish all your projects, and be ready to bring ALL your finished projects to the Final Critique!

Week 11-12, July 27, Aug. 3. Finish all your projects, do another project from the book, and be ready to bring ALL your finished projects to the Final Critique!

Aug. 6, Individual Final Critique this week. Sign up for a critique time and a cleanup job.

COURSE POLICIES

- All students are expected to follow the safety rules of the studio, or they will be asked to leave. Wear closed-toe shoes, tie hair and loose clothing back, wear the proper safety gear (safety glasses, dust masks, leather aprons and casting gloves, dark casting glasses, face shields, and hearing protection, for example). Proper ventilation must be used when soldering, casting, investing, burning out flasks, and using electric wax pens.
- Being plugged into your phone is a safety hazard! If you need music, leave one ear free to hear me call your name. No one should be watching movies or reading email during studio time. You may leave your phones on, but take calls in the hallway.
- All students will be responsible for the cleanup of their work areas as well as a portion of the common work area, machines, and tools. Use the broom, dustpan, sponge, and paper towels to clean up our area. We all enjoy working in a tidy studio, so we expect you to do your part.
- Learn how to use the equipment from the instructor. All students must have learned how to safely use the studio tools and machines before independent use. Intentional misuse of any tool is dangerous and costly. Students who do so will pay for the damage.
- The pickle pot must be unplugged before everyone leaves, or it is a fire hazard. The gas and oxygen must also be turned off. If you have not been instructed how to do this, do not attempt to do it.
- All students must notify the instructor immediately if they are hurt.
- Come to class on time, and stay for the whole period. Only current registered metals students can work in this studio!

EVALUATION POLICIES

- The studio will have critiques by level, and also with the whole studio. Students are expected to participate by showing their work, asking questions, and giving constructive feedback. Participation in these critiques counts for 25% of your grade.

- Students are required to save ALL Projects for a final grade at the end of the semester. Students will meet individually with the instructor for the Final Critique, which will make up 50% of the grade. Class attendance and participation will make up the remaining 25%.

- Grading scale:

    - A = 90-100% Complete all projects with attention to detail and final finish, attend and participate in all critiques, fill up your sketchbook, and attend all classes.
    - B = 80-89% Complete 4 projects; other factors are lacking (attention to detail, sketchbook, critique participation, attendance, etc.).
    - C = 70-79% Complete 3 projects; other factors are lacking.

      D = 60-69% Complete 2 projects; other factors are lacking.

EXPLANATION OF NB/I/W GRADES

This course adheres to the UAF regarding the granting of NB Grades. The NB grade is for use only in situations in which the instructor has No Basis upon which to assign a grade.

Your instructor follows the University of Alaska Fairbanks Incomplete Grade Policy: "The letter "I" (Incomplete) is a temporary grade used to indicate that the student has satisfactorily completed (C or better) the majority of work in a course but for personal reasons beyond the student's control, such as sickness, he has not been able to complete the course during the regular semester. Negligence or indifference is not an acceptable reason for an "I" grade."

INSTRUCTOR RESPONSE TIME

Students may email me at any time with questions about assignments. I will often respond within an hour or by the next day, depending on when the message was sent.

EFFORT AND STUDENT INVOLVEMENT

This class is a Studio Course that meets with the instructor six hours per week. You are required to work an additional 6 hours, for a total of 12 hours of classroom/studio time per week. The studio is accessible 24 hours per day to registered metals students, and will be available except when other classes are in session.

ACADEMIC INTEGRITY

As described by UAF, scholastic dishonesty constitutes a violation of the university rules and regulations and is punishable according to the procedures outlined by UAF. For this course, not doing your own work, not giving credit to artists who influenced you, and generally not being original with your ideas is scholastic dishonesty. Scholastic dishonesty is punishable by removal from the

course and a grade of "F." For more information go to Student Code of Conduct. (http://uaf.edu/usa/student-resources/conduct)

DISABILITIES SERVICES

UAF is obligated to provide accommodation only to the known limitations of an otherwise qualified student who has a disability. Please identify yourself to UAF Disability Services by applying for accommodations. To be considered for UAF Disability Services accommodations individuals must been rolled for at least one credit as a UAF student. If you believe you are eligible, please visit the web site at UAF Disability Services.
907-474-5655 phone
907-474-5688 fax
uaf-disability-services@alaska.edu
www.uaf.edu/disabilityservices

TITLE IX PROTECTION

University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska. If you believe you are experiencing discrimination or any form of harassment including sexual harassment/misconduct/assault, you are encouraged to report that behavior. If you disclose sexual harassment or sexual violence to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident. Your choices for disclosure include:

1) You may confidentially disclose and access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043.
2) You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 474-7599.
3) You may file a criminal complaint by contacting the University Police Department at 474-7721.

Your Material Fee pays for:

- Hand files
- Needle files
- Pliers
- Cutters
- Sawframes
- Sawblades
- Hacksaws and blades
- Sandpaper (several grit sizes)
- Belts for belt sander
- Bandsaw blades
- Mandrels
- Flexshaft
- Flexshaft burs
- Flexshaft abrasives
- Drill bits
- Drilling lube
- Stamps
- Chasing tools
- Tool steel
- Chasing hammers
- Planishing hammers
- Delrin hammers
- Raising hammers
- Sinking hammers
- Dapping tools
- Disk cutters
- Forming stakes
- Anodizing equipment
- TSP
- Some Titanium
- Anodizing tape
- Pickle
- Pickle pot
- Dawn soap
- Hydrogen peroxide
- Baking soda
- Ammonia
- Ziploc bags
- Casting investment
- Casting flasks
- Casting molds
- Wire waxes
- Carving waxes
- Sprue wax
- Soft waxes
- Carving tools
- Electric wax melting pens
- Blastoff investment remover
- Butane wax pens
- butane
- Whiteout
- Double sided tape
- Painter's tape
- Binding wire
- Titanium wire
- Flux
- Hard solder
- Medium solder
- Easy solder
- Extra easy solder
- Striker flints/batteries for lighters
- Soldering tweezers and picks
- Dopping wax
- Lapidary wheels
- Casting flux
- Buffing wheels
- Bobbing compound
- White diamond compound
- Red rouge
- Krylon sprays
- Renaissance wax
- Epoxy glue
- Super glue
- Pitch
- Rock oil
- Enamels
- Klyr fire fixative
- Kiln furniture
- Enameling forks
- Alundum stone
- Some chains and findings
- Beads
- Faceted stones
- Cabs and slabs
- Brass wire
- Copper wire
- Nickel wire
- Bronze wire
- Some base metal sheet

And more.