

San José State University
Department of Art and Art History
Art 147, Topics in Metalsmithing and Jewelry: Simple Machines in Metal,
Section 01, Spring 2017

Course and Contact Information

Instructor:	Michal Niv
Office Location:	Art Building, Room 119
Telephone:	Email only
Email:	Michal.niv@sjsu.edu
Office Hours:	Mon & Wed 11-noon or by appointment
Class Days/Time:	Friday 9:30- 3:30
Classroom:	Art Building, Room 210
Department Office:	Art 116
Department contact:	Website: www.sjsu.edu/art Email: art@sjsu.edu

Canvas and MYSJSU Messaging

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on the Canvas learning management system course website. You are responsible for regularly checking with the messaging system through MySJSU and/or Canvas to learn of any updates. Please be sure you update your email address and notification preferences on MySJSU.

Course Description

Technical and aesthetic aspects of metalsmithing and jewelry design. Fabricating, surfacing, soldering and cold connections. Repeatable for 12 units of credit when topic changes.

Course Topic

This course is an upper-division, graduate and undergraduate studio class that explores the fundamentals of metalsmithing and jewelry design. Through completion of one exercise and three projects, students will gain knowledge of the basic tools used in metalsmithing as well as basic techniques including soldering, forming, and cold joining metal objects while incorporating simple machines that add another element: movement. In-class demonstrations, lectures, and hands-on practice will allow students to develop skills that will expand with each successive project. Additionally, students will gain knowledge of machines and how they can be incorporated into wearable pieces. Course readings, class discussions, and written assignments will provide the building blocks needed to create thoughtful designs and the language needed to inform a critical discourse of jewelry in contemporary art. Through successive projects students will develop an eye for detail and

craftsmanship. An outline of each project will be provided in class.

Prerequisite: Art 047 or instructor's consent

Three units.

Learning Outcomes

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

CLO1: Identify and safely use tools and equipment.

CLO2: Apply advanced techniques as outlined in assignments to complete one project and three exercises.

CLO3: Complete three jewelry pieces that incorporate simple machines as outlined in class assignments.

CLO4: Participate and contribute to the critical evaluation of finished work through active involvement in instructor-led class critiques.

CLO5: Apply the content described in course readings and individual research to the two jewelry projects completed in the class.

Required Texts/Readings

Textbook (purchase not required)

The Complete Metalsmith: An Illustrated Handbook by Tim McCreight

ISBN-10: 0871922401

ISBN-13: 978-0871922403

A class copy is available for reference in Art 210 during class and lab hours.

Students may purchase a copy at www.Amazon.com or at other book retailers.

Other readings

Required readings will be uploaded to Canvas as needed.

Other equipment / material requirements

A dedicated sketchbook is required. A small toolbox or tackle box is strongly recommended. Students are required to purchase silver and any materials or supplies that exceed the class allotment such as saw blades, sandpaper, and metal as needed for the completion of projects. Cost will vary from student to student depending on individual needs and current market prices. Students will be given fair warning when outside materials are needed as projects are assigned. Students can expect to spend \$30-\$100 during the course of the semester. A list of vendors will be provided in class.

Library liaison

Rebecca Kohn

Email: Rebecca.Kohn@sjsu.edu

Resource link: <http://libguides.sjsu.edu/art>

Our library Liaison is Rebecca Kohn. She can be reached via email at Rebecca.Kohn@sjsu.edu and by phone at (408) 808-2007. Her office is located on the 4th floor of the King Library and she welcomes students to contact

her with research questions. Art and Art History Library Resources are available online at: libguides.sjsu.edu/Art. All of the University Library Resources can be accessed at: libguides.sjsu.edu/az.php

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in [University Policy S12-3](http://www.sjsu.edu/senate/docs/S12-3.pdf) at <http://www.sjsu.edu/senate/docs/S12-3.pdf>.

Grading Policy

- I expect a high degree of commitment to this class. Your persistence, imagination, and level of involvement in solving visual problems determine the quality of your work. Be sure to challenge yourself within the parameters of each assignment. The criteria I use in assigning grades for studio assignments are the quality and complexity of the ideas being explored (including preparation, research, and preliminary sketches) and your success in executing these ideas (problem solving, craftsmanship, attention to detail, presentation).
- Access to your grades as well as copies of course materials such as the syllabus, major assignment, handouts, notifications etc. will be made available through the SJSU Canvas system (<http://sjsu.instructure.com>), accessible through your SJSU One account. You are responsible for regularly checking with the messaging system through MySJSU.
- All work must be finished and turned in according to described deadlines and instructions. **I will accept late assignments at any time until the end of the semester, but they will be downgraded by one full letter grade.**

A+ = 100-97%	A = 96-93%	A- = 92-90%
B+ = 89-87%	B = 86-83%	B- = 82-80%
C+ = 79-77%	C = 76-73%	C- = 72-70%
D+ = 69-67%	D = 66-63%	D- = 62-60%
F = 59-0% Unsatisfactory		

A= Excellent work
 B= Above average work
 C= Average work
 D= Below average work
 F= Unsatisfactory work

Note that “All students have the right, within a reasonable time, to know their academic scores, to review their grade-dependent work, and to be provided with explanations for the determination of their course grades.” See [University Policy F13-1](http://www.sjsu.edu/senate/docs/F13-1.pdf) at <http://www.sjsu.edu/senate/docs/F13-1.pdf> for more details.

Your final grade will be assessed as follows:

1) Exercise 1	8%
2) Project 1	25%
3) Project 2	25%
5) Writing assignment	8%
6) 2 Discussion entries	4%
7) Hazmat/safety test	5%

8) Enameling test	5%
9) Class participation	20%

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Exercise 1- A moveable chain of units joined with rivets.

Using two link shapes in repetition and 3 types of rivets for connection you will create a flexible chain. Each link will be an exploration of surface, utilizing the rolling mill, stamps, and hammers and each connection area will explore the diverse functions of different rivet types.

(CLO1, CLO2, CLO4) **Due: 2/10/17**

8%

Project 1- “Toy Ring” Jewelry

Inspired by toys, create a ring that is based on simple machine, to incorporate movement. Whatever your inspiration is, your challenge is to merge function, form, and concept into a finger-based wearable and moving sculpture.

(CLO1, CLO2, CLO3, CLO4, CLO5) **Due: 3/17/17**

25%,

Project 2: enamel

Using repeating elements, while focusing on composition, movement and color, you will design and create a necklace. Your necklace will use enameling as the primary technique with cold connections only.

(CLO1, CLO2, CLO3, CLO4, CLO5) **Due: 5/12/17**

25%

Written Assignment: research and proposal for Project 2

(CLO5) **Due: 4/07/17**

8%

Canvas discussion entries

(CLO5) **Due: 2/17/17, 4/14/17**

4%

Hazardous materials and safety test

(CLO1) **3/03/17**

5%

Enameling test

(CLO1) **3/24/17**

5%

Class participation

(CLO1, CLO4, CLO5)

20%

Rubrics are included with each assignment outline. Grades can be accessed on Canvas within 2 weeks of turn in date. Any questions regarding grades can be emailed to me at yvonne.escalante@sjsu.edu or through the class Canvas page. Additionally we can discuss any questions or concerns in my office during office hours or by appointment.

Extra Credit

Extra credit is welcome and encouraged in order for you to further explore any of the techniques covered. I may also offer extra credit opportunities in class as they arise. You may submit one extra credit piece worth up to 5% of your grade. Extra credit is given a point value based on complexity of the piece and quality of the end product. 5% is not guaranteed and can range from 1-5%.

Late work

Late work will be accepted, however, 5% will be deducted from late work for each class meeting it is late. 10% for every week it is late.

Class participation

Participation is assessed as follows:

- Active participation in the critical evaluation of projects through class critiques
- Active participation in class discussions
- Active participation in daily and weekly cleaning duties
- Participation in the end-of-semester cleanup to be held on the scheduled final day

Participation points may be made up through extracurricular activities related to Jewelry and Metalsmithing classes as cleared by instructor.

Classroom Protocol

We learn by researching, experimenting, creating and discussing. I encourage mistakes and failures as part of the learning process. Through critiques and discussions, we will all learn and we will all teach. I expect students to have fun, be imaginative and expressive, but I also expect that they will be respectful toward the instructor and each other. No electronics are to be used during class unless they are used as research tools for the assigned projects. Critiques are a very important part of the learning process and I expect all students to be attentive and actively participate. Because this is a hands-on class with many demonstrations and slide lectures I expect all students to be mindful of attendance. Too many unexcused absences or tardies may negatively impact your grade because you are likely to miss crucial information. Be on time, arriving late disrupts class and is disrespectful. If you miss a demonstration, it is up to you to make arrangements with the instructor to make it up. Artistic integrity is a must. Your work should be your own original work. You may look to other artists and online resources for inspiration, techniques and skill building purposes, but you may not copy someone else's idea or concept.

Keep your workspace clean!

Clean up: Clean up begins 15 minutes before class ends. ALL areas that you have used must be cleaned before you leave the studio. An additional and mandatory department wide cleanup will take place on the date scheduled for our final exam.

Graded Participation- Mandatory 5-minute daily cleanup

1. Turn main gas and air valves off (located under your workstation).
2. Clean and return tools to station drawer (jeweler's saw, ring clamp, needle files, dividers, bench pin,

- soldering kit, and Freedom bits).
3. Clean and return glass and/or soldering plate to bench side storage area.
 4. Clean and return tools and unused supplies to the appropriate storage bin/cabinet.
 5. Sweep floor and table top under and around your workstation.

Clean, sweep, and/or vacuum shared equipment immediately after use.

Graded Participation- Weekly cleanup duties

Weekly cleanup duties will be assigned during the second week of class. You will be responsible for a cleanup of your assigned area.

Points will be given for active participation in daily and weekly cleanup duties.

Lab access outside of class

Because specialized equipment is necessary in the completion of class projects, students must be prepared to work outside of class during posted open lab hours. Open lab hours are times in which no class is in session and a trained lab monitor is in charge of opening and overseeing the lab for safety and compliance. You are encouraged to use this time to perfect techniques covered in class, experiment with techniques learned through independent projects, and create extra credit pieces. Open lab is a privilege that is only sustainable through the cooperation of all lab users. Abuse of lab access or rules will result in limiting or closing lab hours.

Responsibilities of lab monitors

Lab monitors do not teach and are not responsible for cleaning up after you. Lab monitors are volunteers that have been trained in classroom safety and protocol. **They are not permitted to train you on equipment.** During lab time the lab monitor is there to monitor the lab to ensure safety and compliance. Lab monitors should be notified of any injury or incident immediately in order to maintain health and safety. Broken or missing equipment should also be reported to the lab monitor immediately. Lab monitors may ask you to verify lab use eligibility and reserve the right to ask you to leave due to an infraction of lab protocol.

Making up missed work

It is YOUR responsibility to make arrangements to make up missed demos, acquire notes from missed lectures and to contact me with special circumstances regarding attendance and late work.

Contact your peers to keep up to date on any information you may have missed due to an absence.

Peer contacts: Name, phone number, and email

1. _____
2. _____

- Email me at michal.niv@sjsu.edu to set up an appointment during office hours or to request an appointment outside of office hours. If you cannot make office hours please include three times you are available to meet.
- You may come to my office hours for drop-in visits however this is first-come first-served and is limited to the time posted.

Open lab hours are not my office hours. You may see me in class from time to time during open lab hours. Unless you have made arrangements ahead of time, this is not a time to ask for assistance. I use this time to set

up and prep for upcoming classes as well as maintain equipment. If you need to talk to me do not assume I will be present during open lab hours. Your consideration allows me to maintain the classroom while still offering as much access to the lab as possible.

[University policy F69-24](http://www.sjsu.edu/senate/docs/F69-24.pdf) at <http://www.sjsu.edu/senate/docs/F69-24.pdf> states, “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.”

Students using lab must:

- Be enrolled in Art 47, 147 or 149, unless otherwise cleared by instructor and granted volunteer status with HR.
- Always abide by general shop safety protocol as outlined in class and posted signs.
- Never operate equipment without being cleared by instructor.
- Never allow a friend or relative not enrolled in one of the classes listed above to use or operate any equipment.
- Never operate any equipment under the influence of medication, illegal substances, or alcohol – none of these substances are allowed in the lab at any time unless I am notified of the medication along with a doctor’s note.
- Infraction of this rule will result in loss of lab privileges and possible legal action.
- Always be respectful of lab assistants in charge of open lab hours. If you are asked to stop doing something or asked to leave, do so immediately. Talk to me directly if you feel there was any unfair treatment. You may email me at yvonne.escalante@sjsu.edu and/or come by my office, Art 321 during posted office hours.
- Never cast or use equipment while alone.

Clothing

- Always wear close-toed shoes during class and lab hours even if you are not operating equipment.
- Keep long hair securely pulled back and remove any dangling jewelry or accessories (such as earbuds) before operating equipment.
- Remove any loose clothing that could get caught up in equipment prior to operation.
- Always wear safety glasses when operating equipment.
- When casting, you are required to have fire resistant clothing on. Avoid synthetic fabrics such as polyester that can flash at low temperatures, resulting in severe burns. Long cotton or canvas pants such as jeans are required on casting days.
- Failure to comply with the shop clothing protocol will result in loss of lab privileges for the day or until outfit is changed.

Demos and lectures

You are required to attend all demos and lectures. You will not be allowed to use tools/equipment until I have checked you off. If you are going to miss a class, it is your responsibility to schedule a makeup demo with me before continuing with the project. This will also affect your participation grade as outlined in the grading rubric. You are required to keep a dedicated notebook for taking notes during these demos and lectures.

Laptops and cell phones

Laptops are allowed for class research only but are not required. **Cell phones must remain off during demos**

and lectures. Failure to do so will be treated as a missed demo.

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See [University Policy S90-5](http://www.sjsu.edu/senate/docs/S90-5.pdf) at <http://www.sjsu.edu/senate/docs/S90-5.pdf>. More detailed information on a variety of related topics is available in the [SJSU catalog](http://info.sjsu.edu/web-dbggen/narr/catalog/rec-12234.12506.html), at <http://info.sjsu.edu/web-dbggen/narr/catalog/rec-12234.12506.html>. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's [Catalog Policies](http://info.sjsu.edu/static/catalog/policies.html) section at <http://info.sjsu.edu/static/catalog/policies.html>. Add/drop deadlines can be found on the current academic year calendars document on the [Academic Calendars webpage](http://www.sjsu.edu/provost/services/academic_calendars/) at http://www.sjsu.edu/provost/services/academic_calendars/. The [Late Drop Policy](http://www.sjsu.edu/aars/policies/latedrops/policy/) is available at <http://www.sjsu.edu/aars/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the [Advising Hub](http://www.sjsu.edu/advising/) at <http://www.sjsu.edu/advising/>.

Consent for Recording of Class and Public Sharing of Instructor Material

[University Policy S12-7](http://www.sjsu.edu/senate/docs/S12-7.pdf), <http://www.sjsu.edu/senate/docs/S12-7.pdf>, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”
- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The [University Academic Integrity Policy S07-2](http://www.sjsu.edu/senate/docs/S07-2.pdf) at <http://www.sjsu.edu/senate/docs/S07-2.pdf> requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sjsu.edu/studentconduct/) is available at <http://www.sjsu.edu/studentconduct/>.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. [Presidential Directive 97-03](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the [Accessible Education Center](http://www.sjsu.edu/aec) (AEC) at <http://www.sjsu.edu/aec> to establish a record of their disability.

Art 147/ Topics in Metalsmithing and Jewelry, Spring 2017, Course Schedule

Schedule is subject to change with fair notice. Changes will be announced in class and on the class Canvas page.

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	1/27/17	<p>Introduction, syllabus, and intro to Exercise 1</p> <p>Tool Demo: Saw, Drill press, Files</p> <p>Beginners - Start making the sawing sample in Aluminum Advanced –work on link designs</p> <p>Tool Demo: Torch, Hammers, Rolling Mill, Pickle</p> <p>Textures: hammers and embossing</p> <p>Homework (beginners): 1. Watch Tim McCreight: The Complete Metalsmith chapters: Intro, Cutting and Joining (3 videos) 2. Complete your sawing sample</p> <p>Homework (all): complete link designs and start applying texture on your metal parts.</p> <p>Homework (advanced): watch Tim McCreight: The Complete Metalsmith chapters: Joining and Surfaces (2 videos)</p>
2	2/03/17	<p>Tool Demo: Foredom (flexshaft rotary tool), Buffing wheels</p> <p>Work on cutting and finishing links</p> <p>Demo: Rivets</p> <p>Cut tubes and prepare for hinges</p> <p>*LAST DAY TO DROP – 2/7/17</p> <p>Homework (all): Finishing and assembling</p>
3	2/10/17	<p>Intro to Project 1</p> <p>Homework: Think about toys, bring small machines and other inspiration materials + sketches of ideas to next class (2/17)</p> <p>Demo: Creating a file for laser cutting on Illustrator, Laser cutting process.</p> <p>Exercise 1 and sawing practice pieces are due by the end of class.</p>
4	2/17/17	<p>Canvas discussion entry #1 due</p> <p>Class discussion: “Toy Ring” - Share your ideas in class</p> <p>Lecture: moving parts and connective systems. Planning and create process timeline.</p> <p>Demo: Soldering 101 and making ring shank</p> <p>Start creating you pattern and your machine model(s)</p> <p>Homework: Create patterns and material list. Final pattern due 2/24</p> <p>Demo: Rivets for motion and spacers.</p>
5	2/24/17	<p>Workday and Laser Cutting option.</p> <p>Homework: review notes for hazmat test</p>
6	3/03/17	<p>Hazmat test</p> <p>Intro to project 2</p>

		Work day Homework: Read On Canvas: Artist_Beware_Jewelry.pdf Read the section on Enameling, p. 462- 468
7	3/10/17	Workday Homework: Enameling take-home test
8	3/17/17	Critique Project 1 Demo: Enameling: Preparing your metal, counter enamel, Cleaning and protecting your metal from oxidizing, sifting and firing. Demo: building 3D forms for enameling Enamel beginners: Start preparing your copper pieces for samples Advances students: Brainstorm and start working on your necklace design
9	3/24/17	Turn in the home test Demo: wet packing, Sgraffito and masking. Beginners: enamel your sample pieces Advanced: Make paper model for your design. Troubleshoot and re-adjust the parts to be functional and wearable.
10	3/31/17	Spring recess – No class
11	4/07/17	Demo: Connective systems for enameling: Rivets and jump rings Advanced students: Applying and firing Decals on enamel Written assignment due (500 words) Individual meetings Work on Project 2
12	4/14/17	Canvas discussion entry #2 due Final patterns due, class presentation and discussion Workday
13	4/21/17	Demo: simple clasps Workday
14	4/28/17	Workday
15	5/05/17	Workday
16	5/12/17	Project 2 due - Final Critique
Final Exam	5/24/17 7:15am-9:30 am	Mandatory class clean up and art pick up