Art 242: Metal  
Units: 2.0  
SPRING 2018—Friday—11:00-1:50 pm

**IMPORTANT:**
The general formula for contact hours is as follows:
Courses must meet for a minimum of one 50 minute session per unit per week over a fifteen-week semester. Standard fall and spring sessions require a final summative experience during the University scheduled final exam day and time.

(Please refer to the Contact Hours Reference, located at arr.usc.edu/services/curriculum/resources.html.)

**Location:** WAH 108

**Instructor:** Brian Olson  
**Office:** WAH 108  
**Office Hours:** Friday before class, please make appointment  
**Contact Info:** bolson@usc.edu

**Sculpture Technician:** Jay Lizo  
**Hours of Service:** M-F 9-5  
**Contact Info:** lizo@usc.edu.

Revised July 2016
Course Description
Designed to explore techniques and philosophies of working with ferrous and non-ferrous metals. Explorations in welding and forging. Combining metals with other traditional and non-traditional sculpting materials will be encouraged in order to give a strong understanding in the versatility of art metals and its application. Students will be urged to produce individualized items and developing an understanding of art metal and its place in the fine arts field.

Learning Objectives
Upon completion of this course students will be able to:

● Safely work with mild steel to construct complicated and unique 2D and 3D objects.
● Discuss and use elements and principles of metalsmithing as they relate to the practice of fine art
● Use various metal working tools (welder, plasma cutter, forge, box break, roller, shear) to create artwork.
● Cast metal (bronze and/or aluminum) using the “lost wax” process

Prerequisite(s): N/A
Co-Requisite(s): N/A
Concurrent Enrollment: N/A
Recommended Preparation: None
Course Notes
In addition to the scheduled classes, you will be required to attend the bronze pour, (usually scheduled on a Thursday night from 9 pm – 2 am between week 11-14.) You will be released from class on the following Friday morning and have an additional class release to compensate.

Required Resources
Notebook and safety gear including leather boots and gloves.

Required Readings and Supplementary Materials
Sculpture Kit (Available from tool crib.)

Description and Assessment of Assignments
Introduction to metal concepts in the creation of fine art. Equal emphasis on safety, technical proficiencies and effective solutions in working with a variety of metals.
Grading Breakdown
Students will be graded primarily on completed bronze project. The midterm test, quizzes (verbal and written) and attendance will have impact on the final grade.

Including the above detailed assignments, how will students be graded overall? Participation should be no more than 15%, unless justified for a higher amount. All must total 100%.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>% of Grade</th>
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</thead>
<tbody>
<tr>
<td>Bronze Assignment</td>
<td>50</td>
<td>50%</td>
</tr>
<tr>
<td>Welding Assignment</td>
<td>25</td>
<td>25%</td>
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<tr>
<td>Participation</td>
<td>15</td>
<td>15%</td>
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<tr>
<td>Midterm</td>
<td>10</td>
<td>10%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>100</td>
<td>100%</td>
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Grading Scale
Course final grades will be determined using the following scale
A    95-100
A-   90-94
B+   87-89
B    83-86
B-   80-82
C+   77-79
C    73-76
C-   70-72
D+   67-69
D    63-66
D-   60-62
F    59 and below

Assignment Submission Policy
All projects must be photographed and submitted via email.

Grading Timeline
Announce a standard timeline for grading and feedback.

Additional Policies
Students are required to attend class regularly. You will not be able to use any equipment that was discussed in Safety lectures or demonstrated during your absences (or missed being late for class). This will impact your ability to perform assignments and result in a lower grade.
Course Schedule: A Weekly Breakdown

The following schedule will provide an overview of assignments and dates, which we will try to maintain. These dates may change due to weather, University events and bronze pour (see course notes above.)

Classes will meet weekly and be composed of two parts. The first part will consist of a lecture and demonstration; the second part will be a lab time for students to gain hands on experience. Students who miss any safety information will not be able to use equipment.

IMPORTANT:
In addition to in-class contact hours, all courses must also meet a minimum standard for out-of-class time, which accounts for time students spend on homework, readings, writing, and other academic activities. **For each unit of in-class contact time, the university expects two hours of out of class student work per week over a semester.**

(Please refer to the Contact Hours Reference at [arr.usc.edu/services/curriculum/resources.html](http://arr.usc.edu/services/curriculum/resources.html).)

<table>
<thead>
<tr>
<th>Topics/Daily Activities</th>
<th>Readings and Homework</th>
<th>Deliverable/ Due Dates</th>
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<tbody>
<tr>
<td><strong>Week 1</strong></td>
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<tr>
<td>Introduction to metal Lecture on safety equipment and gear.</td>
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<tr>
<td><strong>Week 2</strong></td>
<td>Hand out 1st project</td>
<td>Project 1 due week 6</td>
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<tr>
<td>Introduction to welding: oxy-acetylene.</td>
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<tr>
<td><strong>Week 3</strong></td>
<td>Review notes from previous week and practice</td>
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<tr>
<td>Welding demonstration &amp; cutting demonstration with the wire feed welder and the plasma cutting system.</td>
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<td><strong>Week 4</strong></td>
<td>Review notes from previous week and practice</td>
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<tr>
<td><strong>Week 5</strong></td>
<td>Review notes from previous week and practice</td>
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<tr>
<td><strong>Week 6</strong></td>
<td>Review notes from previous week and practice</td>
<td>Project 2 is due week 15/Finals week</td>
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<tr>
<td>Lecture and demonstration on metal forging</td>
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<tr>
<td><strong>Week 7</strong></td>
<td>Hand out 2nd project</td>
<td>Bring in Sketches for Project 2 week 8</td>
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<tr>
<td>Midterm Test</td>
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<td><strong>Week 8</strong></td>
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<td>Lecture &amp; demonstrate the “lost wax” process of bronze casting.</td>
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<td><strong>Week 9</strong></td>
<td>Work on project</td>
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<td>Demonstration on mold making</td>
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<td><strong>Week 10</strong></td>
<td>Complete wax assignment</td>
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<tr>
<td>Demonstration on gating and venting</td>
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Week 11
Demonstration on working with microcrystalline and paraffin.
Complete Sprue

Week 12
Lecture and demonstration on investments including coating the wax mold.
Complete Investment

Week 13
Lecture on “burning out” investments.

Week 14
Intro/Safety/Demo – Pouring Bronze.

Week 15
Demonstration on finishes.
Final critique on 3rd project and

FINAL
Demonstration on shooting images for Final Portfolio and Submission
Date: For the date and time of the final for this class is consistent with USC Schedule of Classes at www.usc.edu/soc.

Statement on Academic Conduct and Support Systems

Academic Conduct
Plagiarism – presenting someone else's ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, “Behavior Violating University Standards” https://policy.usc.edu/student/scampus/part-b. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, http://policy.usc.edu/scientific-misconduct.

Discrimination, sexual assault, intimate partner violence, stalking, and harassment are prohibited by the university. You are encouraged to report all incidents to the Office of Equity and Diversity/Title IX Office http://equity.usc.edu and/or to the Department of Public Safety http://dps.usc.edu. This is important for the health and safety of the whole USC community. Faculty and staff must report any information regarding an incident to the Title IX Coordinator who will provide outreach and information to the affected party. The sexual assault resource center webpage http://sarc.usc.edu fully describes reporting options. Relationship and Sexual Violence Services https://engemannshc.usc.edu/rsvp provides 24/7 confidential support.

Support Systems
A number of USC’s schools provide support for students who need help with scholarly writing. Check with your advisor or program staff to find out more. Students whose primary language is not English should check with the American Language Institute http://ali.usc.edu, which sponsors courses and workshops specifically for international graduate students. The Office of Disability Services and Programs http://dsp.usc.edu provides certification for students with disabilities and helps arrange the relevant accommodations. If an officially declared emergency makes travel to campus infeasible, USC Emergency Information http://emergency.usc.edu will provide safety and other updates, including ways in which instruction will be continued by means of Blackboard, teleconferencing, and other technology.