

## **Syllabus**

### **ART 3734/3715 Sculpture: Metals**

**Spring 2020 3 credit hours** Room B-1 FAC and Metal Shop

University of Florida School of Art + Art History

**Visiting Assistant Professor: David Bogus**

Class Hours M/W 3:00pm – 6:00pm

Office: FAC B15 Office

Office Hours: M/W 2 – 3 PM

and by appointment

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**Graduate Teaching Assistant: Kayla Burnett**

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**SCULPTURE: METALS** Introduction to materials, methods and concepts of fabrication in metals with a primary focus on steel along with an introduction to lost-wax bronze casting. You will explore the material properties and expressive potential of steel and many of the fabrication processes used in shaping metals. You will combine the use of materials and methods with ideas that trace the history of 20th century sculpture in metals with a particular focus on contemporary practice.

Emphasis is placed on materiality, the formal properties of a sculpture, the technical processes used in the making of a metal sculpture, and the achievement of a reasonable level of mastery of the technical aspects of metal fabrication. You will be introduced to gas welding, brazing, arc welding, MiG welding, TiG welding, mechanical means of fabrication involving the use of the metal band saw, brake, roller, and cold methods of fabrication such as riveting and bolting. The final project will introduce you to the ancient process of lost-wax bronze casting using the contemporary technology of ceramic shell mold-making. This is a highly technical course.

**Canvas** e-learning will be used for this class for calendar, announcements, email and course materials and some assignments. You are responsible to check this site before & after each class in preparation for homework and follow up. <https://lss.at.ufl.edu/>

### **COURSE EXPECTATIONS:**

**Attendance Policy:** Attendance will be taken at the beginning of each class; tardiness will be noted and will affect your grade. This is not a class you can get notes from your classmates – you need to be in class and participating to learn. It is expected that you will attend regularly and be on time. Group demonstrations and lectures, individual tutorials, and discussions will be scheduled for many class periods. At other times you will be expected to be working in your area.

Please be on time for class. Plan to arrive no later than 3:05pm and immediately prepare to start working. Arriving late disturbs class. I make important announcements at the start of

class. Plan ahead for traffic, parking, etc. so you will not have problems getting to class on time. Attendance is required at all classes, critiques, and field trips. More than three absences over the semester will result in a grade reduction of 1/3 of one letter grade of your semester average for each accumulation of more than three absences. For example: if you have 4 absences and your semester grade is a B+, your grade will drop to a B; if you have 7 absences your grade will drop to a B-; and so on. Three significantly late arrivals/early departures (10 minutes or more) will constitute one absence. You are expected to work on projects during class time and outside of class during the times when the Metal Shop is open and under the supervision of either the Teaching Lab Specialist or a Shop Monitor. You are not allowed to work in the Metal Shop without supervision. You must always sign-in, both during class time and at all other times. Working at home is not considered attendance. Attendance at all critiques is absolutely mandatory. If you are not present for critiques your project will not be critiqued by the class as a whole. Please be in class on time because all announcements, lectures, videos, demonstrations and presentations will take place at the beginning of class.

*The university recognizes the right of the individual professor to make attendance mandatory. After due warning, professors may prohibit further attendance and subsequently assign a failing grade for excessive absences. Students are responsible for satisfying all academic objectives as defined by the instructor. Students who do not attend at least one of the first two class meetings of a course or laboratory in which they are registered, and who have not contacted the department to indicate their intent, may be dropped from the course.*

**PROJECTS** must be completed by the due dates. Due dates will only be delayed for the class as a whole, not for individuals. Projects completed late will receive a grade reduction commensurate with the reason for the lateness and with the extent of the lateness. A schedule of due dates will be given out with each project.

**CRITIQUES** are an essential part of the practice of art and require a strong commitment on the part of all students and the professor. Critique is the educational equivalent of exhibition. Therefore, work must be ready for critique and you must be in attendance at critique. ACTIVE AND THOUGHTFUL participation is required. Physical attendance alone does not constitute participation in critique. You will be graded on the quality of your participation in critique.

**READINGS and visual presentations** are required with each project and responses to these activities are due in writing, for discussion, or for presentation on the date assigned. Since readings are selected because of their relationship to the concepts underlying each project, they must be completed at the beginning of each project and, for that reason, written responses must be completed in a timely fashion. Late responses will receive a reduced grade. In no case will late responses to readings be accepted **after** the project itself is due.

#### **SUMMARY OF THE PROJECTS:**

**Sculpture Metals:** consists of three projects, three sets of readings, and three critiques.

PROJECT #1: Pencil Rod and Basics of Welding

PROJECT #2: Outdoor Sculpture

PROJECT #3: Lost-Wax Bronze Casting/Mixed Media

**In addition** you are required to complete all the welding exercises assigned. You may not proceed with the projects until you pass the welding exercises. This requirement is pass/fail.

**PROJECT EVALUATIONS:**

Your work will be evaluated on the basis of the following criteria of requirements and expectations:

- Fulfillment of the project objectives as outlined with each project description
- Attention to materiality and craftsmanship.
- Mastery of welding and other techniques.
- Conceptual and material inventiveness
- Overall aesthetic and conceptual quality of the work
- Effort
- Due diligence in matters of safety. Repeated safety violations may result in dismissal from the course.

**Grading:** All projects must be completed on time to receive full credit. Specific due dates are stated on the class calendar posted on CANVAS. Failure to complete any project on time will result in a drop of one full letter grade. Keep in mind, however, late work is better than no work.

**FINAL SEMESTER EVALUATIONS**

20%	Project One: Pencil Rod and Welding Exercises
20%	Project Two: Outdoor Mock Collaborative Sculpture
20%	Project 3: Bronze Casting Mixed Media Sculpture
20%	Technical Mastery of Process and Material
20%	Reading responses, discussions, critique participation & contribution to class
100%	

**UF Grading scale and policies**

Please keep in mind that an excellent student attends class regularly, is on time, keeps the course work schedule, and participates fully and produces superior artwork.

A = excellent, distinguished use of concepts, materials, and execution

B = good use of concepts, materials, execution

C = average

D = marginal

F = unacceptable, failure. No credit.

		<b>B+</b>	89%- 87	<b>C+</b>	79%- 77	<b>D+</b>	69%- 67	<b>F</b>	0
<b>A</b>	94-100	<b>B</b>	86-84	<b>C</b>	76-74	<b>D</b>	66-64		
<b>A-</b>	93-90	<b>B-</b>	83-80	<b>C-</b>	73-70	<b>D-</b>	63-60		

## HEALTH & SAFETY (SEE APPENDIX F TO THIS SYLLABUS)

**SAFETY IS THE MOST IMPORTANT REQUIREMENT OF THIS COURSE. YOU MUST OBEY ALL SAFETY INSTRUCTIONS OR YOU WILL BE ASKED TO LEAVE THE CLASS.**

**RESPIRATOR POLICY: YOU MUST FOLLOW THE RESPIRATOR POLICY FOR THE SAAH.**

### Respiratory Protection

University of Florida Environmental Health and Safety (EH&S) has determined that the use of respiratory protection is not required for projects and activities typically performed in the School of Art + Art History. It is against the School of Art + Art History policy for any instructor to require students to wear respiratory protection however, you may recommend it, and you may voluntarily choose to wear respiratory protection: either an N95 filtering face piece, commonly known as a dust mask, or a tight fitting half or full-face respirator. Any user who chooses to wear such respiratory protection is therefore said to be a voluntary user. Environmental Health and Safety follows or exceeds OSHA 29CFR1910.132-137 standards for Personal Protective Equipment. Any voluntary user: student, faculty, or staff is required to follow all Environmental Health and Safety policy which can be found at: <http://www.ehs.ufl.edu/General/resppol.pdf>.

**SEE BELOW AND APPLY FOR USE OF N95 RESPIRATOR that you will provide for yourselves.**

**YOU MUST READ THE SECTION OF THE H&S POLICY MANUAL ATTACHED TO THIS SYLLABUS.**

**\*PROPER DRESS IS REQUIRED WHENEVER YOU ARE IN THE METAL OR WOOD SHOP.**

**\*YOU MUST WEAR CLOSED TOE LEATHER SHOES IN ALL AREAS OF THE METAL SHOP.**

### **WHAT IS THE PROPER DRESS REQUIRED FOR THE USE OF THE METAL SHOP?**

**Leather boots, shoes,** or leather sneakers are required whenever you are in the Metal Shop. You absolutely may not wear sandals or any open-toe shoes in the Metal Shop at any time. Leather sneakers are acceptable instead of leather shoes, however cloth/synthetic sneakers are not acceptable because they will burn. I strongly recommend that you leave an extra pair of denim pants, a denim or cotton shirt, and a pair of leather shoes in your locker in the sculpture area so that you will always have something appropriate to wear. If you cannot work because you do not have the proper clothing and shoes, that will be considered an absence.

**Caution:** The shop can be especially cold in January since it is not heated. Given this, you should also leave a warm jacket in your locker. Sweaters and fleece may be worn under your denim or leather jacket but do not wear a sweater as an external garment while welding as it may burn.

**Denim and leather** are the most protective materials to wear in the shop. No knits allowed as outerwear.

**Long sleeves and long pants:** Your skin is susceptible to ultraviolet light produced by the Arc, Mig & TIG welders. Whenever welding, you must protect your skin from this cancer-causing light. Always wear **long sleeves and long pants** when arc, mig, and tig welding.

**Always** protect your eyes with **dark lenses** in the form of goggles for oxyacetylene welding and plasma cutting. **Always** use **full head gear** for arc, mig and tig welding. Use **clear full-face. shield and goggles** for grinding. Use **dust mask** when grinding and sanding metal and for any procedures related to ceramic shell. Protect your head and hair with a **scarf or a cap**. Spatter could land in your hair and burn your hair or skin. Bits of molten slag can burn the skin as well as clothing. Although some protective gear is available in the shop, I recommend that you buy your own welding goggles, clear protective eyewear and leather gloves **that fit**. Label these with your name and keep them in your locker.

### **TOOLS AND EQUIPMENT REQUIRED FOR THIS COURSE:**

Leather gloves

Goggles with proper shade for gas welding and plasma cutting

Leather boots/shoes

Long sleeved denim jacket or denim shirt

Hat or headscarf

Tape Measure and Straight Edge

Soapstone marker

Sharpie marker (silver marker is more visible than black marker)

Sanding discs. The shop provides grinding discs but not necessarily sanding discs.

### **MATERIALS REQUIRED FOR THIS COURSE**

**Steel:** You must provide your own steel for the projects in this course. For the welding exercises we have scrap steel that has been donated and you are welcome to use that until it runs out. You can buy steel locally at Boone Welding, Rogers Welding and Gainesville Welding. You can buy recycled steel at Svinga Bros. in Ocala.

**Wax** and Ceramic Shell Mold making materials will be provided however you must provide your own small propane tank and tips for working the wax. You must provide your own rubber for moldmaking.

**Bronze** is **not** provided. Bronze must be purchased through the Art Office. Market Price Per Pound.

**Metal sealants, paints, and finishes:** You will need to purchase your own as needed.

**All other specialized materials must be purchased by the student.**

**TIME COMMITMENT:** This course requires a high degree of technical mastery of all of the equipment and methods that, in turn, requires you to make a high degree of commitment to practice/practice/practice. If you make that commitment and put in the requisite time in the shop, you will succeed. Because of the high demand on a very

limited amount of shop equipment, you will be required to put in a considerable amount of time outside of class during shop hours days, evenings, and weekends.

**STORAGE:** Your metals should be stored in a designated section of the Metal Shop. Label all materials with your name. We are not responsible for lost or stolen materials. **Never leave your materials out on work surfaces if you are not actively working on them.** Your personal tools, footwear and clothing should be stored in your locker.

**REMOVAL OF WORK: Sculptures must be removed from the Sculpture Area at the completion of each project and after the critique unless otherwise instructed by the Professor or the Teaching Lab Specialist. Do not store completed projects in the classroom, in the courtyard, or in the metal shop. All final art works and materials related to this course must be removed after the critique and by Monday April 28th at midnight**

**NOTE:** The School of Art + Art History and its faculty and employees assume no responsibility for any materials or projects left in the classrooms. It is each student's responsibility to remove all materials and projects from the classrooms after a project is completed and graded. If the student needs to make individual arrangements with the instructor to keep any materials after the course has ended, it is the student's responsibility to make these arrangements and only with the instructor's approval. Student grades may be withheld for failure to do so. Any artwork, supplies, or other materials left in the classroom after the final critique has **been completed, without prior specific arrangements with the responsible faculty, will be disposed of as needed.**

**CLASSROOM ACCOMMODATION:** Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

## Appendix F

### Health & Safety Area Specific Information: Sculpture

1. Hazards (inherent) Welding: Welding produces toxic fumes and radiates UV light.

Sanding: Sanding produces toxic and/or irritating dust.

Spray Paint: Spray paint produces toxic fumes, generates liquid hazardous waste in excess paint and solvents used in cleaning (acetone, mineral spirits.)

Epoxy, Bondo, Polyester Resins: These produce toxic fumes and generate both toxic and liquid hazardous waste. Stones containing silica are also toxic when sanded.

Plaster, Cement: Both generate toxic, irritating dust when mixing. Cement is highly alkaline and can burn then skin when exposed.

Silver Soldering: Both electrical and structural soldering produces toxic fumes from flux (hydrochloric acid and phosphors). Solder may contain lead, which is toxic.

## 2. Best Practices

- All students must attend an orientation before using the wood and metal shops. During the orientation all shop rules and policies are presented as well as a discussion of the proper and safe use of shop tools.
- Work in a well-ventilated area while welding; cover all skin.
- Shield eyes with approved lens safety wear.
- Work in well-ventilated area while sanding wood.
- All spray painting must be done in spray booth.
- Resins may not be mixed indoors.
- Wear rubber gloves and use plastic drop cloth to contain chemicals when used.
- Silver soldering should be done in a well-ventilated area.

## 3. Links

<http://www.ehs.ufl.edu/General/resppol.pdf>

<http://www.ehs.ufl.edu/General/Shop/shophome.htm>

## 4. Area Rules

All users of the studio classrooms are expected to follow studio area rules at all times. If you have any questions, ask your instructor.

- Follow all SA+AH Health and Safety handbook guidelines (the handbook should be reviewed by your instructor and can be found at: [www.arts.ufl.edu/art/healthandsafety](http://www.arts.ufl.edu/art/healthandsafety))
- Follow the SA+AH Satellite Waste Management Chart in the Woodshop (B5-A) and other health & safety guidelines posted for your media.
- In case of emergency, call campus police at 392-1111
- File an incident report (forms may be found in the SAAH H&S handbook, the SAAH faculty handbook and in the main office.) Turn completed forms into the SAAH Director of Operations within 48 hours of the event.
- Get permission from shop supervisor before beginning work
- Sign in to use the wood shop **and the metal shop**
- Eye protection must be worn when using any power tools
- Long hair must be tied back
- Hearing protection is available
- Familiarize yourself with the closest eyewash unit
- Shirt tails must be tucked in and loose sleeves rolled up
- Shoes must cover toes
- No loose jewelry allowed in the shop areas
- Clean up your mess
- Students are prohibited from taking home any SA+AH property
- All painting and sanding must be done in the courtyard when weather permits.
- Newspaper or plastic must be used to protect table and floor surfaces from paint, glue and plaster
- Students are prohibited from storing materials or projects in the wood or metal shops
- Do not use stationary equipment to cut painted, recycled or pressure treated lumber
- Dust off tools, tables and sweep the floor when finished using wood tools

- Scrap material must be disposed of immediately
- Tools and shop equipment must be put away in its proper place
- The table saw, jointer and planer are to be used only under the supervision of Brad Smith and any unauthorized usage will result in expulsion from the shops
- No food or drink in the shops
- Only students enrolled in current SA+AH courses who have attended the orientations may use the shops. No visitors while you work.
- Store all flammables in the flammable cabinet. Keep flammable cabinet closed at all times.
- First aid kits are found in each studio. Notify your instructor if supplies are low.
- Locate the nearest eyewash unit and familiarize yourself with its functions.
- Report any safety issues IMMEDIATELY to your instructor.
- All courses must engage in an end of the semester clean up.
- Follow the **SA+AH CONTAINER POLICY** (see policy below)

*There are 2 types of labels used in the SA+AH-- yellow and white. Both labels are found at the red MSDS box and are supplied by the SA+AH. Each is used for a different purpose.*

#### **White:**

All new and or used product in containers (hazardous or what might be perceived as hazardous -i.e. watered down gesso, graphite solutions, satellite containers of solvents, powders, spray paints, fixatives, oils, solvents, etc...) must be labeled within the SA+AH to identify their contents. Labels can be found at the MSDS box in each studio and work area. All containers must be marked with your name, contents and date opened. All secondary/satellite containers for hazardous materials must be marked with content, your name and the date opened. All unmarked containers will be disposed of with no notice.

#### **Yellow:**

WHEN HAZARDOUS ITEMS ARE DESIGNATED AS WASTE.

**All containers** must have a yellow label identifying the contents that are designated as trash for weekly EHS pick up.

- Flammable solid containers (red flip top) must have a yellow hazardous waste label on the outside (top).
- 5 gallon jugs must have a yellow hazardous waste label on the outside.
- Fibrous containers must have a yellow hazardous waste label on the outside (top).
- Each item in the blue bin must have a yellow hazardous waste label.

Note: Hazardous Waste labels should include all constituents in the waste mixture as well as an approximate percentage of the total for that item and must add up to 100%. Labels should also include the Bldg and room number of the shop generating the waste along with the Waste Manager for your area, this is located on the SWMA sign posted at the sink or at the Waste Management Area.



## University Policies:

**Students with disabilities** - I will make every attempt to accommodate students with disabilities. At the same time, anyone requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide you with the necessary documentation, which you must then provide to me when requesting accommodation.

*“Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.”*

## University Policies:

The university’s policies regarding academic honesty, the honor code, and student conduct related to the honor code will be strictly enforced. Full information regarding these policies is available at the following links:

- Academic Honesty: <http://www.registrar.ufl.edu/catalog/policies/students.html#honesty>
- Honor Code: <http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>
- Student Conduct: <http://www.dso.ufl.edu/sccr/honorcodes/conductcode.php>

## Classroom Demeanor

Students in the School of Art and Art History are permitted to have cell phones turned on in class to receive campus safety warnings. It would be appreciated if your phone is placed on vibrate so that there are no disruptions. Casual use of phones is not allowed in the studio during class.

## Disruptive Behavior

Faculty, students, administrative, and professional staff members, and other employees (herein referred to as “member(s)” of the university), who intentionally act to impair, interfere with, or obstruct the mission, purposes, order, operations, processes, and functions of the university shall be subject to appropriate disciplinary action by University authorities for misconduct, as set forth in the applicable rules of the Board of Regents and the University and state law governing such actions. A detailed list of disruptive conduct may be found at: <http://www.aa.ufl.edu/aa/Rules/1008.html>

**Note: Be advised that a student can and will be dismissed from class if he/she engages in disruptive behavior.**

**University Policy for Religious Holidays** The Board of Regents and state law govern university policy regarding observance of religious holidays: Students, upon prior notification of their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances. Further, a student who is to be excused from class for a religious holy day is not required to provide a second party certification of the reasons for the absence.

## University Counseling Services/ Counseling Center:

The Center provides counseling and consultation services to currently enrolled undergraduate and graduate students and their spouses/partners. This is a very helpful resource and it is recommend that if you are having difficulties with the class that are not related to course materials consider checking these services out. 301 Peabody Hall  
Phone: 352-392-1575  
Web: [www.counsel.ufl.edu](http://www.counsel.ufl.edu)

### **Gator Evals:**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.”  
<https://catalog.ufl.edu/UGRD/dates-deadlines/2019-2020/#falltext>