CENTRAL TEXAS COLLEGE  
SYLLABUS FOR ARTS 2341  
ART METALS I  

Semester Hours Credits: 3

INSTRUCTOR: ________________________

OFFICE HOURS: ____________________

I. INTRODUCTION

A. An introduction to jewelry-making and metalworking techniques. Basic fabrication techniques are stressed including bezel settings. Some lost wax casting is included. Prerequisite: None

B. This course, when completed with a passing grade, fulfills three semester hours of college credit.

C. This course can be used as a general elective, or as part of an arts-related degree plan. It fulfills the humanities requirement at Central Texas College.

D. This course serves as an introductory preparation for careers in jewelry making, jewelry repair, and jewelry design. It is also applicable to the arts education and arts therapy field.

E. Prerequisite: none.

F. Alphanumeric coding used throughout the syllabus denotes the integration of SCANS occupational competencies (C) and Foundation skills (F).

II. LEARNING OUTCOMES

Upon successful completion of this course, Jewelry and Art Metals I, the student will be able to:

A. Demonstrate integrity of excellent craftsmanship.

B. Discover a sense of self-development and confidence through following personal creative ideas.

C. Apply awareness of basic design principles.

D. Show mastery of technical information and procedural steps needed to create jewelry and to process gemstones for use in jewelry.
E. Demonstrate proper use, care, and respect for all tools and materials used.

F. Design and construct artworks using non-ferrous metals.

C1, C3, C5, C6, C7, C9, C18, C19, C20, F1, F3, F5, F7, F8, F9 F10, F11, F12, F13, F14, F15

III. INSTRUCTIONAL MATERIALS

A. www.ctcd.edu/books

B. References available in CTC Library
   1. books—Refer to library listings.
   2. Periodicals: American Craft, Ornament, Metalsmith, Lapidary Journal

C. Supplies and Equipment

To be supplied by each student:

1. Pencil, paper, scissors, tape for designing and constructing models
2. Sketch book or paper
3. Box for all supplies and equipment, including tools issued in class
4. Gemstones
5. Metal for jewelry (silver and other non-ferrous metals)

NOTE: Silver is most suitable for the beginning student since it is less expensive than gold but does not pose the oxidation problems of copper and brass.

6. Saw blades - 3 dozen, size 0
7. 3" (approx) C-clamp
8. Wet/dry sandpaper, grits 600, 360, 200 (or near)
9. Miscellaneous items: rags, toothbrush, Q-tips, ammonia

D. Supplies and Major Equipment Used in the Department

1. Direct metal techniques
   a. Hand tools issued to student
   b. Hand tools remaining in department
   c. Repousse' and forging tools
   d. Soldering set-up area and supplies

2. Casting
   a. Investment supplies and flasks
   b. Burnout kiln
   c. Casting torch
   d. Centrifugal caster
   e. Vacuum assist caster
E. Audio Visual Aids:  
   a. Slides and videos as appropriate

IV. COURSE REQUIREMENTS

A. Students are required to read all text and supplemental materials assigned. Pages are listed in course outline and will be announced in class.

B. Projects:
   All projects must be completed and turned in on time. Students are expected to bring all necessary materials to class.

C. Class Performance:
   1. Students are expected to attend every class, be on time, and remain throughout the class.
   2. It is the responsibility of the student to initiate making up any work missed.
   3. Students are expected to maintain civility, courtesy, and scholastic honesty.
   4. Students are expected to participate fully in class discussions and critiques.
   5. Students will be expected to maintain their work area and to properly use, clean, and store equipment and tools each day.

V. EXAMINATIONS

Due to the nature of the course contents, there will be no examination, per se. Instead, students will be graded on the entire body of work done during the semester. Criteria for grading will be given for each project.

VI. SEMESTER GRADE COMPUTATIONS

<table>
<thead>
<tr>
<th>Daily grade (projects) - 85 points</th>
<th>Point-to-Grade Ratio</th>
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</thead>
<tbody>
<tr>
<td>*Incentive points - 15 points</td>
<td>100 - 90 = A</td>
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<tr>
<td></td>
<td>89 - 80 = B</td>
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<tr>
<td>*Earned by attitude and willingness to do more than is absolutely required. Individual progress is also considered to be of major importance.</td>
<td>79 - 70 = C</td>
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<tr>
<td></td>
<td>69 - 60 = D</td>
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<tr>
<td></td>
<td>59 - 0 = F</td>
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</tbody>
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VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM COURSE INSTRUCTOR

A. **Course Withdrawal**: It is the student’s responsibility to officially withdraw from a course if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file a Central Texas College Application for Withdrawal (CTC Form 59). The withdrawal form must be signed by the student.

CTC Form 59 will be accepted at any time prior to Friday of the 12th week of classes during the 16-week fall and spring semesters. The deadline for sessions of other lengths is:

- **10-week session**: Friday of the 8th week
- **8-week session**: Friday of the 6th week
- **5-week session**: Friday of the 4th week

The equivalent date (75% of the semester) will be used for sessions of other lengths. The specific last day to withdraw is published each semester in the Schedule Bulletin.

A student who officially withdraws will be awarded the grade of “W” provided the student’s attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the College before they may be considered for withdrawal.

A student may not withdraw from a class for which the instructor has previously issued the student a grade of “F” or “FN” for nonattendance.

B. **Administrative Withdrawal**: An administrative withdrawal may be initiated when the student fails to meet College attendance requirements. The instructor will assign the appropriate grade on CTC Form 59 for submission to the registrar.

C. **Incomplete Grade**: The College catalog states, “An incomplete grade may be given in those cases where the student has completed the majority of the coursework but, because of personal illness, death in the immediate family, or military orders, the student is unable to complete the requirements for a course...” Prior approval from the instructor is required before the grade of “I” for Incomplete is recorded. A student who merely fails to show for the final examination will receive a zero for the final and an “F” for the course.

D. **Cellular Phones and Beepers**: Cellular phones and beepers will be turned off while the student is in the classroom or laboratory. Cellular phones will be kept out of sight throughout all classes.

E. **American’s With Disabilities Act (ADA)**: Disability Support Services provide
services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at www.ctcd.edu/disability-support for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

F. Instructor Discretion: The instructor reserves the right of final decision in course requirements.

G. Civility: Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion.

H. Guests in Classroom: Adult guests may visit a class with the prior permission of the instructor. Children are not to be brought to any class or the studio areas.

VIII. COURSE OUTLINE

A. **Lesson One:** Introduction to metal working

1. **Learning Outcomes:** Upon successful completion of this lesson, the student will be able to Saw, pierce, file, sand/polish, bend, and patinate non-ferrous metal. A finished art work will be produced.

2. **Learning Activities:**

   a. Instructor lecture and demonstration
   b. Studio practice - production of 1 project
   c. Reading assignment: Chapter 1 and pages as assigned

   (C1, C3, C5, C6, C7, C9, C18, C19, C20, F1, F3, F5, F7, F8, F9 F10, F11, F12, F13, F14, F15)

3. **Equipment and Materials:**

   See supplies and equipment list page 2

4. **Audio Visual Aids:**

   Slides and videos as appropriate

5. **Lesson Outline:**

   a. Design project
   b. Anneal metal
   c. Cut metal
   d. Anneal metal
   e. Bend and hammer and stamp metal
B. **Lesson Two**: Line and Mass,

1. **Learning Outcomes**: Upon successful completion of this lesson, the student will be able to design and execute one aesthetically pleasing piece of jewelry based on Line and Mass. Techniques include forging and bezel-setting a stone. This work will be executed in sterling silver.

2. **Learning Activities**:
   a. Instructor lecture and demonstration
   b. Class discussion
   c. Reading assignment:
   d. Studio practice of designing and making jewelry

(C1, C3, C5, C6, C7, C9, C18, C19, C20, F1, F3, F5, F7, F8, F9, F10, F11, F12, F13, F14, F15)

3. **Equipment and Materials**:

See supplies and equipment list page 2

4. **Audio Visual Aids**:

Slides and videos as appropriate

5. **Lesson Outline**:
   a. Design
   b. Positive/negative forms
   c. Techniques
      (1) sawing
      (2) piercing
      (3) filing
      (4) sanding
      (5) polishing
      (6) soldering
      (7) bezel setting a stone

C. **Lesson Three**: Textural Treatments and Bezel Settings

1. **Learning Outcomes**: Upon successful completion of this lesson, the student will be able to design and execute jewelry utilizing at least two of the surface embellishment techniques presented. Most of this project should be executed in sterling silver.
2. **Learning Activities:**
   
a. Instructor lecture and demonstration  
b. Class discussion  
c. Reading assignment: Chapters 2 and 7  
d. Studio Practice of the above  

(C1, C3, C5, C6, C7, C9, C18, C19, C20, F1, F3, F5, F7, F8, F9 F10, F11, F12, F13, F14, F15)  

3. **Equipment and Materials:**
   
See supplies and equipment list page 2  

4. **Audio Visual Aids:**
   
Slides and videos as appropriate  

5. **Lesson Outline:**
   
a. Embellishment techniques - selected from the following  
   (1) Hammering  
   (2) Stamping  
   (3) Roller Printing  
   (4) Reticulation  
   (5) Fusing  
   (6) Enameling  
   (7) Inlay - married metals, applique  
   (8) Weaving metal  
   (9) repousse’  

D. **Lesson Four:** Lost Wax Casting or Found Object Construction  

1. **Lesson Outcomes:** Upon successful completion of this lesson, the student will be able to use basic techniques of preparing and casting by the lost-wax method. Or will choose to utilize techniques learned to make a found object construction. A finished work will be presented.  

2. **Learning Activities:**
   
a. Instructor lecture and demonstration  
b. Class discussion  
c. Reading assignment: Chapter 8
d. Studio practice

(C1, C3, C5, C6, C7, C9, C18, C19, C20, F1, F3, F5, F7, F8, F9, F10, F11, F12, F13, F14, F15)
3. **Equipment and Materials:**

See supplies and equipment list page 2

4. **Audio Visual Aids:**

Slides and videos as appropriate

5. **Lesson Outline:**

a. Techniques for lost-wax method
   (1) design and manipulation of wax
   (2) proper handling of investment procedure
   (3) computing metal needed
   (4) application of known techniques to finish piece

b. Techniques for 3-D Construction
   (1) design and layout of model
   (2) soldering, bending, shaping parts
   (3) assembly of parts – soldering or cold connecting