GROSSMONT COLLEGE

COURSE OUTLINE OF RECORD

Curriculum Committee Approval: 11/29/2022

Approved by GCCCD Governing Board: 12/13/2022

ART 133 – METALSMITHING & CASTING

1. Course Number Course Title Semester Units

ART 133 Metalsmithing & Casting 3

Semester Hours

2 hours lecture; 4 hours laboratory; 96-108 total hours

2. Course Prerequisites

A “C” grade or higher or “Pass” in Art 131 or equivalent.

Corequisite

None

Recommended Preparation

None

3. Catalog Description

An advanced course that introduces both the fundamentals of metalsmithing and casting processes. Through a lens of inclusion, the design and fabrication of holloware and metal objects as well as the historical development of metalsmithing will be introduced. Considering cultural diversity, different methods of casting will be explored including lost wax casting and casting organic materials. Mold making processes will also be introduced and students will be able to express their personal aesthetic through a series of individual projects.

4. Course Objectives

The students will:

1. Examine new developments in metal design technology.
2. Propose designs reflecting a set of personal objectives with clearly defined goals.
3. Estimate prerequisites required to form, construct and assemble designs supporting the student’s personal goals and objectives.
4. Design and fabricate envisioned works demonstrating the ability to solve a wide variety of technical problems.
5. Compose and construct work demonstrating a knowledge of the elements of professional design and craftsmanship.
6. Develop the ability to critique completed projects and effectively articulate the basis of evaluation in a group setting.

5. Instructional Facilities

A classroom outfitted for jewelry design including:

1. Wax investment burnout kiln
2. Centrifugal casting machine
3. Drill press
4. Flexible shaft machine
5. Two person polishing machine
6. Hammer and stakes
7. Portable anvils
8. Metal etching and finishing equipment
9. Lighting
10. Electric power with G.F.I. circuits
11. Sinks with traps
12. Dust removal & acid ventilation
13. Secured storage area
14. Standard classroom

6. Special Materials Required of Student

The student will purchase items on the required tools and materials list

7. Course Content

1. Introduction to the techniques of lost wax casting, mold making, and hollow form metalsmithing processes from different cultures.
2. Information regarding professionalism in the jewelry design and metals field, including marketing, exhibiting, and training practices.
3. Safe handling of art materials and equipment used in jewelry design.
4. Emphasis will be placed on refinement and enhancement of skills used to plan and estimate materials used in the jewelry design process.

8. Method of Instruction

1. Lecture and demonstrations as well as individual instruction in a design lab setting
2. Diverse visual aids such as PPT presentations and videos as well as field trips to cultural institutions
3. Students will participate in group and individual critiques

9. Methods of Evaluating Student Performance

1. Instructor evaluation of hands-on methodology that demonstrates student proficiency.
2. Written competency tests on lecture materials.
3. Evaluation of student project performance in terms of design and craftsmanship including preparation for in-class work.
4. Evaluation of student notebooks and written reports produced for class that explore Indigenous or other underrepresented or marginalized cultural community jewelry design concepts and methods.
5. Final comprehensive evaluation of completed student projects.

10. Outside Class Assignments

1. Students may be required to attend exhibitions at local art museums and galleries when relevant to course content.
2. Preparation and writing of student notebooks that explore Indigenous or other underrepresented or marginalized cultural community jewelry design concepts and methods.
3. A portion of assigned work on student projects will be completed outside of lab hours.

11. Representative Texts

a. Representative Text(s):

1) McCreight, Tim. *The Complete Metalsmith, ProPlus Edition*. Sterling Publishing, New York, NY; 2009.

b. Supplementary texts and workbooks:

1) Untracht, Oppi. *Jewelry Concepts and Technology*. Doubleday; New York, NY; August 17, 1982.

Addendum: Student Learning Outcomes

Upon completion of this course, our students will be able to do the following:

1. Establish the student’s technical expertise of both metalsmithing and casting processes.
2. Expand the student’s understanding of the way body adornment and objects of utility can communicate concepts.