



El Camino College

COURSE OUTLINE OF RECORD - Official

I. GENERAL COURSE INFORMATION

Subject and Number: Art 275
Descriptive Title: Jewelry Casting

Course Disciplines: Art

Division: Fine Arts

Catalog Description: This course covers the casting process as it relates to the field of jewelry. Model making, lost wax casting, and mold making will be introduced. Design skills and concepts will be developed through individual projects.

Conditions of Enrollment: Prerequisite
Art 173
with a minimum grade of C

Course Length: ☒ Full Term ☐ Other (Specify number of weeks):
Hours Lecture: 2.00 hours per week ☐ TBA
Hours Laboratory: 4.00 hours per week ☐ TBA
Course Units: 3.00

Grading Method: Letter
Credit Status: Associate Degree Credit

Transfer CSU: ☒ Effective Date: Prior to July 1992
Transfer UC: ☐ No

General Education:

El Camino College: _____

CSU GE: _____

IGETC: _____

II. OUTCOMES AND OBJECTIVES

A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

1. Within the studio context, students will demonstrate competency with basic hand tools through a safety test to include terms and procedures; Students will demonstrate appropriate use of tools in a hands on demonstration.

The above SLOs were the most recent available SLOs at the time of course review. For the most current SLO statements, visit the El Camino College SLO webpage at <http://www.elcamino.edu/academics/slo/>.

B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)

1. Develop and analyze original sketches and designs to be translated into small metal objects and jewelry using the casting process.
Homework Problems
2. Identify and utilize a variety of casting techniques employing the correct tools, materials, and equipment.
Other (specify)
individual projects
3. Identify and employ the principles of visual organization as they apply to cast jewelry and small cast objects.
Homework Problems
4. Evaluate and critique finished art work in terms of aesthetics, conceptual content, and visual effectiveness.
Presentation
5. Identify and define technical terminology relevant to jewelry casting.
Quizzes
6. Demonstrate and evaluate production and presentation methods
Other (specify)
individual projects
7. Demonstrate the proper storage and maintenance of studio tools and equipment
Quizzes

III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	14	I	A. Organization and development of individual designs 1. Design i. Historic and contemporary aesthetics ii. Functional considerations iii. Materials 2. Critique
Lecture	18	II	A. Instruction in technical procedures required to produce a cast jewelry object 1. Vocabulary 2. Tools and Equipment 3. Safety 4. Studio Techniques

Lecture	4	III	A. Portfolio Review
Lab	12	IV	A. Development of individual designs and strategies 1. Drawing and Sketching 2. Modelmaking
Lab	60	V	A. Analysis and application of Studio techniques: 1. Wax working 2. Sprueing 3. Investing 4. Burn-out 5. Centrifugal casting 6. Vacuum casting 7. Lost wax casting 8. Bi-metal casting 9. Mold-making 10. Finishing
Total Lecture Hours		36	
Total Laboratory Hours		72	
Total Hours		108	

IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

A. PRIMARY METHOD OF EVALUATION:

Skills demonstrations

B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

Design a bracelet with multiple stone settings. Apply contemporary jewelry aesthetics and functional considerations as they relate to all phases of the casting process. Create an original wax model with appropriate stone settings. Sprue, invest, and cast the model. Finish the casting by filing, sanding, polishing and, when appropriate, patination.

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. Design, develop and create a small metal object based on an original form concept. Construct a model, sprue, invest and cast. Finish, patinate, and when appropriate, attach the finished casting to a mount.
2. Design, cast, and assemble a repeating multiple linkage bracelet. Using an originally designed master model, make a vulcanized rubber mold. From the mold, generate multiple wax duplicates. Sprue, invest, and cast each wax duplicate. Assemble each of the duplicate castings and finish.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

Performance exams
Other exams
Quizzes
Written homework
Class Performance
Homework Problems
Multiple Choice
Completion
Other (specify):
Critique of assigned projects

V. INSTRUCTIONAL METHODS

Demonstration
Discussion
Field trips
Group Activities
Guest Speakers
Internet Presentation/Resources
Laboratory
Lecture
Other (please specify)
critiques, individual conference.

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. WORK OUTSIDE OF CLASS

Required reading
Problem solving activities
Journal
Observation of or participation in an activity related to course content

Estimated Independent Study Hours per Week: 4

VII. TEXTS AND MATERIALS

A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS

Color, Texture and Casting for Jewelers. Codina, Carles. 1 ed. Lark Books, 2011.

B. ALTERNATIVE TEXTBOOKS**C. REQUIRED SUPPLEMENTARY READINGS****D. OTHER REQUIRED MATERIALS**

Sterling Silver and or Bronze as needed, casting waxes, sandpaper, saw blades, safety goggles, dust mask, notebook

VIII. CONDITIONS OF ENROLLMENT**A. Requisites (Course and Non-Course Prerequisites and Corequisites)**

Requisites	Category and Justification
Course Prerequisite Art-173	Sequential

B. Requisite Skills

Requisite Skills
Employ sawing, soldering, filing, annealing, and finishing techniques appropriate to jewelry making and metalsmithing. ART 73AB - Create finished jewelry employing sawing, filing, annealing, soldering, forming, surface embellishment, stone setting, casting, and polishing.
Design and create basic jewelry. ART 73AB - Develop and sketch original jewelry designs. ART 73AB - Identify and utilize precious and ferrous metals, precious and semi-precious stones, and copper-based alloys to create finished jewelry. ART 73AB - Analyze and apply the technical processes necessary to produce finished jewelry objects.
Identify and safely use the tools, materials, and machinery related to jewelry making and metalsmithing. ART 73AB - Define jewelry and metalsmithing terminology and outline safe studio practices.

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
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D. Recommended Skills

Recommended Skills

E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
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Course created by Irene Mori on 04/01/1988.

BOARD APPROVAL DATE:

LAST BOARD APPROVAL DATE:

Last Reviewed and/or Revised by Irene Mori on 02/26/2013