



El Camino College
COURSE OUTLINE OF RECORD – Official

Course Acronym:	ART
Course Number:	275
Descriptive Title:	Jewelry Casting
Division:	Fine Arts
Department:	Art
Course Disciplines:	Art
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.
Prerequisite:	Art 173 with a minimum grade of C
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	2
Hours Laboratory (per week):	4
Outside Study Hours:	4
Total Course Hours:	108
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	Prior to July 1992
Transfer UC:	No
Effective Date:	
General Education: ECC	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	
Term:	
Other:	
CalGETC:	
Term:	

Other:	
Student Learning Outcomes:	<p>SLO #1 Synthesis of Design Principles</p> <p>Students will be able to synthesize, and apply the principles of Jewelry design and appropriate casting practices to create an original finished jewelry object.</p> <p>SLO #2 Terminology</p> <p>Students will be able to define and explain terminology, methods and materials, appropriate to the jewelry casting.</p> <p>SLO #3 Craftsmanship</p> <p>Students will be able to evaluate a cast jewelry object relative to concept, design and control of the medium (craftsmanship) through written and oral communication.</p>
Course Objectives:	<ol style="list-style-type: none"> 1. <ol style="list-style-type: none"> 1. Develop and analyze original sketches and designs to be translated into small metal objects and jewelry using the casting process. 2. Identify and utilize a variety of casting techniques employing the correct tools, materials, and equipment. 3. Identify and employ the principles of visual organization as they apply to cast jewelry and small cast objects. 4. Evaluate and critique finished art work in terms of aesthetics, conceptual content, and visual effectiveness. 5. Identify and define technical terminology relevant to jewelry casting. 6. Demonstrate and evaluate production and presentation methods. 7. Demonstrate the proper storage and maintenance of studio tools and equipment.
Major Topics:	<p>I. Organization and development of individual designs (14 hours, lecture)</p> <p>A. Design</p> <ol style="list-style-type: none"> 1. Historic and contemporary 2. Aesthetics 3. Functional considerations 4. Materials <p>B. Critique</p> <p>II. Instruction in technical procedures required to produce a cast jewelry object (18 hours, lecture)</p> <ol style="list-style-type: none"> A. Vocabulary B. Tools and Equipment C. Safety D. Studio Techniques <p>III. Portfolio Review (4 hours, lecture)</p> <p>IV. Development of individual designs and strategies (12 hours, lab)</p> <ol style="list-style-type: none"> A. Drawing and Sketching B. Model making <p>V. Analysis and application of Studio techniques (60 hours, lab)</p> <ol style="list-style-type: none"> A. Wax working B. Sprueing C. Investing D. Burn-out

	<ul style="list-style-type: none"> E. Centrifugal casting F. Vacuum casting G. Lost wax casting H. Bi-metal casting I. Mold-making J. Finishing
Total Lecture Hours:	36
Total Laboratory Hours:	72
Total Hours:	108
A.1. Primary Methods of Evaluation (Part 1 - CCN courses only):	
A.2. Primary Method of Evaluation (Part 2 - all courses; choose one):	3) Skills demonstration
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.
Critical Thinking Assignment 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.
Critical Thinking Assignment 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.
Other Evaluation Methods:	Class Performance, Completion, Homework Problems, Multiple Choice, Performance Exams, Quizzes, Written Homework
Instructional Methods:	Demonstration, Discussion, Field trips, Group Activities, Guest Speakers, Lab, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Journal (done on a continuing basis throughout the semester), Observation of or participation in an activity related to course content (such as theatre event, museum, concert, debate, meeting), Problem solving activity, Required reading
If Other:	
Up-To-Date Representative Texts:	Color, Texture and Casting for Jewelers. <u>Codina, Carles</u> . 1 ed. Lark Books, 2011. (discipline standard)
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	Sterling Silver and or Bronze as needed, casting waxes, sandpaper, saw blades, safety goggles, dust mask, notebook
Requisite:	Prerequisite
Category:	sequential

Requisite course(s): List both prerequisites and corequisites in this box.	Art 173
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	<p>Employ sawing, soldering, filing, annealing, and finishing techniques appropriate to jewelry making and metalsmithing.</p> <p>ART 173 - Create finished jewelry employing sawing, filing, annealing, soldering, forming, surface embellishment, stone setting, casting, and polishing. Design and create basic jewelry.</p> <p>ART 173AB - Develop and sketch original jewelry designs.</p> <p>ART 73AB - Identify and utilize precious and ferrous metals, precious and semi-precious stones, and copper-based alloys to create finished jewelry.</p> <p>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.</p> <p>ART 73AB - Define jewelry and metalsmithing terminology and outline safe studio practices.</p>
Requisite Skill:	
Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
Requisite course:	
Requisite and Matching skill(s):Bold the requisite skill. List the corresponding course objective under each skill(s).	
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Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Irene Mori
Date:	04/01/1988

Original Board Approval Date:	
Last Reviewed and/or Revised by:	Irene Mori
Date:	02/26/2013