

North Hennepin Community College

ART 1704: Casting - Bench Jewlery

A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This class introduces a variety of casting methods with an emphasis on lost wax casting. Students will learn to sprue and invest wax models, calculate metal requirements, control the burnout cycle and cast projects.

B. COURSE EFFECTIVE DATES: 03/09/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. This course covers the basics of lost wax casting using a centrifugal spin caster. Students will explore wax carving to create unique rings and pendants, cast in sterling silver. Hands-on experience includes sprueing wax models and preparing them for investment, investing and casting flasks, finishing castings and preparing them for rubber molds for production. Learning how to calculate wax to metal ratios, and develop projects that are wearable yet have integrity as a finished product. Rapid prototyping technology will be discussed but not be performed in this class.

D. LEARNING OUTCOMES (General)

1. Competently fabricate jewelry using the casting techniques taught in the course. (NHCC ELOs 1, 2)
2. Effectively integrate elements and principles of jewelry-making in their projects, competently using materials, tools and techniques. (NHCC ELOs 1, 2)
3. Analyze and problem-solve jewelry fabrication issues incorporating aesthetic values into the final product. (NHCC ELOs 1, 2,)

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

1. Knowledge of Human Cultures and the Physical and Natural World; Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.
2. Intellectual and Practical Skills -Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.