

ART 158B2 : METAL ARTS: INTERMEDIATE CASTING

Transcript title

Metal Arts: Intern Casting

Credits

4

Grading mode

Standard letter grades

Total contact hours

50

Lecture hours

30

Other hours

20

Prerequisites

ART 158B1.

Course Description

Builds on the skills learned in ART 158B1. Includes centrifugal, vacuum, cuttlebone, and sand casting. Explores the use of molds to duplicate textures to transfer onto wax, creating stone settings in wax, and controlling the wax burn-out. Repeatable for credit.

Course learning outcomes

1. Apply intermediate-level skills, including using additive and subtractive methods, to create wax models for the casting process.
2. Demonstrate skills necessary to sprue, invest, and cast complex wax models into metal.
3. Achieve a high level of craftsmanship and attention to detail in finished work.
4. Integrate design elements, unifying principles of design, and compositional strength.
5. Engage in safe studio practices related to the casting process.
6. Use media-specific terminology to receive and provide feedback.

Content outline

1. Principles of design appropriate for casting
2. Materials, carving tools, wax types and properties
3. Studio safety
4. Intermediate wax carving and building techniques
5. Spruing basic and complex models
6. Investing process, vacuum degassing, mold burnout, centrifugal casting
7. Alternative casting methods such as water casting, broom casting, and cuttlebone casting
8. Making molds of cast models for production
9. Clean up and finishing of complex castings

10. [Constructive critiques: receiving and giving feedback between instructor and classmates](#)

Required materials

Students will need to provide specific materials used in this course; please see the syllabus for a detailed list.