

Honolulu Museum of Art School

Supply List

Lost Wax Casting

Instructor: Jim Friedman

Over View

In this introduction to wax carving and the lost wax casting process, students learn to use carving tools, sprue and tree strategies, the investment process, casting techniques, and finishing.

Class Schedule

Week 1: May 19, 2014

- Introductions / Hand Out (discuss the three basic design projects ring, pendant, link)
- Overview of tools and techniques (TOOL SETS) Safety,
- Discussion and Demonstration & Activity: basic ring design (dome, flat, grooved...) free hand, as apposed to measured/examples

Week 2: May 26, 2014

- Discussion: Jewelry casting technology; centrifugal and vacuum
- Visual Presentation: factories, studios, technology, process, materials
- Studio time: focus on ring design "measured".

Week 3: June 2, 2014

- Discussion: Wax carving and injection waxes
- Metal temperatures melt/flow/cast , Demo Cast
- Finish Ring, introduction to 2d pendant design demonstration

Week 4: June 9, 2014

- Discussion: Spruing, metal flow, design, Shrinkage porosity
- Investment process /specific gravity hand out, discussion
- Pendant design continuation / studio time

Week 5: June 16, 2014

- Discussion and Demonstrations: Alloys, metals, and characteristics
- Continuation of pendant Wax design development.
- Casting demonstration /Studio time

Honolulu Museum of Art School

Supply List

Week 6: June 23, 2014

- Necklace link design collaboration for casting. Discuss the production advantage.
- Spruing/ treeing/ investing

Week 7: June 30, 2014

- Casting
- Discussion and Demonstrations: finishing processes pre finishing, polishing, sand blasting, masking.. (buffs, compounds, brushes, pre polish/final polish, hammered finish)
- Studio time

Week 8: July 7 , 2014

- Continuation of finishing/polishing demonstrations
- Mass media finishing discussion /Demo
- Bench work, finish and polishing designs

Week 9: July 14, 2014

- specific gravities, Cost calculations
- Start self guided project

Week 10: July 21, 2014

- Continue self guided project
- Flex Session, (possible invest / cast)
- Studio Time

Week 12: July 28, 2014

- Flex Session, (possible invest / cast)
- Studio Time

Week 13: August 4, 2014

- Flex Session, (possible invest / cast)
- Studio Time

Week 14: August 11, 2013

- Flex Session
- Studio Time

Course Materials

The Lab will provide basic tool sets to be checked in and out during each class session. If your interested in purchasing tools, supplies and materials please see resources below.

Honolulu Museum of Art School

Supply List

Resources

Tools and supplies : Stuller Company www.stuller.com, Rio Grande www.riogrande.com
Local Schwartz company 1149 Bethel St. suite 400 (808.539.1410) 14kt. Club Waikiki
Trade Center (808.924.1014)

Book recommendation :

- Tsuyuki, Hiroshi. *Basic Wax Modeling*

Final Note

This Syllabus is a work in process. Details will be added and subtracted as we go.

Your learning is my principal concern, so I may modify the syllabus if it will facilitate your learning. For example, we may discover that we want to spend more time on certain topics and less on others. After consultation with participants, I will consider changing the schedule if such changes would benefit most participants' learning in this course. If you have any special comments or requests please feel free to contact me via email at jbdesignss@gmail.com.

Lost Wax Policy

The objective of this class is to introduce students to the art of wax carving and lost-wax casting. It is an introductory course and not intended for advanced techniques and processes. Students learn to use basic tools; techniques and materials to design and create individually produced items. Students will first learn to create basic ring and pendant designs and then use these techniques to create original works of jewelry art. The instructor will provide guidance with design technique and project planning but is not responsible for completion of student work.

Students will be allowed to cast items created during class hours only. Students who have their own tools will be allowed to finish items at home or outside class hours but no items that are not at least started during the regular class hours will be cast unless approved by the instructor.

The mold making process will be demonstrated. Students are allowed to make one mold of any one item created during the class, if there is time. Molds will not be made for items made outside of class or copies of designs not made by the student. Instruction includes wax injection; students are allowed to reproduce, in limited numbers, designs they create in class. Molds produced outside of the class will not be injected