INSTRUCTOR: Bill Jamieson  TEXTBOOKS: Tim McCreight, The Complete Metalsmith, and/or					
Week Date Activity 1 1-19 Continuing Students: Continue to work on wax models. and New Students Only: Discussion of tools, materials, outline of course, and design sources. (Possibly a slide presentation) 2 1-28 New Students: Jewelry Slides. Wax demonstrations.(basic wax					
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techniques, beads, belt buckles, pendants, small sculpture. etc.)					
3 2-02 <u>New Students:</u> Tool check, continue demonstrations, (rings, stones,					
mountings)					
Advanced Students: Work on wax models or watch demo.					
4 2-09 All Students: Work on wax models. Spruing and Investing demo.					
2-16 Lab 1st investing for those who have completed a <b>quality</b> wax model.					
6 2-23 Lab* 1st Casting					
7 3-02 Lab* 8 3-09 Lab* Be ready with your metal.					
8 3-09 Lab* Be ready with your metal. 3-14 - 3-20 SPRING BREAK					
9 3-23 Lab*					
10 3-30 Lab*					
11 4-06 Lab* Advanced students may NOT invest after April 9. (Unless)?					
12 4-12 Lab*					
13 4-20 Lab Last class period to invest for beginning students					
14 4-27 Lab Final casting					
15 5-04 Lab Finishing of projects for final critique.					
5-11 <u>Final Critique 6:30 - 8:00 pm Display projects. (workroom closed).</u>					
(Snacks,)					

Evaluation will be on aesthetic quality, creativity, and craftsmanship of your work.

\*Investing and casting can be done on each of these weeks...

- \*\* BUT ONLY ONE FLASK PER STUDENT PER CLASS PERIOD.
- \*\* (Exceptions may be made if class size is small.)

# **DO NOT START TO INVEST AFTER 9:00 PM!**

## THE MAXIMUM WEIGHT OF A WAX MODEL TO BE INVESTED IS 16 GRAMS.

If items are small, several should be invested together in the same flask.

Please use the **smallest** flask that will fit your wax model.

Large items (belt buckles, etc.) should be one per flask.

If you invest, you must cast the following class period.

Do not wait until the end of the semester to cast !!???!!##!!\*\*!! or maybe you won't.

# <u>YOU WILL NOT BE ALLOWED TO INVEST AND CAST ANY COMMERCIAL</u> <u>FORMS</u>

## LOST WAX JEWELRY - COURSE OUTLINE

#### **COURSE CONTENT**

LOST WAX JEWELRY-Introduction

LOST WAX DESIGN-Jewelry/Small Sculpture

DESIGN CONSIDERATIONS-Elements (line, shape/form, texture, color and value)

• Aesthetics • Function

**WAX METHODS** 

• Additive (Build-up) • Subtractive (Carving)

CASTING METHODS

•Centrifugal •Vacuum-assist •Pour

PROCEDURES FOR LOST WAX CASTING

Build design in wax.

Sprue design

Invest wax model

Burnout wax

Cast flask

Clean cast piece

Finishing-sawing, filing, grinding, sanding

**Buffing-tripoly** 

Oxidizing

Buffing-rouge

Stone setting

Presentation of completed work

#### SELECTED BIBLIOGRAPHY

Sharr Choate, Creative Casting, New York: Crown Publishing.

Dominic Dipasquale, Jewelry Making, Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1975.

Chuck Evans, Jewelry - Contemporary Design and Technique, Worcester, MA: Davis Publishing, 1983

Jay D. Kain, Cast Pewter Jewelry, Worcester, MA: Davis Publishing.

Philip Morten, Contemporary Jewelry, New York: Holt, Rinehart, and Winston.

Oppi Untracht, Metal Techniques for Craftsmen, New York: Doubleday.

Robert VonNeuman, The Design and Creation of Jewelry, New York: Chilton Co. Bob Winston, Cast Away, Scottsdale: Shelfhouse Publications.

EVALUATION

- 1. Grades from projects.
- 2. Attendance.
- Creativity in design.
- 4. Technical competency.
- 5. Attitude.
- 6. Professionalism.

#### **CLASS BREAKS**

Limit yourself to 20 minutes for break time during the four hours class time.

# **ATTENDANCE**

Attendance will be taken for each class period.

Please notify the secretary 285-7277 (pm only) if not attending.

#### HOUSEKEEPING

# Please clean up after yourself. Allow sufficient time for this. Chairs under the table

## CASTING --- No Commercial Forms or Models

Several pieces should be cast at one time. Good design and craftsmanship is of great importance. One bronze casting during the semester. Silver, gold or pewter may be used for the other castings.

#### LOST WAX SUPPLIES

Tool Box (for carrying supplies)	Wax tool (A-CW 2 @Lonnie's)	Alcohol Lamp-1/2 pint, 1/4'	
wick		• •	
Matches or lighter	(1401 C @ Langert-Netzband	Ceramic or Pyrex dish	
*Waxes:	Q-tips	*Wick for alcohol Lamp	
Sheet-soft pink or green	* #4 Jewelers Saw Blades	Aluminum foil	
Sprue or Wire wax	Toothbrush	Leather gloves	
(optional)			
Kerr hard inlay-bar or stick	Sandpaper (assorted)	*MIZZY grinding wheels	
Sierra Red	Ring stick (optional)	*Mandrels for grinding	
wheels	•		
Pliers	Dremel or Foredom Bits	Small knife or X-acto knife	
*May be purchased in class	Band aids	*Methanol (alcohol for lamp)	

#### **EXPENDABLE SUPPLIES**

The following items for this class will be supplied: Acetylene-Oxygen, buffing wheels, filters, tripoly, rouge, oxidizers, Sparex #2, vacufilm, charcoal blocks, silver solder, soldering flux, casting flux, and investment.

#### **WAXES**

SHEET WAX is used as a base for pins, earrings, belt buckles, pendants, bolo ties, bracelets, buttons, etc., or in large areas where shaping is needed.

WIRE WAX is used for basic construction and sprues. It's color has no significance.

PECKS PURPLE STICKS OR BARS are used for building all the sculpture forms, rings, texturing, edging, setting for stones, and main sprues. It is also used for strengthening other waxes.

SIERRA RED WAX is used for all aspects of wax forming. It is especially useful in making prongs for stones.

WAX FORMS SHOULD BE AS NEAR THE SAME THICKNESS AS POSSIBLE.

#### LAMP AND ALCOHOL

Alcohol lamps with <u>methanol</u> alcohol produce very little carbon. Other alcohol (denatured) burns with a yellow flame and produces a great deal of carbon. Carbon in wax is a source of porosity and is more difficult to eliminate in the burnout. It can also cause roughness on the surface of the cast piece.

#### LOST WAX SUPPLIERS

COMPANY	PHONE #	SUPPLIES
CC Silver 2028 W. Camelback	242-6310	Silver and gold
C & D Silver Mfg. Co. 15846 N. Cave Creek Rd.	992-5440	Silver, tools, lapidary supplies, etc.
Fine Art Tools & Equipment CASTING	946-5858	Waxes, tools, pewter, silicon bronze,
2926 N. Civic Center Plaza Scottsdale		Rubber Molds

J & J Casting lapidary 2621 W. Nor	995-4948	CASTING and casting equipment. tools, supplies. stones, gems,		
waxes, books.	ulem	supplies, stolles, genis,		
· · · · · · · · · · · · · · · · · · ·	264.4.620	m 1 D		
Langert Netzband Jewelry Sup	264-1 620	Tools, Pewter, silver wire, wax, bronze		
1526 W. Camelback Rd.				
Lonnie's Inc.		Tools, gems, waxes, metals, <u>books</u> ,		
7153 E. Apache Trail, Mesa	832-2641	acetylene, oxygen, methanol, denatured		
alcohol				
1436 N. 44th St.	220-0494			
Rockazona, Inc.	979-7400	Silver, bronze, stones, gold, waxes, tools,		
lapidary		C		
9241 Grand Ave., Peoria		equipment, methanol, etc.		
Shop of Art	967-3681	Pewter. silver, tools, bronze, wax, copper		
26 E. University, Tempe		11		
PLEASE CHECK YELLOW PAGES FOR MORE SOURCES				

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