

I. COURSE DESCRIPTION

- A. Division: Humanities
Department: Art
Course ID: ART 240x4
Course Title: Glassblowing
Units: 3
Lecture: 2 Hours
Laboratory: 3 Hours
Prerequisites: None
- B. Catalog Description:
A progressive study of glass working techniques, including designing and producing vessel and sculptural forms in hot glass. Emphasis is on exploration of color, hot applications, team work, repeatable forms, sandblasting, cold working/fabrications, and non-conventional methods. This course may be taken four times.
- C. Schedule Description:
A progressive study of glass working techniques, including designing and producing vessel and sculptural forms in hot glass. Emphasis is on exploration of color, repeatable forms, sandblasting, and non-conventional methods

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: Four

III. EXPECTED OUTCOMES FOR STUDENTS:

- A. Create increasingly more difficult objects of glass art
B. Identify and explain the various composition methods used in the production of glass objects
C. Demonstrate the various methods of forming and constructing glass objects
D. Evaluate and explain the artistic elements of glass objects
E. Research, interpret, and develop their own artistic forms
F. Synthesize their technical knowledge to produce a range of glass objects

Upon completion of the first semester, students should be able to:

- A. Create the following glass objects:
1. Paperweight
 2. Cylinder
 3. Bottle
 4. Bowl
 5. Hot attachment on any of the above (e.g., handle, cookie, decoration) applied hot (feathering, threading, etc.)

Upon completion of the second semester, students should be able to:

- A. Create the following glass objects:
1. Three candle holders, each with cup, stem, and foot
 2. Two picked up (encased in) cane vessels
 3. Three Rondells (to fit stacker): one clear, two with color

Upon completion of the third semester, students should be able to:

- A. Create the following glass objects:
1. One set of four goblets with cups, stems, and feet
 2. Four mugs with handles
 3. Two cane bowls with lip wrap and foot or cookie
- B. Conduct a demonstration of a particular method of glassblowing for the class.

Upon completion of the fourth semester, students should be able to:

- A. Present to the class a lecture/demonstration of a technique chosen from the following
 - 1. Encalmo
 - 2. Graal
 - 3. Filigrana
 - 4. Zanfrico
 - 5. Murinni (production & application)
 - 6. Latticino
 - 7. Peticello
- B. Produce two collaboration pieces with a glass design student using decorative elements from kiln-fired pieces included in blow pieces
- C. Create a sketchbook / journal / resource list

IV. CONTENT:

- A. Studio/tool proficiency
 - 1. Glory hole adjustment
 - 2. Blow pipe and gathering iron preparation
 - 3. Manipulation of jacks/blocks
 - 4. Gathering glass
 - 5. Stages of cooling glass
 - 6. Knock off
 - 7. Annealing oven basics
 - 8. Safety concerns
- B. Basic vessels
 - 1. Blowpipe use
 - 2. Transfer from pipe to puntie
 - 3. Trim-and-finish rim
 - 4. Making bottles from cylinders
 - 5. Making bowls
- C. Hot additions
 - 1. Handles
 - 2. Foot (cookie)
 - 3. Lip wrap
 - 4. Threads
 - 5. Decorative wraps and twists
- D. Repeatable forms
 - 1. Separate forms joined by grinding/polishing
 - 2. Refine blowing technique so forms are similar
 - 3. Use of lapping wheel
 - 4. Wet belt sander
 - 5. Polisher
- E. Color applications
 - 1. Color bar breaker use
 - 2. Bit warmer use
 - 3. Stretching cane and threat
 - 4. Pickup and milifiori form bit warmer
 - 5. Casing with color
 - 6. Veiling
 - 7. Using frit
 - 8. Powder
 - 9. Fuming
- F. Tool making
 - 1. Selection of proper wood for tools
 - 2. Carving blocks
 - 3. Metal basics with relation to glass tools

V. METHODS OF INSTRUCTION:

- A. Lecture
- B. Class and group discussion
- C. Demonstration of glassblowing techniques
- D. Field trips
- E. Critical evaluation of photographs, slides, and articles
- F. Written assignments
- G. Class presentations

VI. TYPICAL ASSIGNMENTS:

- A. Class Discussion: In your group, discuss the Island of Murano. Be prepared to share your responses with the class.
- B. Sketchbook: design objects that relate to the requirements to be executed at the furnace.
- C. Field Trip: Select one of the glass objects from among those observed at the museum we visited. Prepare a three-page paper that describes the object's style, form, composition, proportion, and scale. Describe what prompted you to select this object.

VII. EVALUATION:

- A. Methods of Evaluation
 - 1. Objective and subjective examinations (for lecture and text assignments). Typical questions include:
 - a) Of the following, which best describes the work of classic Italian methods
 - i) teamwork
 - ii) casting
 - iii) graal
 - b. Compare and contrast lampworking and furnace work
 - 2. Subjective evaluation of student sketchbook/journal to be graded on
 - i) volume of ideas and research
 - ii) ability to successfully apply this information into the creation of required pieces
 - iii) ability to organize material
 - iv) ability to cite sources
 - v) ability to write clearly
 - 3. Subjective evaluation of student's ability to successfully produce required projects glass requirements
- B. Frequency of Evaluation
 - 1. Mid-term critique
 - 2. Final critique – sketchbook due

Upon completion of first semester, students should be evaluated based on their ability to:

- A. Use tools, equipment, and hand-eye coordination to successfully create
 - 1. Paperweight
 - 2. Cylinder
 - 3. Bottle
 - 4. Bowl
 - 5. Attachment
 - a) handle
 - b) cookie
 - c) decoration applied hot
 - i. feathering
 - ii. threading

Upon completion of second semester, students should be evaluated based on their ability to:

- A. Use first semester knowledge to expand their expertise to successfully create
 - 1. sectional (hot assembled) pieces
 - a) candle holders (with cup, stem and foot)
 - b) goblets (with cup stem and foot)
 - 2. Cane, applied by pick-up to vessel
 - 3. Stackable Rondells – one clear, two with color

Upon completion of third semester, students should be evaluated based on their ability to:

- A. Use first and second semester skills to successfully create
 - 1. One set of four goblets with cups, stems, and feet
 - 2. Four mugs with handles
 - 3. Two cane bowls with lip wrap and foot or cookie
- B. Conduct a demonstration of a particular method of glassblowing for the class

Upon completion of fourth semester, students should be evaluated based on their ability to:

- A. Successfully present to the class a lecture/demonstration of a technique chosen from the following
 - 1. Encalmo
 - 2. Graal
 - 3. Filigrana
 - 4. Zanfrico
 - 5. Murinni (production & application)
 - 6. Latticino
 - 7. Peticello
- B. Produce two collaboration pieces with a glass design student using decorative elements from kiln-fired pieces included in blow pieces

VIII. TYPICAL TEXT(S):

Dunham, Bandhu. Contemporary Lampworking, 3rd ed, Salusa Glassworks, 2002
Schmid, Ed. Advanced Glassworking Techniques, Glass Mt. Press. 2002

IX. OTHER SUPPLIES REQUIRED OF STUDENTS: Students are required to pay a \$25 lab cost for materials used to create assignments.