

Lassen Community College Course Outline

GSS-123 Basic Hard Metal Engraving

2.0 Units

I. Catalog Description

An introductory course designed to provide the students with the basic skills of firearms engraving. Instruction includes tools and equipment and their use, pattern design, design transfer, cutting, stippling and other basic engraving skills and techniques. This course requires an additional fee of \$19 to cover the costs of course handouts and practice plates.

Does Not Transfer to UC/CSU
8 Hours Lecture, 92 Hours Lab
Scheduled:

II. Coding Information

Repeatability: Take 1 Time
Grading Option: Pass/No Pass Only
Credit Type: Credit - Not Degree Applicable
TOP Code: 100900

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course the student will be able to:
Apply the basic skills for pattern design, design transfer, cutting, stippling and other engraving techniques.

B. Course Objectives

Upon completion of this course the student will be able to:

1. Identify engraving tools and their usage.
2. Demonstrate fabrication and graver sharpening.
3. Describe the selection and transferring of patterns.

IV. Course Content

- A. Safety in the shop
 1. Shop equipment
 2. Hand tools
- B. Tools and equipment
 1. Engraver's vise
 2. Gravers
 3. Chaser hammer
 4. Eye loupe or magnifier
 5. Lighting
 6. Sharpening hone
 7. Miscellaneous supplies
 8. Graver handles
- C. Patterns and design
 1. Lines, circles, and squares
 2. Scroll-American, English, German
 3. Floral

4. Trees and foliage
 5. Birds and animals
 6. Border patterns
 7. Oak leaves
- D. Pattern and design application (using practice metal plates)
1. Free hand drawing
 2. Tracing
 3. Pattern transfer
 4. Style selection
- E. Cutting (beginning basics)
1. Straight lines, squares
 2. Curved lines, circles
 3. Basic scroll
 4. Border patterns
 5. Relief scroll, animals and leaves
 6. Use of liner, shading
- F. Cutting (Final project)
1. Layout and design
Animal, bird, or game scene
 2. Engrave
 3. Shading
 4. Final finish
 5. Make into belt buckle
- G. General information
1. Supply sources
 2. Finishes for engraved projects

V. Assignments

A. Appropriate Readings

Students will be assigned readings from various instructor handouts and trade journals.

B. Writing Assignments

Students will be required to keep a journal of notes.

C. Expected Outside Assignments

See 'A' and 'B' above.

D. Specific Assignments that Demonstrate Critical Thinking

Students will demonstrate critical thinking by selecting engraving patterns suitable for a customer.

VI. Methods of Evaluation

The student will be evaluated by class participation and completion of class assignments.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery

Online Delivery

Lecture, Laboratory, Demonstration

VIII. Representative Texts and Supplies

Instructor Handouts, Trade Journals

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active

Original Approval Date: 6/1/1990

Revised By: John Martin

Curriculum/Academic Standards Committee Revision Date: 05/21/2013

Instructional Program Review Date with no Revision: 03/25/2014