

Lassen Community College Course Outline

GSS-127 Advanced Engraving

2.0 Units

I. Catalog Description

An advanced course designed to cover advanced metal engraving techniques applicable to major portions of the firearm. The scope of instruction includes advanced design and layout, high relief engraving, compatible background style, straight line or border inlays, and inlayed game scenes.

Does Not Transfer to UC/CSU

8 Hours Lecture, 16 Hours Outside of Class, 92 Hours Lab, 116 Total Hours of Instruction

Scheduled:

II. Coding Information

Repeatability: Not Repeatable, Take 1 Time

Grading Option: Pass/No Pass

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 advanced skills for pattern design, design transfer, high relief engraving, compatible background style and other engraving techniques.

B. Course Objectives

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

1. Demonstrate the knowledge and manual skills to design, transfer and layout an engraving pattern.
2. Demonstrate the metal cutting skills to place an engraving pattern and precious metal inlay into a hard metal medium.

IV. Course Content

A. Safety in the Shop

1. Shop equipment
2. Hand tools

B. Layout and Design

1. Application
2. Pattern transfer
3. Scroll-English, American, Germanic
4. Figures- human, animal, birds
5. Trees, leaves, and foliage
6. Borders

C. Preparation of Metal Surfaces

1. Dissassembly
2. Annealing
3. Polish

- D. Engraving
 1. Standard depth- Advanced
 2. High relief- Advanced
 3. Scenes and figures
 4. Lettering
 5. Borders- Advanced
 6. Background
 7. Highlighting and shading
- E. Inlays
 1. Gold/Silver line borders
 2. Gold/Silver line and floreal borders
 3. Gold/Silver sheet inlays
 4. Gold/Silver wire inlays
- F. Refinish of Firearm Parts
 1. Reblueing
 2. Plating
 3. French gray
 4. Coin Finish
 5. Color case

V. Assignments

A. Appropriate Readings

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

B. Writing Assignments

The student 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 be required to demonstrate an understanding of engraving concepts and practices by applying the technical information to a required number of related projects.

VI. Methods of Evaluation

Student grades will be determined by:

- A. Performance on writing assignments
- B. Performance on written and oral quizzes and exams
- C. Ability demonstrated by student's tranfer of knowledge gained to a new application.

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

VIII. Representative Texts and Supplies

"The Art of Engraving", by James B. Meeks

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active

Original Approval Date: 5/3/1990

Revised By: John Martin

Curriculum/Academic Standards Committee Revision Date: 11/15/2022