

Lassen Community College Course Outline

GSS-83 General Gunsmithing - Advanced

1.0 Unit

I. Catalog Description

An advanced course in general gunsmithing problems and techniques including drilling and tapping for sights, spring making and silver soldering.

Recommended Preparation: Successful completion of ENGL105 or equivalent multiple measures placement.

Does Not Transfer to UC/CSU

4 Hours Lecture, 8 Outside of Class Hours, 46 Hours Lab, 58 Total Hours of Instruction Scheduled:

II. Coding Information

Repeatability: Take 1 Time

Grading Option: Pass/No Pass Only

Credit Type: Credit - Degree Applicable

TOP Code: 099900

III. Course Objectives

A. Course Student Learning Outcomes

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

Properly use common gunsmithing tools and fixtures to complete unusual projects encountered.

B. Course Objectives

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

1. Identify advanced gunsmithing tools.
2. Describe and select open and optical sights.
3. Drill, tap and install open and optical sights.

IV. Course Content

A. Safety in the shop

1. Power tools
2. Bench tools

B. Benchtools in the gunsmithing shop

1. Disassembly-assembly tools
2. Cutting tools, scrapers
3. Stoning and lapping tools

C. Drilling and tapping for sights

1. Use of drill press
2. Use of forester fixture
3. Drilling and tapping for scope mounts
4. Drilling and tapping for iron sights

D. Spring making

1. Fitting the rough spring
2. Flat springs, coil springs, torsion springs

3. Tempering the spring and testing
- E. Silver Soldering
 1. Types of solder and flux
 2. Repair of parts using silver solder
 3. Installation of sights using silver solder
 4. Normalizing after silver soldering
- F. Bedding bolt action rifles for accuracy
 1. Theory and principles
 2. Types of bedding compounds
 3. Bedding points in stock
 4. Free floating vs. pressure bedding

V. Assignments

A. Appropriate Readings

The students will be assigned readings from instructor handouts.

B. Writing Assignments

The 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 designing and fabricating tools to perform specific tasks relating to firearms repair.

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: 2/15/1988

Revised By: John Martin

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