

Lassen Community College Course Outline

GSS-119 Advanced Rifle Barreling

1.0 Unit

I. Catalog Description

Providing the student with specific techniques in the manufacture of rifle barrels, in barreling rifles for precision accuracy, and barreling of less common action types. This course requires an additional fee of \$19 to cover the costs of sandpaper (course, medium, fine, very fine, grits), emery cloth (course, medium, fine and very fine grits), sanding belts, polishing wheels and polishing compound, welding rod (STAW), cutting oil, bluing salts, cleaning chemicals, degreaser.

Does Not Transfer to UC/CSU

4 Hours Lecture, 8 Hours Outside of Class, 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 - Not Degree Applicable

TOP Code: 099900

III. Course Objectives

A. Course Student Learning Outcomes

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

Barrel some of the less common action types.

B. Course Objectives

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

1. Demonstrate proper lathe setup.
2. True interior of action and threads.
3. True action face.

IV. Course Content

A. Safety in the shop on major machinery

1. Lathes
2. Milling machines
3. Grinders
4. Drill press
5. Metal cutting saws

B. Bench rest barreling techniques

1. Truing the action
2. Truing the bolt to the action
3. Lathe set up for precision threading
4. Lathe set up for precision chambering
5. Setting headspace to minimum dimension
6. Turning and crowning barrel

C. Barreling less common action types

1. Single shots

2. Double rifles
 3. Lever actions
 4. Semi-autos
- D. Boring and rifling barrels
1. Boring barrel
 2. Rifling types
 3. Air gauging barrels

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 tooling to assist in machine operations.

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: 6/25/1990

Revised By: John Martin

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