

Lassen Community College Course Outline

GSS-91 Customizing the Colt-Type Autopistol, Advanced

2.0 Units

I. Catalog Description

A course designed to cover the common advanced alterations and modifications to the colt 1911A1 type autopistols as used in custom pistolsmithing today. This course requires an additional fee of \$19 to cover the costs of course handouts, blocking, sandpaper, small parts (pins, roll pins, small springs, etc.), steel, cutting oil, welding rod and gases.

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

Does Not Transfer to UC/CSU

8 Hours Lecture, 16 Hours Outside of Class, 88 Hours Lab, 112 Total Hours of Instruction

Scheduled:

II. Coding Information

Repeatability: Take 1 Time

Grading Option: Graded or Pass/No Pass

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 perform advance custom alterations and modification to the colt 1911 type auto pistol as used in pistolsmithing today.

B. Course Objectives

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

1. Describe and demonstrate the machining of front and rear cocking serrations on slide.
2. Demonstrate the ability to employ final surface finish on slide at a professional level.
3. Demonstrate mainspring housing and grip alteration to achieve custom round butt style.
4. Demonstrate the ability to ensconce the mainspring housing retaining pin.

IV. Course Content

A. Selecting accessories

1. What works and what doesn't
2. What accessories to recommend for different matches

B. High Cutting Front Strap

1. Cut by Hand
2. Using radiused endmill
3. Blending

C. Intro to Checkering

1. Chasing mainspring housing
2. Rolling checkering on to frame around mainspring housing
3. Serrating rear of slide
- D. Checkering front strap
 1. Layout
 2. Starting cuts
 3. Taking care of overruns
 4. Stippling
- E. Fitting Ed Brown mag well
 1. Cutting frame
 2. Fitting mag well
 3. Silver brazing on
 4. Welding on
 5. thinning and inletting grips
- F. Fitting low mount sights
 1. Sight selection
 - a. Fixed
 - b. Adjustable
 - c. Front sights
 2. Measuring for fit
 3. Machine operations to mount
 4. Low mounting on a series 80
- G. Slide Alterations
 1. Front cocking serration
 2. Angles
 3. Grooves vs lines
 4. Flat topping slides
 5. Serrating flat tops
- H. Recoil reducing devices
 1. External Compensators
 2. Magna porting
 3. Hybrid

V. Assignments

A. Appropriate Readings

Assigned readings from the text.

B. Writing Assignments

Research paper on the different types of competition shooting using 1911 type pistols, with emphasis on the specific type of pistol and modifications for each game.

C. Expected Outside Assignments

Students will complete research activity outside of the classroom. Out of class assignments will include related readings.

D. Specific Assignments that Demonstrate Critical Thinking

Demonstrate an understanding of the use of the installation of the Bomar low mount sight system with the appropriate computations of the measurements needed.
Demonstrate the checking of the front strap of a 1911A1 style pistol.

VI. Methods of Evaluation

Student grades will be determined by:

1. Performance on written assignments
2. Performance on written and oral quizzes, exams, midterm and final
3. Demonstrate ability to transfer 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

Lecture, oral quizzes, discussion, hands on demonstrations in lab/lecture and lab projects that encourage students to use information covered in lecture as well as reading from texts.

VIII. Representative Texts and Supplies

'The Colt .45 Automatic-A Shop Manual' by Jerry Kuhnhausen

'Pistolsmithing' by Jack Mitchell

'The U.S. M1911/M1911A1 Pistols-A Show Manual' by Jerry Kuhnhausen

IX. Discipline/s Assignment

Gunsmithing

X. Course Status

Current Status: Active

Original Approval Date: 6/19/1991

Revised By: John Martin

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