

# Lassen Community College Course Outline

## GSS-94 Ballistic, Handloading & Testing

1.0 Unit

### I. Catalog Description

A course designed to provide the student with detailed knowledge of small arms ammunition. This course requires an additional fee of \$19 to cover the costs of course handouts, case lube, powder, primers, and bullets.

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

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 - Degree Applicable

TOP Code: 099900

### III. Course Objectives

#### A. Course Student Learning Outcomes

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

Safely reload a straight wall metallic cartridge to a specification equivalent to a factory loading for the same cartridge (velocity and accuracy).

#### B. Course Objectives

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

1. Explain the use of a reloading manual and describe cartridge components.
2. Demonstrate proper setup of reloading equipment.
3. Reload pistol cartridges to S.A.M.M.I. specifications.

### IV. Course Content

#### A. Safety in the shop

1. Tools and equipment
2. Components

#### B. History and development

1. Gunpowder
2. Firearms
3. The cartridge

#### C. Ballistics

1. Internal
2. External
3. Terminal
4. Pressure
5. Measuring

#### D. Reloading

1. Economics and accuracy
  2. Tools
  3. Procedures
  4. Casting bullets
- E. Firing and testing
1. Recording
  2. Firing
  3. Chronographing

## **V. Assignments**

### **A. Appropriate Readings**

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

### **B. Writing Assignments**

Students are 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 using knowledge gained to predict reactions of changed imprints on subject matter within safety parameters.

## **VI. Methods of Evaluation**

Grades will be determined by class participation and quality and speed of work.

## **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, and Lab Demonstration.

## **VIII. Representative Texts and Supplies**

Instructor handouts, various 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: 11/15/2022