

# Lassen Community College Course Outline

## GSS-112B Introduction to Knifemaking

1.0 Unit

### I. Catalog Description

A course of instruction in the design, fabrication, and finishing of common sheath knives and accessories.

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: 100900

### III. Course Objectives

#### A. Course Student Learning Outcomes

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

Design and construct a simple sheath knife using the proper tools and techniques.

#### B. Course Objectives

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

1. Describe selection of steel as it pertains to knife making.
2. Demonstrate layout of knife blade on steel.
3. Rough shape blade by hand.
4. Demonstrate proper heat treating methods.
5. Fabricate and install handle and bolsters.

### IV. Course Content

#### A. Safety in the shop

1. Power tools
2. Bench tools

#### B. Tools

1. Hand tools
2. Power tools

#### C. Knife design

1. Review of common designs
2. Nomenclature
3. Steels
  - a. Carbon steels
  - b. Stainless steels
4. Heat treating
5. Soldering
  - a. soft soldering
  - b. silver soldering

#### D. Fabrication of the knife

1. Creating the blade
  2. Creating the handle
  3. Attaching handles
  4. Final fit and finish
- E. Sheathmaking
1. Design
  2. Leather selection
  3. Stitching

## **V. Assignments**

### **A. Appropriate Readings**

Instructor Handouts, Trade 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 fabrication of tools to assist and enhance productivity.

## **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, Demonstrations

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

Instructor Handouts, Trade Journals

## **IX. Discipline/s Assignment**

Gunsmithing

## **X. Course Status**

Current Status: Active

Original Approval Date: 5/1/1990

Revised By: John Martin

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

Instructional Program Review Date with no Revision: 03/25/2014