



TBSI 2636

Division: Career and Technical Education

Department: Traditional Building Skills Institute

Course: TBSI 2636

Title: Traditional Architectural Blacksmithing

Catalog Description:

This course is a hands on workshop for traditional building skills of architectural blacksmithing. The course includes the philosophy of historic ironwork and the reproduction of forged hardware such as hinges, latches, hooks, and various tools. The participants will learn the use of a coal forge and a gas forge, forging processes, tool heat treating and weld forging. (Cross-listed as BCCM 2636)

General Education Requirements: N/A

Semesters Offered: Spring

Credit/Time Requirement: Credit: 1.5; Lecture: 1; Lab: 1

Clock/Hour Requirements: 0

Offered for Non-Credit: No

Prerequisites: N/A

Corequisites: N/A

Justification:

This course is being provided in response to an increased interest in traditional blacksmithing. The skills learned in this course can introduce one to an avocation and/or vocation. This course is recommended by the Traditional Building Skills Institute Board of Trustees.

Student Learning Outcomes:

Upon successful completion of this course, students will:

- understand the philosophy and historic practices of ironwork and ornamental metal reproduction
- learn design, layout and the fabrication techniques of blacksmithing
- learn the skills of welding, forging, molding, and handling the materials for architectural blacksmithing
- become aware of the cultural, historical, and artistic aspects of architectural blacksmithing

Content:

This course will include:

- introduction: why traditional skills are valuable:
 - history and philosophy
 - blacksmith once a required necessity
 - modern application as an art
 - tools and materials
 - the use of forges
 - types and qualities of iron
 - forging processes
 - anvil, tongs and hammers
 - skills of ornamental metal fabrication
 - the reproduction of historic metal/ironwork
 - the designing of hardware and accessories
 - layout and fabrication techniques
 - iron forging skills
- the use of traditional ironwork and ornamental metal in new construction.

General Education Outcomes:

5) Apply a cultural and historical awareness to a variety of phenomena.

A lecture will introduce participants to the many cultural and historical aspects of blacksmithing. Participants will demonstrate their cultural and historical awareness by their performance on the quiz and on their projects.

9) Respond with informed sensitivity to an artistic work or experience.

As participants forge their various projects, they will demonstrate an appreciation of blacksmithing as an art form.

Key Performance Indicators:

- instructor's quiz: 30%
- assessment of acquired skills in architectural blacksmithing by instructor: 50%
- attendance and attitude:
 - 10 points per day will be given for attendance and showing up on time
 - 10 points per day will be given on attitude which includes willingness to participate and follow instructions: 20%

Percentages are approximate.

Representative Text and/or Supplies:

- Jack Andrews, *New Edge of the Anvil*, SkipJack Press.

Optimum Class Size: 10

Maximum Class Size:

TBSI 2636

Signatures:

I hereby submit this course syllabus:

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I hereby find this course consistent with the goals and resources of the Traditional Building Skills Institute Department:

Woodruff Challis, , , Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)