



BCCM 2636

Division: Career and Technical Education

Department: Building Construction and Construction Management

Course: BCCM 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. The course will be taught by blacksmith craftsman.

General Education Requirements: N/A

Semesters Offered: Spring

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

Clock/Hour Requirements: 0

Offered for Non-Credit: No

Prerequisites: N/A

Corequisites: N/A

Justification:

The course is being provided in response to an increase interest in traditional blacksmithing. The skills learned in this course can introduce one to an advocacy and/or vocation. The 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.

By lecture the participant will become aware of the many cultural and historical aspects of blacksmithing

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

An important goal of the course is to appreciate blacksmithing as an art form by forging various projects and seeing display samples.

Key Performance Indicators:

- a rating of scores from the 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%.

Representative Text and/or Supplies:

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

Optimum Class Size: 10

Maximum Class Size: 15

Signatures:

I hereby submit this course syllabus:

Officer Robert Wright, ,

I hereby find this course consistent with the goals and resources of the Building Construction and Construction Management Department:

Marlin Christensen, M. Ed., Instructor, 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)