



BCCM 2666

Division: Career and Technical Education

Department: Construction Technology

Course: BCCM 2666

Title: Traditional Stonework and Stone Carving

Catalog Description:

This course is a hands on workshop for the traditional building skills of Stonework Construction. The course includes the philosophy of historic preservation and traditional practices for repairing, repointing, cutting and carving stone.

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: Yes

Prerequisites: N/A

Corequisites: N/A

Justification:

The course is being provided in response to the construction industry trends for rehabilitating existing stone buildings and increasing interest in historic stone preservation. Sanpete County has a significant number of historic resources and settings which will be used to provide the laboratory for the course. The course will provide the participants with hands on experience in traditional stone work and stone carving skills. This is a required course for the AAS degree in Traditional Building Skills Institute and is recommended by the Board of Trustees.

Student Learning Outcomes:

The participants will:

- understand the philosophy of stone rehabilitation in historic structures.
- learn the proper use of various historic stone materials and demonstrate the techniques to repair, re-point, cut, and install stonework
- learn stone carving techniques.

Content:

In class:

BCCM 2666

- introduction: why traditional skills are valuable
 - practices
 - materials
- philosophy
 - preservation practice
 - modern application
- the use of tools and materials
 - traditional practice
 - current practice
 - stone cutting and splitting techniques
 - use of stone carving tools
- the qualities of various historic materials
 - mortars and mortar mixes
 - stones and quarry sites
- the repair and re pointing of historic stonework
 - pin and patching
- the use of traditional stonework in new construction
- the carving of stone.

General Education Outcomes:

Applied Education Outcomes:

1) Students will acquire entry-level skills specific to and appropriate for employment in their chosen field of study.

Students will learn basic skills for recreating, repairing and replacing stonework.

3) Students will demonstrate safe practices and awareness of potential hazards in their field of expertise.

Student will demonstrate safe practices and awareness of potential hazards as required for material and tool handling.

4) Students will demonstrate interpersonal skills specific to the skills and environment inherent in their field.

Students will demonstrate interpersonal skills specific to working on a stone structure.

Key Performance Indicators:

- A quiz: 30%
- Acquired skills in stonework carving: 50%
- Attendance and attitude: 20% -10 points per day will be give for attendance, showing up on time and willingness to participate, percentages are approximate
- assessment of course instructors by course participants.

Representative Text and/or Supplies:

- Wilson G. Martin, *Oolitic Limestone Conservation: A Case Study In Conservation And Maintenance*, Governor's Mansion, Salt Lake City, Utah.
Robert C. Mack, FAIA and John P Speweik, "Preservation Briefs #2," U.S. Department of the Interior.

Optimum Class Size: 10**Maximum Class Size:** 15

Signatures:

I hereby submit this course syllabus:

''

I hereby find this course consistent with the goals and resources of the Construction Technology 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)