



BCCM 2656

Division: Career and Technical Education

Department: Building Construction and Construction Management

Course: BCCM 2656

Title: Traditional Historic Masonry Preservation

Catalog Description:

This course is a hands on workshop for the traditional building skills of Historic Masonry Preservation. The course includes the philosophy of historic preservation and traditional practices for the repair, cleaning, coating, repointing, lime producing, mortar analysis on historic brick masonry.

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 construction industry trends for rehabilitating existing buildings and increased interest in historic preservation. Sanpete County has a significant number of historic masonry buildings which can be used to provide the laboratory for the courses. This course is required for the AAS degree in Traditional Building Skills as recommended by Traditional Building Skills Institute Board of Trustees.

Student Learning Outcomes:

Upon successful completion of this course, students will:

- understand the philosophy of historic masonry restoration
- learn the proper use of various historic masonry materials and demonstrate the techniques to repair, clean, repoint and install brick and stonework
- participate in constructing a kiln and producing historic lime putty.

Content:

This course will include:

- introduction: why traditional skills are valuable
 - history and philosophy
 - practices
 - materials
 - masonry mortars
 - preservation practice
 - modern application
 - the use of tools and materials and processes
 - traditional practice
 - current practice
 - paint stripping
 - patches and repairs
 - use of pneumatic chisels
 - trowels and repointing tools
 - diamond saws
 - the qualities of various historic materials
 - lime mortars and analysis
 - mortar mixes
 - custom mortar matching
 - brick
 - kiln and producing lime
 - the repair and cleaning, repointing and coating of historic masonry.

General Education Outcomes:

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

By slides and lecture the participants will appreciate the cultural and historical aspects of historical masonry.

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

By slides and lecture the participants will appreciate the artistry that can be formed in historic masonry and architecture.

Key Performance Indicators:

- a rating of scores from the instructor's quizz: 30%
- assessment of acquired skills in historic masonry restoration 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 willingnees to participate and follow instructions: 20%

Representative Text and/or Supplies:

- Robert C. Mack AIA, *The Cleaning and Waterproof Coating of Masonry Buildings*, U.S.Department of the Interior, Presevation Brief # 1.
- Robert C. Mack and John P. Speweik, *Repointing Mortar Joints in Historic Masonry Buildings*, U.S.Department of the Interior, Preservation Brief # 2.
- Anne E.Grimmer, *Dangers of Abrasive Cleaning to Historic Buildings*, U.S Department of the Interior, Preservation Brief # 6.

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)