



TBSI 2656

Division: Career and Technical Education

Department: Traditional Building Skills Institute

Course: TBSI 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 of historic brick masonry. (Cross-listed as BCCM 2656)

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 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 course. This course is required for the AAS degree in Traditional Building Skills.

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:

- 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.

Slides and a lecture will assist the participants in gaining an appreciation of the cultural and historical aspects of historic masonry. Participants will demonstrate their understanding of these cultural and historical aspects as they work on their preservation projects.

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

Participants will demonstrate through their projects an appreciation for the artistry that can be formed in historic masonry and architecture.

Key Performance Indicators:

- instructor's quiz: 30%
- assessment by instructor of acquired skills in historic masonry restoration: 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

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

Optimum Class Size: 10

Maximum Class Size: 15

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)