BCCM 2656

Division: Career and Technical Education
Department: Construction Technology
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, re-pointing, 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: Yes
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, re-point and install brick and stonework
- participate in constructing a kiln and producing historic lime puddy.

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 re-pointing 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, re-pointing and coating of historic masonry.

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 the basic skills for repairing masonry.

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 masonry.

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 willingness to participate and follow instructions: 20%, percentages are approximate.

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:

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

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Marlin Christensen, M. Ed., Instructor, Chair

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

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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:

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

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)