



## BCCM 2666

**Division:** Career and Technical Education

**Department:** Building Construction and Construction Management

**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:** No

**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, repoint, cut, and install stonework
- learn stone carving techniques.

**Content:**

- 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 repointing of historic stonework
  - Pin and patching
- The use of traditional stonework in new construction
- The carving of stone

### **General Education Outcomes:**

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

Stone work is an ancient skill and used in nearly every culture of the world. Students will demonstrate increased cultural and historical awareness as they participate in restoration work on a local historic stone structure.

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

Participants will demonstrate through their stone carving and working on a stone building an appreciation for the artistry that can be formed in stone and stone architecture.

### **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.
- assessment of course instructors by course participants.

(Percentage values are approximate.)

### **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:

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Officer Robert Wright, ,

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