



## TBSI 2606

**Division:** Career and Technical Education

**Department:** Traditional Building Skills Institute

**Course:** TBSI 2606

**Title:** Traditional Wood Window Fabrication and Restoration

**Catalog Description:**

This course is a hands-on workshop for the traditional building skill of wood window fabrication, repair, and restoration. The course content includes the philosophy and history of wood windows, and restoration and preservation techniques. Traditional practices in fabrication of a wood window are also taught. (Cross-listed as BCCM 2606)

**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:**

This course is being provided in response to construction industry trends for rehabilitating existing buildings, increased interest in historic preservation, and incorporating traditional construction practices in new building.

A significant number of historic homes have old wood windows which need to be replaced or restored.

The course will inform and educate the participants in traditional wood window skills.

This is a required course for the AAS degree in Traditional 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 and history of wood windows
- fabricate the stiles, rails, and muntins for a wood window using traditional methods
- learn proper repair and restoration techniques for historic wood windows.

**Content:**

This course will include:

- Introduction: Why Traditional Skills are Valuable:
  - History and Philosophy
    - Practices
    - Materials
- Restoration and Repair of Wood Windows:
  - Types and Styles of Windows
  - Traditional Practice
  - Current Practice
  - Removal, Refinishing, and Repainting
  - Hardware Problems
  - Glass Replacement and Reglazing
  - Use of epoxies
- The Fabrication of Wood Windows
  - Stiles and Rails, Muntins
  - Mortise and tenon Joint
  - Hardware
  - Weather stripping
- The Use of Wood Windows in New Construction.

### **General Education Outcomes:**

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

Windows can help date a house. The basic knowledge of how to keep a wood window in-good repair has been lost over the last generation. We study the types, styles and workings of wood windows between 1890-1940.

6) Apply computational skills to a variety of contexts.

Window fabrication requires layout, calculations, measuring and estimates.

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

Wood windows provide the old-world charm to a traditional house and should not be replaced with vinyl windows. The main architectural features of a house are its windows.

### **Key Performance Indicators:**

- A rating of scores from the instructor's quiz: 30%
- Assessment of acquired skills in window fabrication and 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:**

- Terence Meany, *Working Windows, A Guide to Repair and Restoration of Wood Windows*, The

Lyons Press.

- John H. Myers, *The Repair of Historic Wooden Windows*, U.S. Department of the Interior, Preservation Brief: 9.
- Kay D. Weeks and David Look AIA. *Exterior Paint Problems on Historic Wood*, U.S. Department of the Interior, Preservation Brief: 10.

**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 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)