BCCM 2756

Division: Career and Technical Education
Department: Building Construction and Construction Management
Course: BCCM 2756
Title: Traditional Millwork and Window Fabrication and Restoration
Catalog Description:

This course is a hands-on workshop for the traditional skills of millwork/ wood work and wood window fabrication, repair and restoration. The course includes the philosophy of historic preservation and traditional practices for the repair and replicating of historic moldings, millwork, and wood windows. This course covers many aspects of millwork such as replicating and producing moldings, coping and mitering base and crown moldings, using historic wooden molding planes, frabricating windows sash and muntins. The course covers the use of liquid wood and epoxies to restore and preserve decayed moldings and window parts.

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
Justification:

The 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 buildings.The course will inform and educate the participants in traditional millwork/ wood work and wood window skills.A significant number of historic buildings have old wood windows and moldings that need to be restored.This is a required course for the AAS degree in Traditional Building Skills and is recommended by TBSI Board of Trustees.

Student Learning Outcomes:

Upon successful completion of this course, the participants will: understand the philosophy and history of wood windows and millwork. fabricate the styles, rails, muntins for a wood window using traditional methods. learn various techniques replicating and restoring millwork.

Content:

This course will include:Introduction History and philosophy.Restoration and Repair of Wood Windows: -types and Styles of windows. -window layout. -window Fabrication. -removal, refinishing, and repairs. -glass replacement and reglazing. -use of epoxies. -hardware problems.Repairing, Restoring and Replicating of Historic Millwork: -use of table saw to produce moldings. -use of wood planes to produce moldings. -produing

a scraper for moldings replication. -moisture and moisture problems.

General Education Outcomes:

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

Window and millwork can help date a building. Using historical tools gives a historical awareness to participants.

6) Apply computational skills to a variety of contexts.

Window and millwork fabrication requires layout, calculations, measurements, and estimates.

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

Wood windows and milwork provide the old-world charmto a traditional building. The main design, art and architectural features of a building are its windows amd millwork.

Key Performance Indicators:

A rating of scores from the instructor's quiz: 30%.Assessment of acquired skills in window and millwork fabrication and restoration by instructor: 50 %.Attendance and attitude:10 pionts per day will be given for attendance and showing up on time: 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.Kay D Weeks and David W. Look, US Department of the Interiror, Preservation brief # 10, AIA

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)