

Clatsop Community College

BLD 103: Residential Materials and Methods

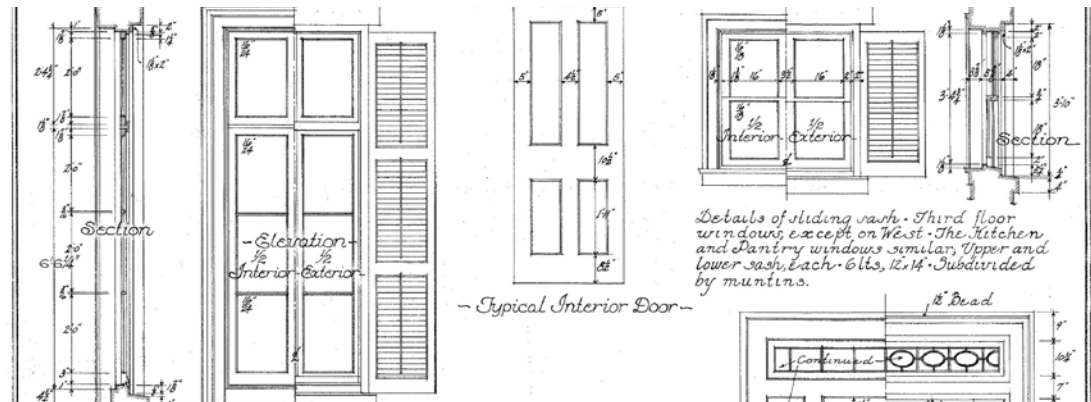
Winter 2014

3 Credit Hours

Instructors: Kirk Garrison and Lucien Swerdloff

Location: Columbia Hall 221

Time: Tuesdays 6:00-8:50



Course Description

Introduces function and performance characteristics of basic building materials, components, methods, and sequences in the construction process. Emphasizes residential construction.

Students will study both modern and historic materials and methods of construction and the use of substitute materials and techniques in historic preservation projects.

Course Learning Outcomes

After completing this course, students will be able to:

1. Have a working knowledge of materials and methods as they are used at the trade level.
2. Use resources for identifying materials and methods appropriate for the construction project.
3. Analyze to determine the material's function and utility for cost effective performance in construction projects.
4. Organize building materials and components for sequencing construction activities to maximize cost effective performance.

Methodology

This course meets for one three hour session per week. Classes will consist of lecture and lab. Lectures will consist of presentations, discussions, and demonstrations. Lab will be used for review and work time, providing hands-on experience. Students will be required to do a number of exercises throughout the term. Students should expect to spend three hours per week outside of class time to complete work. Field trips may be scheduled.

Prerequisite

None

Required Materials

Sketch pad and pencils.

Reading Material

To be assigned in class.

Supplemental Material

The following material is available in the CAD lab:

- *Architectural Graphic Standards* CD-ROM, Ramsey and Sleeper, v.4, 2007

The following books are available in the library:

- *The Preservation of Historic Architecture*, Department of the Interior, Lyons Press, 2004.
- *Building Construction Illustrated*, 4th ed., Francis Ching, Wiley, 2008.
- *Graphic Guide to Frame Construction*, 3rd ed., Rob Thallon, Taunton Press, 2009

Online

Blackboard: <http://bb4.clatsopcc.edu>

Email/SkyDrive: <http://home.live.com/>

Email Address: as specified in MyCCC

Login information:

UserName: first initial + last name + last four digits of student ID (e.g. jdoe9999)

Password: birthday in format YYYYMMDD (e.g. 19881204)

Grading

Grading will be determined as follows:

- Assignments 1 10%
- Exam 1 20%
- Assignments 2 10%
- Exam 2 20%
- Project 30%
- ePortfolio 10%

Attendance and Participation

Attendance and participation in all classes is strongly recommended and necessary for successful completion of the course and learning of material. Class times will be used to introduce and discuss material, provide students with hands-on work time and allow interaction between students. Class participation will be part of grading.

Instructor Information

Kirk Garrison

email: kgarriso@pcc.edu

Lucien Swerdloff

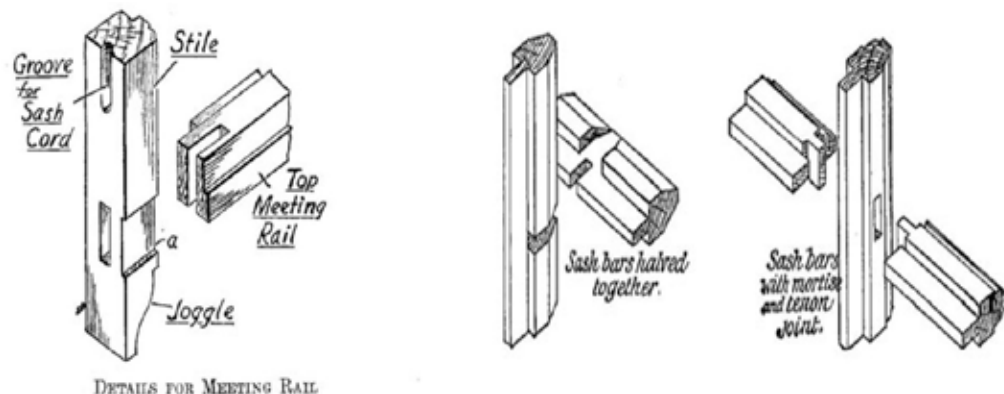
Office Hours: MW 1:00-2:00 – IMTC Computer Lab (MERTS Campus)

TT 4:00-5:00 – Art 102 (Main Campus)

F 12:00-1:00 – Art 102 (Main Campus)

Phone: 503.338.2301

Email: lswerdloff@clatsopcc.edu



SCHEDULE

1. Introduction; Intro to Historic Materials and Methods; Project/ePortfolio Description

Tue 7 January: course introduction, The CSI Format, Secretary of the Interior's Standards, Form and Structure, Project assignment, ePortfolio introduction

Instructor: Swerdloff

2. Research Methods; Wood

Tue 14 January: Library resources, Wood in construction

Guest Presenters: Candice Watkins, Ed Overbay

3. Doors and Windows; Project/ePortfolio Proposal

Tue 21 January: Doors and Windows: materials and construction, project proposal and ePortfolio outline due

Class will meet at Bergerson Cedar Windows in Hammond

Guest Presenter: Ray Bergerson

4. Plaster

Tue 28 January: History, properties and techniques of plaster

Guest Presenter: Brian Peterson

5. Thermal and Moisture Protection

Tue 4 February: Thermal and moisture protection for buildings

Guest Presenter: Anthony Stoppiello

6. Project Review; Exam 1

Tue 11 February: Student presentations/discussions, ePortfolio review, Exam 1

Instructor: Swerdloff

7. Introduction to Modern Materials and Methods; Sitework, Masonry, Concrete

Tue 18 February: The CSI Format, CSI Division 1-General Requirements, CSI Division 2-Sitework, CSI Division 3-Concrete

Instructor: Garrison

8. Concrete, Metals

Tue 25 February: CSI Division 3-Concrete, CSI Division 5-Metals

Instructor: Garrison

9. Wood and Plastic

Tue 4 March: CSI Division 6-Wood and Plastics

Instructor: Garrison

10. Finishes; Exam 2

Tue 11 March: CSI Division 9-Finishes, Exam 2

Instructor: Garrison

11. Project Presentations

Tue 18 March: Student presentations: project and ePortfolio

Instructor: Swerdloff

Note: The above schedule may be modified.