MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPARTMENT: CRPT  COURSE NUMBER: 1132

NUMBER OF CREDITS: 4 (2 lecture, 2 lab)

COURSE TITLE: Interior Finish I

CATALOG DESCRIPTION: This course covers the identification of various interior finish materials and their appropriate application, and proper installation. This includes insulation, drywall, interior doors, and all interior trim components, including closet shelving. Students will also learn stairway terminology, layout, and construction and gain hands-on experience by building various types of stairs.

AUDIENCE: First Year Carpentry Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)

Area: by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: Desire to learn through a combination of lecture and hand-on activities. Career interest in the building construction trade.

LENGTH OF COURSE: One semester

THIS COURSE IS USUALLY OFFERED:
Every other year ☐  fall ☐  spring ☒  summer ☐  undetermined ☐

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. Improve writing skills with the completion of required written assignments.
   b. Improve mathematical skills calculating linear measurements, dimensions, area, and volume measurements.
   c. Improve reading skills with the completion of required reading assignments.
2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. Interpretation of blueprints and building product specifications as they apply to construction methods and techniques.
   b. Demonstration by individuals to calculate statistics into current building situations.
   c. Decision making processes that involve recalling facts and specifics about given situations or problems encountered in building construction, evaluating the situation, and reaching a conclusion.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. Group problem solving, collaborative projects and individual demonstrations.
   b. Individual classroom assignments and interactive lectures.

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. Working in a team with persons of different race, gender, and cultural background.

TOPICS TO BE COVERED:
1. Types of insulation and their application.
2. R values of common building materials and insulation materials.
3. U values of common building materials and insulation materials.
4. The principles of conduction, convection, and radiation.
5. Condensation and how to control.
6. Attic ventilation systems and their function.
7. Vapor retarders and their function.
8. Types of drywall.
11. Styles and types of interior doors.
12. Installing interior doors.
13. Types of interior trim and methods of trimming doors and windows
14. Types of baseboard trim and their installation.
15. Types of closet shelving and installation methods.
16. Types of stairs and basic stair parts.
17. Calculating risers, treads, and stringer length that meet building code requirements.
18. Layout and cutting stair stringers.
19. Installing stair stringers, risers, and treads.

LIST OF EXPECTED COURSE OUTCOMES:
1. identify types of vapor retarder
2. identify types of insulations
3. calculate R-values for common building materials
4. identify types of ventilation products
5. identify products used for sound control
6. identify types of drywall
7. identify types of drywall finishing materials
8. identify drywall corner bead
9. identify tools used in application of drywall compound
10. measure, mark, and cut drywall using appropriate tools
11. demonstrate use of drywall square to measure and mark drywall
12. apply drywall compound using the appropriate tools
13. install corner bead on a drywall outside corner
14. apply drywall tape to drywall joints
15. install drywall using a screw gun
16. install drywall using a hammer and drywall nails
17. install fiberglass insulation
18. install rigid foam insulation
19. identify style of interior doors
20. identify types of interior trim
21. install interior door units
22. install interior trim
23. install closet shelving
24. identify unit rise and unit run
25. calculate riser height and tread width per building code requirements
26. identify pre-fabricated stair parts
27. identify different styles of stairs
28. layout and cut stringer for a given rise and run

LEARNING/TEACHING TECHNIQUES used in the course are:

- [x] Collaborative Learning
- [x] Problem Solving
- [ ] Student Presentations
- [ ] Interactive Lectures
- [x] Creative Projects
- [ ] Individual Coaching
- [x] Lecture
- [x] Films/Videos/Slides
- [ ] Demonstrations
- [ ] Other (describe below)
- [x] Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- [x] Reading
- [x] Oral Presentations
- [x] Textbook Problems
- [x] Group Problems
- [x] Other (describe below)
- [x] Tests
- [x] Worksheets
- [x] Papers
- [x] Individual Projects
- [x] Collaborative Project
- [x] Portfolio
- [x] Term Paper

EXPECTED STUDENT LEARNING OUTCOMES:

1. Describe the types of insulation materials available today.
2. Describe methods of controlling moisture problems.
3. Demonstrate general procedures for installing blanket, loose fill, and rigid insulation.
4. Select appropriate areas for insulation in a given structure.
5. Summarize the principles of conduction, convection, and radiation.
6. Explain the use of vapor retarders and demonstrate proper application.
7. Explain the principles of attic ventilation and identify common ventilation systems.
8. Identify types of drywall.
10. Identify tools used for drywall finishing.
11. Demonstrate proper techniques for finishing drywall.
12. Identify common styles of interior doors.
13. Identify profiles of interior wood trim and demonstrate methods of installation.
14. Demonstrate ability to properly hang a pre-hung interior door.
15. Demonstrate ability to install closet shelving.
16. Describe different types of stairs.
17. Identify and describe basic stair parts.
18. Calculate “rise-run-ratio”, number and size of risers and treads, and stairwell length.
19. Layout and cut stringers for a given stair rise and run.
20. Install stringers, risers, and treads for a given stairs.

**Veteran Services:** Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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*The information in this course outline is subject to revision.*