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.

DEPT. CRPT             COURSE NUMBER:  1135

NUMBER OF CREDITS:  2 (1 lecture, 1 lab)

COURSE TITLE: Exterior Finishing, Wall and Roof Covering

CATALOG DESCRIPTION: The exterior finish of a building includes the door and window units and all the materials that cover the roof and exterior. They must also give weather-tight protection to the roof and exterior walls.

AUDIENCE: Carpentry I students

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

Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

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 [X] 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. Exterior air and moisture barriers and their function.
2. Types of siding and proper application methods.
3. Types of roofing materials and proper application methods.
4. Styles of windows, window materials, and proper application methods.
5. Styles of exterior doors, door materials, and proper application methods.

LIST OF EXPECTED COURSE OUTCOMES:
1. identify roofing materials
2. identify siding materials
3. identify moisture barriers
4. identify window styles
5. identify window materials
6. identify window components
7. identify egress windows
8. identify exterior doors
9. identify overhead doors
10. identify air barriers
11. install wood siding
12. install vinyl siding
13. install steel siding
14. install roof edge
15. install asphalt shingles
16. install asphalt ridge shingles
17. install roofing felt
18. install windows
19. install exterior doors
20. install roof vents
21. install ridge vent
22. identify soffit materials
23. install aluminum soffit and fascia
24. install valley flashing
25. identify metal roofing
26. identify roll roofing
27. identify built-up roofing
28. identify rubber membrane roofing

LEARNING/TEACHING TECHNIQUES used in the course are:
- Collaborative Learning
- Problem Solving
- Student Presentations
- Interactive Lectures
- Creative Projects
- Individual Coaching
- Lecture
- Films/Videos/Slides
- Demonstrations
- Other (describe below)
- Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
- Reading
- Tests
- Individual Projects
- Oral Presentations
- Worksheets
- Collaborative Projects
- Textbook Problems
- Papers
- Portfolio
- Group Problems
- Term Paper
- Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:
1. List exterior air and moisture barriers commonly available and their function.
2. Describe common siding products and their proper application.
3. Demonstrate proper application of horizontal lap siding products.
4. Describe covering materials commonly used for sloping roofs.
5. Define roofing terms.
6. Demonstrate how to prepare a roof deck and properly apply asphalt shingles.
7. Select appropriate roofing materials for various slopes and conditions.
8. Identify window styles and discuss proper installation methods.
9. Identify exterior door styles and discuss proper installation methods.
10. Demonstrate proper methods of installing windows and exterior doors.

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.