

COLLEGE OF THE MARSHALL ISLANDS
COURSE OUTLINE COVER SHEET

CIP No. _____
VCARP 201
 Alpha Number

Roof Framing & Exterior Finishing
 Course Title

Course Description

Covers types of roofs, parts of roof systems, layout terms, rafter sizing and layout, and use of framing square. Roof framing principles and applications, gable hip and intersecting roof designs will be emphasized. Also includes selection and installation of sidings and roof materials, windows, exterior door, cornice work, and other exterior applications.

Course prepared by: Diane Myazoe-deBrum July/2010

Vocational & Continuing Education

	Hours per Week	Number of Weeks	Total Hours	Credits
Lecture	1	_____	15	_____
Laboratory	6	_____	90	_____
Clinical	_____	_____	_____	_____
Seminar	_____	_____	_____	_____

Total Credit Hours 3

Purpose of Course: Degree Requirement _____
 Degree Elective _____
 Certification X
 Developmental _____
 Other _____

Prerequisite(s) VCARP 101
VCARP 102

Mary Ann Jackson 01/08/2013
 Signature, Curriculum Committee Chairperson Date

Keith L. Roberts 1/8/13
 Signature, Dean of Academic Affairs Date

[Signature] 1/8/13
 Vice President of Academic and Student Affairs Date

Last date reviewed or revised: _____

I. Roof Framing & Exterior Finishing
Course Title**II. Course Objectives****A. General Outcomes**

Students who complete this course will:

1. Identify types of roofs, and roof systems and its applications (VCARP 3, 4, 5)
2. Identify types of exterior finishing and applications (VCARP 3, 4)
3. Construct roofs and exterior finishing (VCARP 3, 4)

B. Student Learning Outcomes

Upon completion of this course, the student will be able to:

1. Identify types of roofs and roof systems and its applications
 - a. Identify types of roofs, and discuss their purposes and appearances
 - b. Identify roof materials, name roof parts, and discuss their purposes
 - c. Interpret roof framing plan and sketch working drawing
2. Identify types of exterior finishing and applications
 - a. Identify and discuss different types of windows and doors
 - b. Identify and discuss different types of exterior finishing
3. Construct roofs and exterior finishing
 - a. Layout and cut to size roof framing members
 - b. Construct truss, install roof framing members and roofing
 - c. Layout, cut and construct window and door frames
 - d. Install doors and windows
 - e. Install exterior wall
 - f. Construct and erect cornice
 - g. Estimate roofing and roof framing materials, material cost, and labor cost

III. Course Content

Students will be provided with an introduction to the fundamentals of roof framing and exterior finishing.

1. Types of roof
2. Roof framing
3. Drawings
4. Layout & cutting
5. Roof Construction
6. Windows & doors
7. Window & door frame
8. Installation
9. Exterior finishing
10. Methods
12. Types of cornice

IV. Methods of Instruction

1. Lecture
2. Discussion
3. Demonstration
4. Laboratory work
5. Field trips (site observation)
6. Apprenticeship

V. Equipment and Materials

1. Hand tools
2. Overhead projector
3. Transparencies
4. Shop Equipment
5. Power tools
6. TV & DVD

VI. Suggested Methods of Evaluation

1. Tests
2. Quizzes
3. Midterm and final
4. Homework
5. Labs
6. Projects

Letter grades will be assigned per CMI Grading System.