COLLEGE OF THE MARSHALL ISLANDS
COURSE OUTLINE COVER SHEET

CIP No. 46.0201
VCARP 103 Blueprint Reading for Construction
Alpha Number

Course Description
Designed to help students gain skills in blueprint reading. Covers the importance and use of blueprint reading in construction. Use of measuring tools, mathematics, lines, sketching, pictorial drawings, orthographic projection drawings, dimensioning techniques, construction materials, specifications, reading plans, and interpretation are also included.

Course prepared by: Diane Myazoe-deBrum July/2010

Vocational & Continuing Education

<table>
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<tr>
<th>Hours per Week</th>
<th>Number of Weeks</th>
<th>Total Hours</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
<td>16</td>
<td>48</td>
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<td>Laboratory</td>
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<td>Clinical</td>
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<td>Seminar</td>
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Purpose of Course: Degree Requirement
Degree Elective
General Education
Certification X
Developmental
Other

Total Credit Hours 3

Prerequisite(s)

Signature, Curriculum Committee Chairperson
Nov 25, 2013

Signature, Dean of Academic Affairs
11/25/13

Vice President of Academic and Student Affairs
11/25/13

Last date reviewed or revised: October 2013
I. **Blueprint Reading for Construction**  
**Course Title**

II. Course Outcomes  

A. General Learning Outcomes  

The student will:  
1. Recognize architectural, mechanical, electrical, and sheet metal blueprints. (VCARP 3, 5)  
2. Read and understand blueprints and make simple sketches (VCARP 3, 5)

B. Student Learning Outcomes  

Upon completion of this course, the student will be able to:  
1. Identify various types of blueprints  
2. Use skills to understand blueprints and make simple sketches for projects and discussion

III. Course Content  

Students will read and understand blueprints.  

1. Types of blueprints  
2. Information contained on blueprints  
3. Methods of drawing objects  
4. Systems of presenting numbers  
5. Letterings  
6. Drawing formats  
7. Basic mathematics  
8. Measuring devices  
9. Alphabet of lines and drawing constructions  
10. Reading two dimensional drawings  
11. Sketching two dimensional drawings  
12. Sketching three dimensional drawings  
13. Architectural drawings  
14. Electrical drawings  
15. Pipe drawings  
16. Structural drawings

IV. Methods of Instruction  

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

V. Equipment and Material  

1. Number 2 pencil  
2. Architect’s scale  
3. Engineer’s scale  
4. Protractor
5. Drawing paper  
6. Blueprints  
7. TV & DVD  
8. Transportation

VI. Suggested Methods of Evaluation

1. Tests  
2. Quizzes  
3. Homework  
4. Projects

Letter grades will be assigned per CMI Grading System.