

Mathematics for Mariners I

Course Title

CIP No. 27.0199

MART 105

Alpha Number

I. Course Outcomes

A. General Learning Outcomes

The student will:

1. Solve basic arithmetic problems (APP 2)
2. Apply essential math formulas and units to shipboard use (APP 2, 3)

B. Student Learning Outcomes

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

1. Add, subtract, multiply and divide whole numbers and fractions
2. Solve typical shipboard math problems using standard formulas and notations

II. Course Content

This course introduces students to nautical math.

1. Basic Mathematics
2. Mathematical applications for navigation, deck seamanship and engineering

III. Methods of Instruction

1. Classroom lecture
2. Independent and group study and practice
3. Computer-based learning systems

IV. Equipment and Materials

1. Texts and reference materials
2. Training videos
3. Computers

V. Suggested Methods of Evaluation

1. Class participation
2. Quizzes
3. Examinations

Letter grades will be assigned per CMI Grading System.

Approved by CAC 02/19/2014