College of the Marshall Islands
COURSE OUTLINE

CIP No. 27.0399

EDU 250 Mathematics for Elementary Teachers II
Alpha Number

Course Title

Course Description
Introduces set theory, number theory, real numbers, statistics, geometry and measurements with emphasis on practical applications and use of varied strategies in problem solving. Students will develop methods for teaching mathematics and apply these in the elementary classroom. Second of a two-course series.

Course prepared by: Education and Mathematics Department October 2009

<table>
<thead>
<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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<tr>
<td>Laboratory</td>
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<td>Clinical</td>
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<td>Seminar</td>
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Total Credit Hours 3

Purpose of Course:
Degree Requirement _X_
Degree Elective
General Education
Certification
Developmental Education
Community Education
Other

Prerequisite(s) C or better in EDU 150

Signature, Curriculum Committee Chairperson
Date

Signature, Dean of Academic Affairs
Date

Signature, Vice President of Academic Affairs
Date

Last Date reviewed or revised: Dec 2015
I. Mathematics for Elementary Teachers II
   Course Title: EDU 250

II. Course Outcomes
   A. General Learning Outcomes
      The student will:
      1. Use reasoning to solve mathematical problems (EDU 1, 5)
      2. Demonstrate practical mathematical skills (EDU 1, 4)
      3. Apply mathematical skills in the context of problem solving (EDU 4, 5)
      4. Implement hands-on activities for teaching mathematical concepts (EDU 4, 5)

   B. Student Learning Outcomes
      Upon completion of this course, the student will be able to:
      1. Solve theoretical problems using deductive and inductive reasoning
      2. Create and solve problems using logical and practical methods, models and current practices
      3. Select and apply relevant practical problem solving skills
      4. Plan and present a lesson that addresses the RMI Mathematics Curriculum standards

III. Course Content
   The course reexamines practical and theoretical mathematics in context to elementary school level and real world situations.
   1. Set theories
   2. Number theories
   3. Real numbers
   4. Statistics and probability
   5. Geometry
   6. Measurements

IV. Methods of Instruction
   1. Field observation and practice
   2. Cooperative learning
   3. Journal writing
   4. Hands-on activities
   5. Demonstrations/presentations

V. Equipment and Materials
   1. Manipulative
   2. LCD projectors
   3. Rulers
   4. Compasses
   5. Protractors
   6. Graph paper
7. Calculators
8. RMI Mathematics Curriculum Standards

VI. Suggested Methods of Evaluation

1. Quizzes
2. Homework
3. Assignments
4. Class participation
5. Final examination
6. Lesson demonstration
7. Activity projects

Letter grades will be assigned per CMI Grading System.