

**COLLEGE OF THE MARSHALL ISLANDS
COURSE OUTLINE**

CIP No. 27.0399

**EDU 250
Alpha Number**

**Mathematics for Elementary Teachers II
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

	Hours per Week	Number of Weeks	Total Hours	Credits
Lecture	<u>3</u>	<u>16</u>	<u>48</u>	<u>3</u>
Laboratory	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Clinical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Seminar	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Field	<u> </u>	<u> </u>	<u> </u>	<u> </u>

			Total Credit Hours	<u>3</u>
Purpose of Course:	Degree Requirement	<u>X</u>		
	Degree Elective	<u> </u>		
	General Education	<u> </u>		
	Credit Certification	<u> </u>		
	Developmental	<u> </u>		
	Community Education	<u> </u>		
	Vocational Education	<u> </u>		
	Adult Basic Education	<u> </u>		

Distribution Area:	Humanities	<u> </u>
	Social Sciences	<u> </u>
	Mathematics (Credit)	<u> </u>
	Science	<u> </u>

Prerequisite(s) C or better in EDU 150

Signature, Curriculum Committee Chairperson

Date

Signature, Dean of Academic Affairs

Date

Signature, Vice President of Academic and Student Affairs

Date

Last Date reviewed or revised: December 2, 2019

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II. Student Learning Outcomes

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

1. Solve theoretical problems using deductive and inductive reasoning (ASEE Knowledge of Curriculum, ASEE Critical Thinking)
2. Create and solve problems using logical and practical methods, models, and current practices (ASEE Knowledge of Curriculum, ASEE Critical Thinking)
3. Select and apply relevant practical problem solving skills (ASEE Classroom Methods, ASEE Knowledge of Curriculum, ASEE Critical Thinking)
4. Plan and present a lesson that addresses the RMI Mathematics Curriculum Standards (ASEE Classroom Methods, ASEE Knowledge of Curriculum)

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.