

CMI COURSE CURRICULUM COURSE ACTION

Course Title: Basic Mathematics **Alpha Number:** Math 089 **CIP No.** 32.0104

Type of Action:

☐ New Course (attach narrative justification for course creation)

☐ Substantive Revision (attach narrative justification for changes, including assessment and/or achievement data and feedback from the advisory committee if relevant)

Select all that apply:

- ☐ Change in number of credit hours
☐ Change in prerequisite
☐ Substantive change in course content
☐ Change to SLOs ☒ Other: Hybrid

☒ Non-substantive Revision

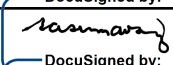
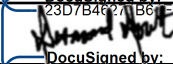
Select all that apply:

- ☐ Change in Alpha Number or Title (unless letter abbreviation has not previously been used)
☐ Edit to course description that does not alter the substance of the course
☐ Change to recommended texts
☒ Other: Add the hybrid course mode

☐ Reinstitution of Archived Course (attach narrative justification for reinstitution, including evidence of demand, evidence of capacity, feedback from the advisory committee if relevant, and commentary that speaks directly to the reasons the course was initially archived)

☐ Reaffirmation of Course (only allowable if course completion rate exceeds ISS, the benchmark has been met for the majority of SLO assessments, and there is no evidence of inequitable levels of achievement across subpopulations; attach evidence)

Approvals:

	Name	Signature	Date
Department Chair	Dr. Rosalinda Sumaoang	 DocuSigned by: 23D7B46271B8...	7/1/2025
Curriculum Committee Chair	Desmond Doulatram	 DocuSigned by: 8A4E9FDD06E14D5...	7/10/2025
Dean	Edward Alfonso	 DocuSigned by: 1C652FE7AC1E4C5...	7/11/2025
VPASA	Dr. Elizabeth Switaj	 89BEB3BDDC23455...	7/14/2025

CMi COURSE OUTLINE**CIP No.** 32.0104**Version No.** 002Math 089Basic Mathematics**Alpha Number****Course Title****Previous Number:**

Course Description: Provides a comprehensive study of foundational mathematical skills which should provide a strong mathematical underpinning for further study. Topics include principles and applications of decimals, fractions, the number line, ratio, signed operations, properties of operations, order of operations, numerical factoring, perimeter, and area.

Course originally prepared by: Edward M. Alfonso/Dr. Adedayo Ogunmokun STEM September/2023

Most recent revision by: Edward M. Alfonso/Dr. Adedayo Ogunmokun STEM March/2025

Course mode(s): ☒ Face to Face (including Zoom) ☒ Hybrid ☐ Distance Education

Credits calculated by: ☒ Credit Hour ☐ Clock Hour

Contact Hours: 60

Type	No. of Hours	No. of Credits	Maximum No. of Hours Online
Lecture/Seminar/Workshop	60	4	16
Clinical			
Practicum			
Lab			
Fieldwork			
Studio Time			
Total	60	4	16

Purpose(s) of Course: Degree Requirement _____
Degree Elective _____
General Education _____
Credit Certification _____
Developmental ☒ _____
CTE/TVET _____
ABE/Adult HS _____

Distribution Area: Humanities _____
Social Sciences _____
Mathematics (Credit) _____
Science _____

Prerequisite: Math Placement

Student Learning Outcomes: Upon completion of this course, students will be able to:

1. Perform basic operations involving whole numbers, fractions and decimals.
2. Simplify numerical expressions involving rational numbers.
3. Solve ratios and proportions problems.
4. Compute the perimeter and area of basic geometric figures.
5. Solve word problems using basic operations and the four problem solving steps in Polya's How to Solve It.

SLO Mapping:

Prerequisite Course SLO	Linked SLO from this Course	Explanation
None	None	

Links to Program Learning Outcomes:

SLO	Linked PLO	I/P/M	Explanation of Link
1-4	PLO 1- Equations and Inequalities DEV Mathematical Reasoning	I	Students will be taught how to perform basic operations involving equations with whole numbers, fractions, decimals, percentages, ratios, basic geometry and measurement.
5	PLO 4- Word Problems DEV Solving Word Problems	I	Students will be taught how to solve word problems using basic operations and the four problem solving steps in Polya's How to Solve It.

Course Content: Students in this course will be introduced to:

1. Whole numbers
2. Fractions
3. Decimals
4. Percent
5. Ratio and Proportion
6. Measurements
7. Perimeter and area of plane geometric figures

Higher Order Thinking Skills: Student in this course will experience:

- ☒ Analyzing the basic elements of an idea, experience, or theory
- ☒ Making judgments about the value or soundness of information, argument, or method
- ☐ Applying theories or concepts to practical problems or in new situations

Recommended Methods of Instruction

- ☒ Demonstration
- ☒ Lecture
- ☒ Small group discussion
- ☒ Class discussion
- ☒ Audio-Visual Aids
- ☐ Laboratory
- ☒ Supervised Practice
- ☐ Field Trips
- ☒ Other:

Recommended Assessment Tool Type(s):

- ☐ Case Study
- ☐ Critique of Performance
- ☒ Exam/Quiz In-Course
- ☐ Exam/Quiz Standardized (attach narrative describing development and validation process)
- ☐ Focus Group
- ☒ Group Project
- ☒ Individual Project
- ☐ Observation
- ☐ Portfolio Review
- ☐ Presentation
- ☐ Simulation
- ☐ Skill Performance
- ☐ Supervisor Evaluation
- ☐ Survey
- ☒ Written Assignment

Required Forms of Regular and Substantive Interaction for Hybrid or Distance Education Courses (Selected at Least Two):

- ☒ Direct instruction through:
 - ☒ Live video lectures
 - ☐ Live audio-only lectures
 - ☒ Live text chats
- ☐ Assessing or providing feedback on a student's coursework
- ☒ Providing information or responding to questions about the content of a course or competency through:
 - ☒ Live video discussions
 - ☐ Live audio-only discussions
 - ☒ Live text chats
 - ☒ Asynchronous message boards or text chats
- ☐ Facilitating a group discussion regarding the content of a course or competency through:
 - ☐ Live video discussions
 - ☐ Live audio-only discussions
 - ☐ Live text chats
 - ☐ Asynchronous message boards or text chats
- ☐ Other, specify:

Note: for distance education courses, if only two are selected, both must occur within the course on a weekly basis. If more than two are selected, the instructor may choose which two are used during each week.

Equipment and Materials:

1. Recommended texts: Tussy, Alan, and Diane Koenig. Basic Mathematics for College Students with Early Integers. [6th edition]. Cengage. ISBN-13: 9781337618403
2. Equipment/Facilities: Computer lab/Software like Moodle
3. Materials and Supplies: Whiteboard Rulers/Math Manipulatives

Connection to College Mission:

The College of the Marshall Islands will provide our community with access to quality, higher and further educational services, prioritize student success through engagement in relevant Academic, Career and Technical Education, and be a center for the study of Marshallese Culture. It will also provide intellectual resources and facilitate research specific to the needs of the nation. *EC approved 4th Nov, 2020. BOR approved 1st December, 2020*

Most of, if not all, the degrees at CMI require success in Credit Level Math before students can graduate with quality, higher and further education qualifications. Many students however struggle with passing Math and this is a common (if not the main) reason for dropout or non-completion of degree requirements. This course supports the mission of the college in prioritizing students' success by providing developmental classes to prepare them for Math success.

Connection to Department Mission

The mission of the Science, Technology, and Mathematics (STeM) Department is to provide science, technology and mathematics courses to support academic programs and prepare students seeking careers in marine science or an advanced education in a STeM discipline. *Approved by CC on March 5, 2018. Approved by IEC on March 14, 2018.*

This course supports the STEM Department's mission by explaining basic math concepts to students which then allows them to progress to higher level math culminating in Math Credit Level success in support of academic programs in marine sciences and other degrees. Also, it will help the students to be more focused on basic operations, manual computations and scientific calculation. The focus will be on bridging the gap between the Basic Mathematics and the Foundations of Mathematics topics.