# THE COLLEGE OF THE BAHAMAS
## Course Outline

<table>
<thead>
<tr>
<th>Title: Pre-College Preparatory Mathematics</th>
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<tbody>
<tr>
<td>Abbreviation and Number: MATH044</td>
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<tr>
<td>AB Paper No.: 13-41</td>
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<tr>
<td>School: Continuing Education and Extension Services</td>
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<tr>
<td>Department: Academic Upgrading</td>
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<tr>
<td>Credits: 0</td>
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<tr>
<td>Course Sequence: ( ) Fall ( ) Spring (X) Fall and Spring</td>
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<tr>
<td>Hours Per Week: (3) Lecture ( ) Seminar ( ) Laboratory ( ) Studio ( ) Kitchen</td>
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<tr>
<td>Pre-requisite(s): None</td>
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<td>Co-requisite(s): None</td>
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### COURSE DESCRIPTION
This is a Pre-College Preparatory Mathematics course. With the aid of technology, students study the fundamentals of mathematics.

### SPECIFIC OBJECTIVES
Upon successful completion of this course, students will be able to
1) define the meaning of numbers and how they relate to one another;
2) use operations related to whole numbers and fractions;
3) make estimates;
4) apply basic concepts of probability;
5) apply appropriate techniques, tools and formulas to determine measurements;
6) identify angles, solid figures and patterns;
7) apply simple transformations and use symmetry;
8) formulate number sentences;
9) use properties of arithmetic operations; and
10) demonstrate proficiency in the use of an educational software.

### COURSE CONTENT

#### I. Numbers and Numeration
A. Place value and notation
B. Meanings and uses of fractions
C. Prime and composite
D. Equivalent names for whole numbers
E. Equivalent names for fractions, decimals and percents
F. Comparing and ordering numbers

#### II. Operations and Computation
A. Whole number procedures
   i. Addition
   ii. Subtraction
   iii. Multiplication
   iv. Division
B. Fraction procedures
   i. Addition
   ii. Subtraction
   iii. Multiplication
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iv. Division
C. Estimation
D. Order of Operations using up to two operations

III. Data and Chance
A. Collection
B. Representation
C. Data Analysis
D. Probability
   i. Quantitative
   ii. Qualitative

IV. Measurement
A. Length
B. Weight
C. Angles
D. Area
E. Perimeter
F. Units
G. Coordinate system

V. Geometry
A. Lines and angles
B. Plane and solid figures
C. Transformation
D. Symmetry

VI. Patterns, Functions and Algebra
A. Patterns and functions
B. Algebraic notation
C. Solution of number sentences
D. Properties of arithmetic operations

ASSESSMENT
Assignments (at least 6 assignments/quizzes in total)……………. 30%
Two In-Semester Examinations (20% each) ……………………. 40%
Final Examination……………………………………………….. 30%
TOTAL……………………………………………………………..100%

REQUIRED RESOURCE
Matheletics Access Code

REQUIRED TEXT
Course Packet
SUPPLEMENTARY READINGS/MATERIALS

WEBSITES
www.matheletics.com (Matheletics)
www.wiziq.com/tutorials/improve-student-success-developmental-mathematics (Improve Student Success Developmental Mathematics)