<table>
<thead>
<tr>
<th>Course Abbreviation &amp; Number:</th>
<th>MATH 0997</th>
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<tbody>
<tr>
<td><strong>Course Title:</strong></td>
<td>Support for Quantitative Reasoning</td>
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<tr>
<td><strong>Credit Hours:</strong></td>
<td>1 semester hour</td>
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<td><strong>Prerequisites:</strong></td>
<td>Placement or successful completion of Math 0987 or Math 0989 with C or better in either course.</td>
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<td><strong>Co-requisites:</strong></td>
<td>Math 1001 Quantitative Reasoning</td>
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**Course Description:**
This course is intended to provide co-requisite support for students requiring remediation in mathematics while they are enrolled in MATH 1001-Quantitative Reasoning. This course is a supplement to MATH 1001 and designated as a support to students taking Quantitative Reasoning concurrently. Topics covered will be prerequisite skills that are necessary for success in MATH 1001. The course content will focus on developing mathematical maturity through conceptual understanding and mastery of foundational skills. Enrollment in MATH 1001 is mandatory.

**Expected Educational Results:**
As a result of completing this course students will be able to:
1. Perform operations with real numbers.
2. Solve linear equations in one variable, including proportions.
3. Translate English phrases and sentences into algebraic expressions and equations.
4. Evaluate algebraic expressions and functions for given values of the variable.
5. Read and interpret bar, line, and circle graphs.
6. Apply necessary calculator skills.
7. Plot points and graph lines on the Cartesian coordinate system.
8. Round whole numbers and decimals to a given place value.
10. Apply problem solving skills.
11. Apply square root property and find the square root of a number.
12. Know and apply basic geometric formulas.
13. Simplify fractions.

### General Educational Outcomes:

Demonstrate the ability to interpret and analyze quantitative information; to apply mathematical principles and techniques; and to use mathematical models to solve applied problems.

- Demonstrate an understanding of basic arithmetic and algebraic principles.
- Read and interpret bar, line, and circle graphs.

### Course Content:

1. Real Numbers  
2. Algebraic Expressions  
3. Principles of basic geometry  
4. Linear equations in one and two variables  
5. Calculator usage  
6. Bar, line, and circle graphs

### Assessment of Outcome Objectives

#### Course Grade:

The course grade will be determined by the individual instructor using a variety of evaluation methods. A portion of the course grade will be determined through the use of frequent assessment using such means as tests, quizzes, projects, or homework as developed by the instructor. A portion of the evaluation process will require the student to demonstrate skill in writing correct mathematics. A comprehensive final examination is required. The final examination must count between ten percent and twenty-five percent of the course grade.

#### Course Assessment:

The MCSE discipline will determine an assessment schedule. An appropriate assessment instrument will be determined by the Math 1001/0997 committee.

#### Use of Assessment Findings:

The Math 1001/0997 committee, or a special committee appointed by the Academic Group, will analyze the results of the assessment and determine implications for curriculum changes. The committee will prepare a report for the Academic Group summarizing its findings.

#### Last Revised:

EFFECTIVE DATE: Fall 2015  
APPROVED DATE: January 2015