**Course Description:**

The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. (3 Lec.)

**Prerequisite**

An appropriate assessment test score.

**Corequisite/Concurrent**

This is a corequisite course and requires continuous concurrent enrollment with MATH 1332.

**Textbook and Other Course Materials:**

2. ALEKS Access code required.
3. Calculator: A scientific calculator required. A graphing calculator (e.g. TI-83 plus/ TI-84 plus) is recommended.
Student Learning Outcomes
Upon successful completion of this course, students will:

1. Use appropriate symbolic notation and vocabulary to communicate, interpret, and explain mathematical concepts.
2. Define, represent, and perform operations on real numbers, applying numeric reasoning to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
3. Use algebraic reasoning to solve problems that require ratios, rates, percentages, and proportions in a variety of contexts using multiple representations.
4. Apply algebraic reasoning to manipulate expressions and equations to solve real world problems.
5. Use graphs, tables, and technology to analyze, interpret, and compare data sets.
6. Construct and use mathematical models in verbal, algebraic, graphical, and tabular form to solve problems from a variety of contexts and to make predictions and decisions.

Grading Policy: homework 40%, exams 40%, attendance 20%

Grading Rationale: A 90-100%, B 80-89%, C 70-79%. F 0-69%

Final Examination:
A comprehensive, departmental final examination, which will represent at least 25% of the class grade, will be administered in all Developmental Mathematics for Quantitative Reasoning classes.

Policy on Missed Tests and Assignments: A student can make-up an Exam at the Testing Center for reasons of extenuating circumstances. Examples of extenuating circumstances are death in the family, excused illness (hospitalization or note from doctor), Eastfield athlete and/or military deployment.

Attendance Policy: You are expected to regularly attend all classes in which you are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. Attendance and class participation is very important in an eight week class, each absence deducts 3 points of up to 20% of your final grade.

Standard of Conduct/Classroom Etiquette:
No food, drinks or tobacco products are allowed in Eastfield College classrooms. Cell phones must be silenced and out of sight during class. Calculators are recommended in class. TI-84 or similar are allowed.

ADDITIONAL RESOURCES
The Math Spot (https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx) provides tutoring in Mathematics and Developmental Mathematics. Students are encouraged to take advantage of this
service for additional help in their course work. The Math Spot is located in room L200, and the phone number is 972-860-7174. Visit the link above for more information on tutors, hours of operation and policies. In addition, TI-84 calculators are available for daily check-out in the library.

COURSE OUTLINE:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Sections</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisite Content</td>
<td>--</td>
<td>Course Readiness Material</td>
</tr>
<tr>
<td>Ch. 1</td>
<td>1.1-1.3</td>
<td>Problem Solving</td>
</tr>
<tr>
<td>Ch. 2</td>
<td>2.1-2.4</td>
<td>Set Theory.</td>
</tr>
<tr>
<td>Ch. 5</td>
<td>5.1-5.6</td>
<td>The Real Number System</td>
</tr>
<tr>
<td>Ch. 6</td>
<td>6.1-6.3</td>
<td>Topics in Algebra</td>
</tr>
<tr>
<td>Ch. 8</td>
<td>8.1,8.2</td>
<td>Measurement</td>
</tr>
</tbody>
</table>

Revised: 6/21/19